

Proposal Summary

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| 1. IRWM Region(s): | Coachella Valley |
| 2. Funding Area(s): | Colorado River Funding Area |
| 3. Applicant Name: | Coachella Valley Water District (CVWD) |
| 4. Eligible Applicant Type: | Public Agency |
| 5. Proposal Title: | Coachella Valley 2019 IRWM Implementation Grant Proposal |
| 6. Applicant Point of Contact (POC) Information (name, title, organization, phone, email): | |

Mike Nusser, Water Resources Associate, CVWD, (760) 398-2661, mnusser@cvwd.org

7. Provide Proposal Map (show Funding Area and regional boundaries, project location(s) etc.)
8. How does the proposal support the overall intent of IRWM as outlined in Section 1 of the 2019 Guidelines and the IRWM Planning Act (Water Code 10531)? Discuss coordination and/or collaboration within and between agencies, regions, and/or Funding Areas, and any efficiencies or mutual solutions realized.

Proposition 1, Chapter 7 is intended to improve regional water self-reliance and adapt water supply systems to the effects of climate change. DWR's 2019 IRWM Guidelines explain that the purpose is to 1) help water infrastructure systems with climate change adaptation; 2) provide incentives for water agencies throughout each watershed to collaborate in managing the region's water resources and setting regional priorities for water infrastructure; and 3) improve regional water self-reliance, while reducing reliance on the Sacramento- San Joaquin Delta. Further, the IRWM Grant Program is designed to encourage integrated regional strategies for management of water resources.

SUPPORTING THE INTENT OF IRWM AND PROPOSITION 1

The Coachella Valley IRWM Program encompasses almost the entirety of the Whitewater River watershed and its underlying Coachella Valley Groundwater Basin. The six projects in this 2019 Coachella Valley IRWM Implementation Grant Proposal together comprise a regional effort to sustainably manage the groundwater basin and deliver safe, affordable drinking water and sanitation to local residents. These six water projects together improve the region's water supply reliability, water self-reliance, and ability to adapt to climate change by protecting the local groundwater basin:

- One regional water conservation program (CV Water Counts Regional Conservation Program) will reduce groundwater pumping across two overdrafted, medium priority groundwater subbasins subject to SGMA, thereby improving the region's water supply reliability and self-reliance (a healthy groundwater basin). This program directly implements DWR's Program Preferences (Leverage Funds, Implement IRWM Plans with Greater Watershed Coverage, and Multiple Benefits) and Statewide Priorities (Make Conservation a Way of Life, Increase Regional Self Reliance, Manage/Prepare for Dry Periods, and Expand Groundwater Storage/Improve Groundwater Management).
- One recycled water project (Non-Potable Water System – Hovley Lane East) will also reduce groundwater pumping by offsetting those demands with recycled water, thereby improving the region's water supply reliability and self-reliance (a healthy groundwater basin). This project directly implements DWR's Program Preferences (Leverage Funds, Implement IRWM Plans with Greater Watershed Coverage, and Multiple Benefits) and Statewide Priorities (Increase Regional Self Reliance, Manage/Prepare for Dry Periods, and Expand Groundwater Storage/Improve Groundwater Management).
- Two water consolidation projects (Castro MHP Water Consolidation and East Coachella Valley Water Supply Project – Avenue 66 Phase 2B) will expand the region's domestic water systems to deliver safe drinking water to DACs, which reduces the number of pumpers in the groundwater basin and protects those DACs from continued degradation of the shallow aquifer associated with climate changes – thereby improving the region's water supply reliability and self-reliance (a healthy groundwater basin). These projects directly implement DWR's Program Preferences (Implement IRWM Plans with Greater Watershed Coverage, and Multiple Benefits) and Statewide

Note: Expand cells and/or tables as necessary to provide complete information on your proposal.

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Priorities (Increase Regional Self Reliance, Expand Groundwater Storage/Improve Groundwater Management, and Provide Safe Water for All Communities).

- Two sewer consolidation projects (Groundwater Quality Protection Program – Sub-Area M2-1 and East Coachella Valley Septic-to-Sewer Conversion – Monroe Street) will abandon degraded septic systems to connect to the region's sewer collection systems, which protects the groundwater basin from nitrate and pathogen loading, thereby improving the region's water supply reliability and self-reliance (a healthy groundwater basin). These projects directly implement DWR's Program Preferences (Implement IRWM Plans with Greater Watershed Coverage, and Multiple Benefits) and Statewide Priorities (Increase Regional Self Reliance, and Expand Groundwater Storage/Improve Groundwater Management).

COORDINATION AND COLLABORATION BETWEEN AGENCIES AND FUNDING AREA

The Coachella Valley Regional Water Management Group (CVRWMG) works together to collaboratively manage the region's groundwater basin and establish priorities for regional water infrastructure. To select this suite of six projects, the CVRWMG hosted a Planning Partners (their IRWM advisory group) meeting where all stakeholders were encouraged to submit projects for consideration. After the Call for Projects was closed, the CVRWMG then met on a monthly basis where projects were vetted and further developed for this grant application. Ultimately, those projects that rose to the top were ones that most directly implement the 2018 Coachella Valley IRWM/SWR Plan and its foundational groundwater management plans (the 2010 Coachella Valley WMP and the 2013 Mission Creek-Garnet Hill WMP, both GSP Alternative Plans approved by DWR). These six projects directly implement the resource management strategies outlined in the IRWM Plan (see Attachment 4). The regional conservation program and recycled water program are essential regional efforts to manage groundwater pumping volumes as the region's water purveyors continue to work toward basin sustainability. The four water and sewer consolidation projects were selected as the regional suite of priorities because of the dire need of these DACs to receive safe drinking water and sanitation services. The CVRWMG collaborated with one another, the Planning Partners, and other stakeholders via the DAC Infrastructure Task Force (hosted monthly by CVWD) to identify the priority systems for near-term consolidation.

The CVRWMG also attempted to collaborate with the other IRWM regions in the Funding Area on a regional allocation for the Round 1 funding available. Several conference calls were hosted by CVWD to discuss options for the allocation split, but ultimately Mojave IRWM region refused to participate in a final decision and the collaborative process was abandoned. Since then, the IRWM regions in the Funding Area (including Borrego Valley and Imperial regions) have been collaborating on a DAC Needs Assessment, under the Proposition 1 DAC Involvement grant. We have coordinated on outreach contacts, workshops, and list of DAC needs.

EFFICIENCIES AND MUTUAL SOLUTIONS

The six projects in this grant application will result in efficiencies and mutual solutions related to sustainable groundwater management. The five water purveyors in the Valley are collaborating on updates to the 2010 Coachella Valley WMP and the 2013 Mission Creek-Garnet Hill WMP, both GSP Alternative Plans approved by DWR. The regional conservation program and recycled water projects will directly reduce pumping volumes, which is mutually beneficial for all five purveyors. The four water and sewer consolidation projects will also protect groundwater quantity and quality (fewer wells and septic systems in the basin), which is mutually beneficial for all five purveyors. All of these projects together contribute to adaptation to climate changes (local vulnerabilities include less recharge water, reduced basin storage, higher water demands, and degraded groundwater quality) and strengthen regional water self-reliance.

HOW PROJECTS ADDRESS AB 1249 CONTAMINANTS

The two water consolidation projects address AB 1249 contaminants nitrate, arsenic, and hexavalent chromium in

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drinking water supplies. The Castro MHP project will provide a 5 µg/L reduction in hexavalent chromium through a connection to CWA's water system. The Avenue 66 Phase 2B project will reduce the arsenic concentration in Manuela Garcia MHP's drinking water by 24 ug/L through a connection to CVWD's water system. The two sewer consolidation projects address AB 1249 contaminant nitrate in the groundwater basin by removing the source of nitrate loading (degraded septic systems). The Sub Area M2-1 project will reduce the level of nitrate by about 42 mg/L and the Monroe Street project will remove 20 mg/L of nitrate from the water currently discharged to the groundwater basin.

HOW PROJECTS MEET HUMAN RIGHT TO WATER

By connecting the DACs to CWA and CVWD domestic water systems, the Castro MHP project and Avenue 66 Phase 2B project supports these communities in avoiding environmental injustices and promotes the Human Right to Water (Assembly Bill 685) by ensuring that the MHP residents have safe, clean, affordable and accessible water for human consumption, cooking and sanitary purposes.

9. Does the IRWM region(s) include areas that have contamination listed in AB 1249? ☒ Yes ☐ No

Table 1 - Proposal Overview							
Project Title		(a)		(b)	(c)	(d)	(e)
		Funding Category (choose one)		Address Climate Change?	Contribute to regional water self-reliance?	Address AB 1249 Contaminants?	Address Human Right to Water?
		DAC	General				
(a)	Castro MHP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(b)	CV Water Counts	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	ECVWSP Ave 66	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(d)	GQPP-Subarea M2-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(e)	ECVSSC - Monroe St	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(f)	NPW Sys. -Hovley	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(g)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(h)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(i)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(j)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(k)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(l)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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(m)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(n)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(o)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

* If no projects in the proposal contribute to regional water self-reliance, provide an attachment explaining why the requirements of Water Code 79741(c) are not applicable to your region(s).

** If the answer to Question 9 was "Yes", but no boxes in column (d) were checked, please provide an attachment to this form explaining why the application did not include such a project(s). Application is not complete unless this justification is provided.

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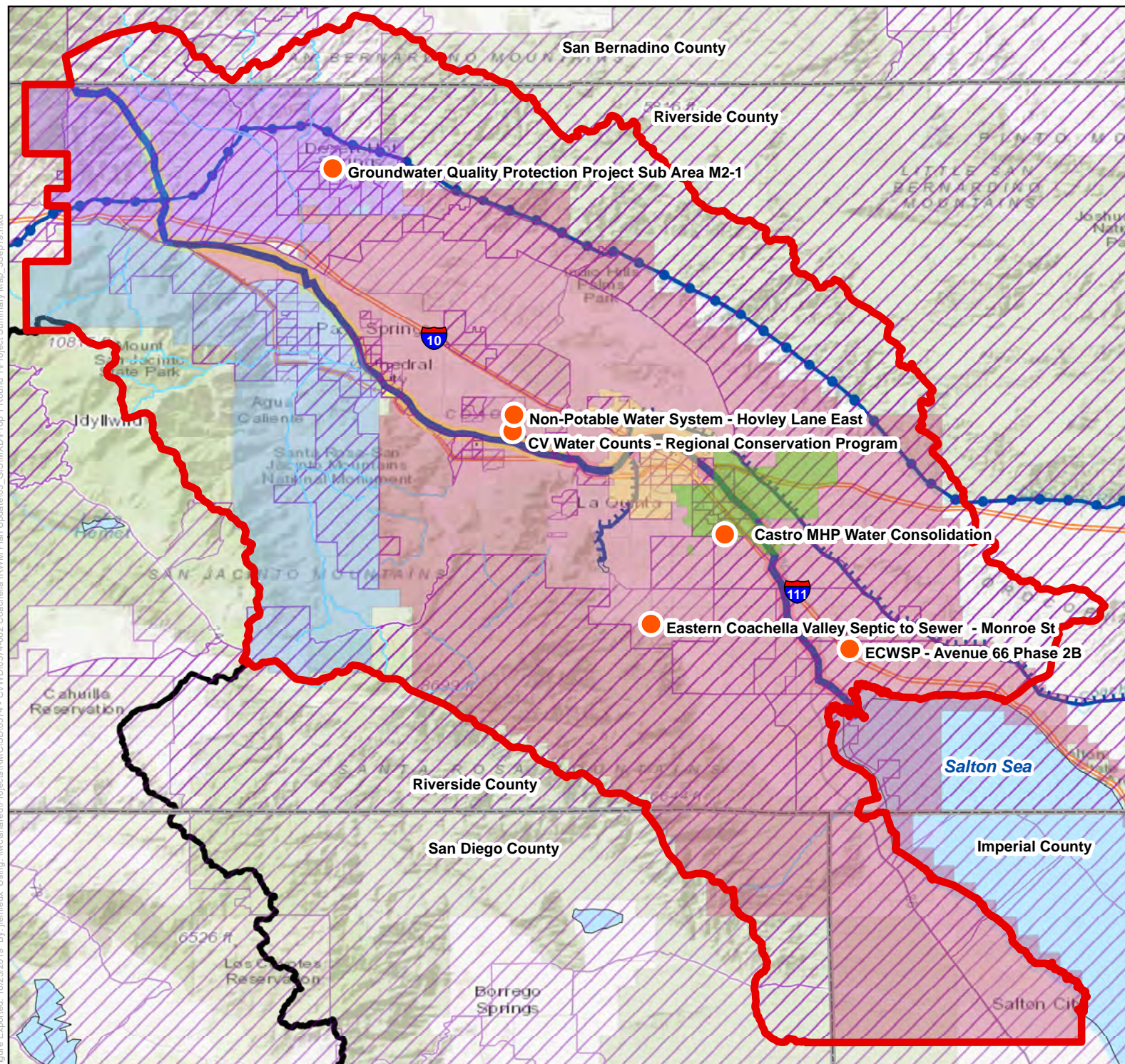
Table 2 - Proposal Budget						
Project Title		(a)	(b)	(c)	(e)	(f)
		Cost Share: Non-State Fund Source(s)	Requested Grant Amount	Total Cost	Other Cost Share	Cost Share Waiver Requested
(a)	Castro MHP	\$0	\$1,099,245	\$1,141,089	\$41,844	<input checked="" type="checkbox"/>
(b)	CV Water Counts	\$1,065,000	\$1,380,400	\$2,487,400	\$42,000	<input checked="" type="checkbox"/>
(c)	ECVWSP Ave 66	\$3,834,240	\$1,268,750	\$6,902,990	\$1,800,000	<input type="checkbox"/>
(d)	GQPP-Subarea M2-1	\$1,980,450	\$1,979,250	\$3,959,700	\$0	<input type="checkbox"/>
(e)	ECVSSC - Monroe St	\$979,325	\$964,250	\$1,993,575	\$50,000	<input checked="" type="checkbox"/>
(f)	NPW Sys. -Hovley	\$2,488,800	\$1,171,310	\$3,706,760	\$46,650	<input type="checkbox"/>
(g)						<input type="checkbox"/>
(h)						<input type="checkbox"/>
(i)						<input type="checkbox"/>
(j)						<input type="checkbox"/>
(k)						<input type="checkbox"/>
(l)						<input type="checkbox"/>
(m)						<input type="checkbox"/>
(n)						<input type="checkbox"/>
(o)						<input type="checkbox"/>
(p)	Proposed Total	10347815	7863205	20191514		

Note: Grant administration costs shall not exceed ten percent (10%) of the total requested grant amount, including proposal and project level grant administration costs.

Table 3 - Proposed Schedule		
	Start Date	End Date
Grant Agreement	4/1/2020	4/30/2024
(a) Castro MHP Consolidation	11/1/2019	2/8/2021
(b) CV Water Counts – Regional Water Co	4/1/2020	9/31/2023
(c) ECVWSP – Ave 66 Phase 2B	4/1/2020	4/30/2024
(d) GQPP – Sub Area M2-1	4/1/2020	9/9/2022
(e) ECV Septic to Sewer Con. - Monroe St	4/1/2020	4/22/2022
(f) NPW System - Hovley Ln East	4/1/2020	4/14/2022
(g)		
(h)		
(i)		
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Proposed Projects for Prop 1 Round 1

Coachella Valley Regional
Water Management Group

Legend

- Project_Locations
- Coachella Valley IRWM Region
- Coachella Water Authority
- Mission Springs Water District
- Indio Water Authority
- Desert Water Agency
- Coachella Valley Water District
- County Lines
- Disadvantaged Communities (DACs)
- Colorado River Aqueduct
- Whitewater River Storm Water Channel
- Coachella Valley Storm Water Channel
- Coachella and All American Canals
- Water Bodies
- Colorado River Funding Area
- Highways

0 2.25 4.5 9 Miles



Project #: 0574002.10
Map Created: September 2019

Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk. **Data Sources:**

