

Coachella Valley Integrated Regional Water Management 2015 IRWM Implementation Grant Proposal Budget

Attachment 4 consists of the following items:

- ✓ **Budget.** This attachment includes a summary of the budget for the entire Proposal as well as a summary of the budgets for each individual project included within the Proposal.

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Proposal Budget Summary

Table 4-1 includes the Proposal Budget Summary consistent with Table 9 of the PSP. As shown in **Table 4-1**, the total local cost-share (funding match) for the Proposal is 31%. A disadvantaged community (DAC) waiver is being requested for three projects in the Proposal: the *DAC Septic Rehabilitation and Demand Reduction Project*, the *Torres-Martinez Septic to Sewer Conversion Project*, and the *Shady Lane Water and Sewer Connection Project*. As shown in **Table 4-1**, despite the DAC funding waiver request, the local funding match is sufficient to provide an overall 25% match for the Proposal as a whole.

Table 4-1: Proposal Summary Budget (PSP Table 9)

Proposal Title: <i>Coachella Valley 2015 IRWM Implementation Grant Proposal</i>						
Individual Project Title		(a)	(b)	(c)	(d)	(e)
		Requested Grant Amount	Cost Share: Non-State Fund Source (Funding Match)	Cost Share: Other State Funding Source	Total Cost	% Funding Match
	Grant Administration	\$50,000	\$0	\$0	\$50,000	0%
(1)	MSWD Water Supply Reliability Program	\$1,625,000	\$747,200	\$0	\$2,372,200	31%
(2)	Turf Reduction Program	\$1,000,000	\$391,833	\$0	\$1,391,833	28%
(3)	Regional Well Retrofit and Abandonment Program	\$500,000	\$181,605	\$0	\$681,605	27%
(4)	DAC Septic Rehabilitation and Demand Reduction Project	\$500,000	\$54,000	\$0	\$554,000	10%
(5)	Torres-Martinez Septic to Sewer Conversion Project	\$250,000	\$0	\$0	\$250,000	0%
(6)	Shady Lane Water and Sewer Connection Project	\$250,000	\$0	\$0	\$250,000	0%
	Proposal Total	\$4,175,000	\$1,374,638	\$0	\$5,549,638	25%
	DAC Funding Match Waiver Total	N/A	\$0	\$0	\$1,054,000	\$0
	Grand Total	\$4,175,000	\$1,374,638	\$0	\$4,495,638	31%

Project Budgets

Project budgets for the projects included in this Proposal are provided in the following sections. Table 8 in the Final PSP has been completed for each project, and a two-page description that describes how the values were derived is provided for each project.



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Grant Administration

Local Project Sponsor: Coachella Valley Water District (CVWD)

Based upon previous work necessary to execute and administer implementation grant proposals with DWR, the Coachella Valley Regional Water Management Group (CVRWMG) set aside \$50,000 in grant funding that will be provided to CVWD for administration purposes. This grant request takes into consideration that CVWD staff will complete the activities listed below for each task included under Grant Administration. The overall budget is summarized below in **Table 4-2**. No funding match is provided for grant administration, but a funding match waiver is not requested. The funding match from the non-DAC projects within this Proposal will be sufficient to ensure a 25% match for the overall Proposal is provided (see **Table 4-1**).

Row (a) Direct Project Administration

Task 1: Agreement Administration

CVWD staff will work with DWR and the project sponsors responsible for implementing projects contained in this Proposal to execute a contract (approximately 80 hours of time at a rate of \$100) for a total of \$8,000.

Task 2: Invoicing

CVWD staff will collect invoice documentation and will compile invoices for submittal to DWR for approximately four years (2016 – 2019) on a quarterly basis (16 total invoices). It is estimated that 10-11 hours per invoice from staff with a billing rate of \$100 to coordinate with local project sponsors, prepare invoices and coordinate with DWR on any invoice-related issues, and submit final invoices for reimbursement, for a total of \$17,000.

Task 3: Progress Reports and Project Completion Reports

CVWD staff will collect progress reports and will compile progress reports for submittal to DWR for four years on a quarterly basis (16 total progress reports). CVWD staff will also work with sponsors to complete project completion reports and will coordinate with DWR. It is estimated that it takes 10-11 hours per report from staff with a billing rate of \$100 to coordinate with local project sponsors, prepare progress reports and coordinate with DWR on any progress report-related issues, and submit final progress reports, for a total of \$17,000. The completion reports are estimated to take an additional 80 hours for a staff person with a rate of \$100, for a total of \$8,000. In total, this task is anticipated to cost \$15,000 for both quarterly progress reports and final project completion reports.

**Table 4-2: Total Project Budget
Grant Administration**

Proposal Title: <i>Coachella Valley 2015 IRWM Implementation Grant Proposal</i>					
Project Title: Grant Administration					
Project serves a need of a DAC?:		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Funding Match Waiver request?:		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Sources*	Total
(a)	Direct Project Administration	\$50,000	\$0	\$0	\$50,000
	Task 1: Agreement Administration	\$8,000	\$0	\$0	\$8,000
	Task 2: Invoicing	\$17,000	\$0	\$0	\$17,000
	Task 3: Progress Reports and Project Completion Reports	\$25,000	\$0	\$0	\$25,000
(e)	Grand Total	\$50,000	\$0	\$0	\$50,000
*List sources of funding: Not applicable.					



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Project 1: MSWD Water Supply Reliability Program

Local Project Sponsor: Mission Springs Water District (MSWD)

A project summary budget table consistent with Table 8 in the PSP is provided below as **Table 4-3** for the *MSWD Water Supply Reliability Program* project. The following page includes the one-page summary to demonstrate how the budget shown in **Table 4-3** is reasonable based on current available information.

Table 4-3: Total Project Budget
MSWD Water Supply Reliability Program

Proposal Title: Coachella Valley 2015 IRWM Implementation Grant Proposal Project Title: MSWD Water Supply Reliability Program Project serves a need of a DAC?: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Funding Match Waiver request?: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Sources*	Total
(a)	Direct Project Administration	\$38,000	\$17,000	\$0	\$55,000
	Task 1: Project Management	\$20,000	\$10,000	\$0	\$30,000
	Task 2: Labor Compliance Program	\$10,500	\$4,500	\$0	\$15,000
	Task 3: Reporting	\$7,500	\$2,500	\$0	\$10,000
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0
	Task 4: Land Purchase	\$0	\$0	\$0	\$0
(c)	Planning/ Design/ Engineering/ Environmental Documentation	\$15,000	\$182,200	\$0	\$197,200
	Task 5: Feasibility Studies	\$0	\$0	\$0	\$0
	Task 6: Environmental Documentation	\$0	\$10,000	\$0	\$10,000
	Task 7: Permitting	\$0	\$8,000	\$0	\$8,000
	Task 8: Design	\$0	\$164,200	\$0	\$164,200
	Task 9: Project Performance Monitoring Plan	\$15,000	\$0	\$0	\$15,000
(d)	Construction/ Implementation	\$1,572,000	\$548,000	\$0	\$2,120,000
	Task 10: Contract Services	\$0	\$10,000	\$0	\$10,000
	Task 11: Construction Administration	\$80,000	\$80,000	\$0	\$160,000
	Task 12: Construction/Implementation Activities	\$1,492,000	\$458,000	\$0	\$1,950,000
	Subtask 12.1: Implementation of Well 29 Chromium 6 Wellhead Treatment	\$1,367,000	\$443,000	\$0	\$1,810,000
	Subtask 12.2: Implementation of Advanced Metering Technology Pilot Project	\$125,000	\$15,000	\$0	\$140,000
(e)	Grand Total	\$1,625,000	\$747,200	\$0	\$2,372,200
*List sources of funding: MSWD will provide funding match from in-kind services and from its Capital Improvement Program.					



Row (a) Direct Project Administration

Task 1: Project Management

MSWD staff will complete project management activities. MSWD staff with an average hourly billing rate of \$100 will allocate 300 hours to this task based upon previous experience, for a total cost of \$30,000.

Task 2: Labor Compliance Program (LCP)

Costs associated with labor compliance include time required by MSWD staff to submit and manage a LCP, which is assumed as 50 hours at an average billing rate of \$100, for a total of \$5,000. MSWD will also hire a labor compliance consultant for a flat fee of \$10,000 based upon previous experience administering a LCP. Staff and consultant work will total \$15,000 for this task.

Task 3: Reporting

MSWD staff will complete reporting activities for quarterly reports and final reporting. MSWD staff with an average hourly billing rate of \$100 will allocate 100 hours to this task based upon previous experience with IRWM grant reporting, for a total cost of \$10,000.

Row (b) Land Purchase/Easement – Not Applicable

Task 4: Land Purchase – Not Applicable

Row (c) Planning/ Design/ Engineering/ Environmental Documentation

Task 5: Feasibility Studies – Not Applicable

Task 6: Environmental Documentation

Component 1: Well 29 Chromium 6 Wellhead Treatment

The budget for this task includes time for MSWD staff to file a Categorical Exemption and complete a No Legal Challenges Letter and tribal notification. It is estimated that this work will require 100 hours of staff with an hourly rate of \$100. This estimate is based upon previous environmental documentation experience, and will total \$10,000.

Component 2: Advanced Metering Technology Pilot Project – Not Applicable

Task 7: Permitting

Component 1: Well 29 Chromium 6 Wellhead Treatment

MSWD staff with an average hourly billing rate of \$100 will allocate 80 hours to amend MSWD's existing operations permit from the Division of Drinking Water (DDW) for Well 29. This time estimate is based upon previous DDW-related permitting work, and will total \$8,000.

Component 2: Advanced Metering Technology Pilot Project – Not Applicable

Task 8: Design

Component 1: Well 29 Chromium 6 Wellhead Treatment

Design work is based upon a cost estimate from a consultant received in June 2015. The estimate includes time for a consultant with an hourly rate of \$100 to complete a topographic site survey (100 hours), base drawings (300 hours), 30% design documents (442 hours), and 100% design documents (800 hours). Total design costs are anticipated to total \$164,200 based on the consultant fee estimate.

Component 2: Advanced Metering Technology Pilot Project – Not Applicable

Task 9: Project Performance Monitoring Plan

MSWD staff will prepare a Project Performance Monitoring Plan for the program. MSWD staff with an hourly rate of \$100 will require 150 hours to complete this task, for a total of \$15,000.

Row (d) Construction/Implementation

Task 10: Contract Services

Component 1: Well 29 Chromium 6 Wellhead Treatment

Work necessary to complete bidding and secure a contractor will be completed by MSWD. Based upon previous contract services efforts, this work will require 100 hours of time at a rate of \$100 for a total of \$10,000.

Component 2: Advanced Metering Technology Pilot Project – Not Applicable



Task 11: Construction Administration

Component 1: Well 29 Chromium 6 Wellhead Treatment

Construction administration activities will be completed by a contractor – a cost estimate for this task was provided by a consultant with a total fee of \$160,000. This estimate is based upon an assumption that construction will last for approximately eight months (\$20,000 per month).

Component 2: Advanced Metering Technology Pilot Project – Not Applicable

Task 12: Construction/Implementation Activities

Subtask 12.1: Implementation of Well 29 Chromium 6 Wellhead Treatment

All construction/implementation-related costs are based upon a cost estimate that was prepared for MSWD by a consultant in June 2015. Cost estimates are summarized in the following table.

Activity	Cost Estimate ¹
Mobilization	\$32,000
Mobilization/Demobilization	\$20,000
Prepare Stormwater Pollution Prevention Plan	\$12,000
Site Preparation	\$23,000
Clearing and Grubbing	\$8,000
Grading and Trenching	\$15,000
Potholing	\$5,000
Site Construction	\$1,552,000
Motorized Entry Rod Iron Gate	\$17,000
CMU Building with Access Doors	\$95,000
HVAC Unit and Controls	\$20,000
Pressure Vessels	\$1,220,000
SCADA System	\$55,000
Conduit and Wiring	\$25,000
Security Lighting and Cameras	\$20,000
Driveway, Building and Pad Foundations	\$100,000
Startup/Testing/Commissioning	\$198,000
Startup Testing and Programming	\$15,000
Miscellaneous	\$183,000
TOTAL	\$1,810,000

¹ Cost Estimate provided by TKE Engineering, June 2015

Subtask 12.2: Implementation of Advanced Metering Technology Pilot Project

Construction/implementation-related costs were quoted by a vendor that has installed advanced metering technology in the Coachella Valley and also from MSWD staff that has experience administering conservation-related outreach efforts. Cost estimates are summarized in the following table.

Activity	Cost per Unit	Units	Cost Estimate ¹
Public Outreach	\$100/hour	100 hours	\$10,000
Purchase Advanced Meters	\$820/meter	100 meters	\$82,000
Purchase Data Connection	\$120/connection	100 connections	\$12,000
Installation	\$260/meter	100 meter installations	\$26,000
Monitoring, Data Analysis, and Reporting	\$100/hour	100 hours	\$10,000
TOTAL			\$140,000

¹ Cost Estimate provided by MSWD Conservation Staff and SecoSys Water Control Technology, June 2015



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Project 2: Regional Turf Reduction Program

Local Project Sponsor: Desert Water Agency (DWA) and Coachella Water Authority (CWA)

A project summary budget table consistent with Table 8 in the PSP is provided below as **Table 4-4** for the *Regional Turf Reduction Program* project. The following page includes the one-page summary to demonstrate how the budget shown in **Table 4-4** is reasonable based on current available information.

**Table 4-4: Total Project Budget
Turf Reduction Program**

Proposal Title: Coachella Valley 2015 IRWM Implementation Grant Proposal					
Project Title: Regional Turf Reduction Program					
Project serves a need of a DAC?:		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Funding Match Waiver request?:		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Sources*	Total
(a)	Direct Project Administration	\$0	\$23,700	\$0	\$23,700
	Task 1: Project Management	\$0	\$11,850	\$0	\$11,850
	Task 2: Labor Compliance Program	\$0	\$0	\$0	\$0
	Task 3: Reporting	\$0	\$11,850	\$0	\$11,850
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0
	Task 4: Land Purchase	\$0	\$0	\$0	\$0
(c)	Planning/ Design/ Engineering/ Environmental Documentation	\$0	\$3,000	\$0	\$3,000
	Task 5: Feasibility Studies	\$0	\$0	\$0	\$0
	Task 6: Environmental Documentation	\$0	\$0	\$0	\$0
	Task 7: Permitting	\$0	\$0	\$0	\$0
	Task 8: Design	\$0	\$0	\$0	\$0
	Task 9: Project Performance Monitoring Plan	\$0	\$3,000	\$0	\$3,000
(d)	Construction/Implementation	\$1,000,000	\$365,133	\$0	\$1,365,133
	Task 10: Contract Services	\$0	\$0	\$0	\$0
	Task 11: Construction Administration	\$0	\$0	\$0	\$0
	Task 12: Construction/Implementation	\$1,000,000	\$365,133	\$0	\$1,365,133
	Subtask 12.1: Outreach	\$0	\$15,900	\$0	\$15,900
	Subtask 12.2: Implementation of the Turf Rebate Program	\$1,000,000	\$349,233	\$0	\$1,349,233
(e)	Grand Total	\$1,000,000	\$391,833	\$0	\$1,391,833
*List sources of funding: In-kind services borne by each agency and matching expenses borne by recipients of the turf rebates.					



Row (a) Direct Project Administration

Task 1: Project Management

Costs for project management include time for DWA and CWA staff to complete administrative duties; hourly estimates are based on prior project management experience. DWA Conservation Coordinator with a \$75 per hour rate will dedicate 60 hours towards this task and a DWA Conservation Staff with a \$60 per hour rate will dedicate 60 hours toward this task for a total of \$8,100. CWA Conservation Coordinator with a \$75 per hour rate will dedicate 50 hours toward this task for a total of \$3,750. Costs for this task will total \$11,850.

Task 2: Labor Compliance Program – Not Applicable

Task 3: Reporting

Costs for reporting include time required by DWA and CWA staff to complete reporting duties; hourly estimates are based on prior IRWM grant reporting experience. DWA Conservation Coordinator with a \$75 per hour rate will dedicate 60 hours towards this task and DWA Conservation Staff with a \$60 per hour rate will dedicate 60 hours toward this task for a total of \$8,100. CWA Conservation Coordinator with a \$75 per hour rate will dedicate 50 hours toward this task for a total of \$3,750. Costs for this task will total \$11,850.

Row (b) Land Purchase/ Easement

Task 4: Land Purchase – Not Applicable

Row (c) Planning/ Design/ Engineering/ Environmental Documentation

Task 5: Feasibility Studies – Not Applicable

Task 6: Environmental Documentation – Not Applicable

Task 7: Permitting– Not Applicable

Task 8: Design– Not Applicable

Task 9: Project Performance Monitoring Plan

Costs associated with the Project Performance Monitoring Plan include time for DWA and CWA staff to develop and submit a Project Performance Monitoring Plan to DWR via CVWD. DWA and CWA Conservation Coordinators with a \$75 per hour rate will dedicate 20 hours each towards this task for a total of \$1,500 per agency and a total of \$3,000. This estimate is based upon prior experience preparing reporting plans for DWR.

Row (d) Construction/Implementation

Task 10: Contract Services– Not Applicable

Task 11: Construction Administration– Not Applicable

Task 12: Construction/Implementation Activities

Subtask 12.1: Outreach

Costs for outreach include time for DWA and CWA staff to execute marketing and outreach to promote the program. Costs are based upon previous work experience from each agency and are based upon hourly billing rates for each agency. Detailed cost-breakdown information for this subtask are provided in the table below; total costs for this subtask are \$15,900.

Subtask 12.2: Implementation of the Turf Rebate Program

Costs for program implementation include time for DWA and CWA staff to administer the program, including rebate application review and approval, pre- and post-site visits to customer sites, verification of successful project completion, customer support, rebate check processing, and program website maintenance. Costs are based upon previous work experience from each agency and are based upon hourly billing rates for each agency as well as turf rebate program costs based upon terms of each agency's rebate program. As discussed in the Work Plan (Attachment 3), DWA's rebate program is \$2 per square foot and CWA's is \$1



per square foot. Detailed cost-breakdown information for this subtask are provided in the table below; total costs for this subtask are \$1,349,233.

The following table shows an overall budget breakdown for Task 12 activities:

Activity/Classification	Cost per Unit	Units	Cost Estimate ¹
Subtask 12.1: Outreach			
DWA Public Information Officer	\$85/hour	60 hours	\$5,100
DWA Conservation Coordinator	\$75/hour	60 hours	\$4,500
DWA Conservation Staff	\$60/hour	60 hours	\$3,600
CWA Conservation Coordinator	\$75/hour	20 hours	\$1,500
CWA Conservation Staff	\$60/hour	20 hours	\$1,200
Subtask 12.1 Subtotal			\$15,900
Subtask 12.2: Implementation of the Turf Rebate Program			
DWA Public Information Officer	\$85/hour	60 hours	\$5,100
DWA Conservation Coordinator	\$75/hour	60 hours	\$4,500
DWA Conservation Staff	\$60/hour	60 hours	\$3,600
CWA Conservation Coordinator	\$75/hour	20 hours	\$1,500
CWA Conservation Staff	\$60/hour	20 hours	\$1,200
DWA Rebates	\$2/square foot	533,333 square feet	\$1,066,666
CWA Rebates	\$1/square foot	266,666 square feet	\$266,666
Subtask 12.2 Subtotal			\$1,349,233
Task 12 TOTAL			\$1,365,133

¹ Cost estimate based upon information from CWA and DWA staff and prior experience implementing turf rebate programs



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Project 3: Regional Well Retrofit and Abandonment Program

Local Project Sponsor: Coachella Valley Water District (CVWD)

A project summary budget table consistent with Table 8 in the PSP is provided below as **Table 4-5** for the *Regional Well Retrofit and Abandonment Program* project. The following page includes the one-page summary to demonstrate how the budget shown in **Table 4-5** is reasonable based on current available information.

Table 4-5: Total Project Budget
Regional Well Retrofit and Abandonment Program

Proposal Title: Coachella Valley 2015 IRWM Implementation Grant Proposal					
Project Title: Regional Well Retrofit and Abandonment Program					
Project serves a need of a DAC?:		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Funding Match Waiver request?:		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Sources*	Total
(a)	Direct Project Administration	\$0	\$20,000	\$0	\$20,000
	Task 1: Project Management	\$0	\$8,000	\$0	\$8,000
	Task 2: Labor Compliance Program	\$0	\$4,000	\$0	\$4,000
	Task 3: Reporting	\$0	\$8,000	\$0	\$8,000
(b)	Land Purchase/ Easement	\$0	\$0	\$0	\$0
	Task 4: Land Purchase	\$0	\$0	\$0	\$0
(c)	Planning/ Design/ Engineering/ Environmental Documentation	\$1,876	\$30,124	\$0	\$32,000
	Task 5: Feasibility Studies	\$0	\$0	\$0	\$0
	Task 6: Environmental Documentation	\$0	\$0	\$0	\$0
	Task 7: Permitting	\$1,876	\$18,124	\$0	\$20,000
	Task 8: Design	\$0	\$8,000	\$0	\$8,000
	Task 9: Project Performance Monitoring Plan	\$0	\$4,000	\$0	\$4,000
(d)	Construction/ Implementation	\$498,124	\$131,481	\$0	\$629,605
	Task 10: Contract Services	\$0	\$0	\$0	\$0
	Task 11: Construction Administration	\$0	\$0	\$0	\$0
	Task 12: Construction/Implementation	\$498,124	\$131,481	\$0	\$629,605
	Subtask 12.1: Outreach	\$0	\$20,000	\$0	\$20,000
	Subtask 12.2: Implementation of the Regional Well Retrofit Rebate Program	\$498,124	\$111,481	\$0	\$609,605
(e)	Grand Total	\$500,000	\$181,605	\$0	\$681,605
*List sources of funding: In-kind services borne by CVWD and matching expenses borne by recipients of the well rebates.					



Row (a) Direct Project Administration

Task 1: Project Management

Costs for project management include time for CVWD staff to complete administrative duties, and were estimated by CVWD based upon prior experience with project management. CVWD Engineer will dedicate 80 total hours to this task with a billing rate of \$100 for a total cost of \$8,000.

Task 2: Labor Compliance Program (LCP)

Costs associated with labor compliance include time required by CVWD to work within its established labor compliance program to select a short-list of contractors that are approved per California Labor Code Requirements. CVWD will then work with rebate recipients to ensure that appropriate contractors are utilized and that retrofits are complete in a manner that is compliant with applicable California Labor Code requirements. The budget estimate is based on previous work experience, and assuming that a CVWD Engineer will dedicate a total of 40 hours at an average billing rate of \$100, for a total of \$4,000.

Task 3: Reporting

Costs for project reporting include time for CVWD staff to complete administrative duties, and were estimated by CVWD based upon prior experience with grant reporting to DWR for IRWM grants. CVWD Engineer will dedicate 80 total hours to this task with a billing rate of \$100 for a total cost of \$8,000.

Row (b) Land Purchase/ Easement

Task 4: Land Purchase – Not Applicable

Row (c) Planning/ Design/ Engineering/ Environmental Documentation

Task 5: Feasibility Studies – Not Applicable

Task 6: Environmental Documentation – Not Applicable

Task 7: Permitting

Costs for permitting include time for assisting applicants with securing permits from the County of Riverside and ensuring that abandonment, construction, reconstruction, or destruction of wells takes place in accordance with standards recommended by DWR. CVWD Engineer will dedicate 200 total hours to this task with a billing rate of \$100, for a total of \$20,000. Permitting time estimates were provided by CVWD based upon prior experience with permitting for CVWD's existing Artesian Well Rebate Program (see Attachment 3 for more information).

Task 8: Design

Costs associated with design include developing final guidelines and specifications for the rebate program based upon CVWD's existing Artesian Well Rebate Program. CVWD Engineer will dedicate 80 total hours to this task with a billing rate of \$100, for a total of \$8,000.

Task 9: Project Performance Monitoring Plan

Costs associated with developing and submitting a Project Performance Monitoring Plan to DWR, and were estimated by CVWD based upon prior experience preparing and submitting monitoring plans to DWR for IRWM grants. CVWD Engineer with a \$100 per hour rate will dedicate 40 hours towards this task for a total of \$4,000.

Row (d) Construction/Implementation

Task 10: Contract Services – Not Applicable

Task 11: Construction Administration – Not Applicable

Task 12: Construction/Implementation Activities

Subtask 12.1 Outreach

Costs for outreach include CVWD staff time to execute marketing and outreach to promote the rebate program. CVWD Engineer with a \$100 per hour rate will dedicate 200 hours towards this task, for a total of \$20,000. Costs are based upon previous work experience from rebate programs CVWD has issued and



are based upon hourly billing rates from CVWD staff. Detailed cost-breakdown information for this subtask are provided in the following table.

Subtask 12.2 Implementation of the Regional Well Retrofit Rebate Program

Costs to administer the program include rebate application review and approval, pre- and post-site visits to customer sites, verification of successful project completion, customer support, rebate check processing, and program website maintenance. Costs are based upon previous work experience from CVWD and assume that either CVWD staff or a contractor will allocate a total of 522 hours towards this task (approximately 6 hours per well retrofit) for a total of \$52,200. Costs associated with the rebates are based upon average retrofit costs analyzed in a Technical Memorandum (TM) for the *Regional Well Retrofit and Abandonment Program*. The aforementioned TM found the following average costs for well retrofits:

- Average Cost to Retrofit Wells for Inclusion in CASGEM Network: \$8,805/well
- Average Cost to Properly Seal a Well: \$1,500-6,000/well (overall average \$3,750/well)
- Average Cost to Destroy a Well: \$20,000-\$50,000/well (overall average \$35,000/well)

Individuals that receive well retrofit rebates will be required to pay a cost share portion of the retrofit costs. The budget assumes that the grant will pay to up to 80% of the overall retrofit costs; this rebate amount was selected based upon prior experience and is thought to be substantial enough to encourage rebates across the Region.

The following table shows an overall budget breakdown for Task 12 activities:

Activity/Classification	Cost per Unit	Units	Cost Estimate ¹
Subtask 12.1: Outreach			
CVWD Engineer	\$100/hour	200 hours	\$20,000
Subtask 12.1 Subtotal			\$20,000
Subtask 12.2: Implementation of the Regional Well Retrofit Rebate Program			
Engineer (CVWD or Contractor)	\$100/hour	522 hours	\$52,200
Well Retrofits for CASGEM	\$8,805/well	21 wells	\$184,905
Well Retrofits for Proper Sealing	\$3,750/well	62 wells	\$232,500
Well Retrofits for Destruction	\$35,000/well	4 wells	\$140,000
Subtask 12.2 Subtotal			\$609,605
Task 12 TOTAL			\$629,605

¹ Cost estimate based upon information from CVWD staff and from the *Technical Memorandum for the Regional Well Retrofit and Abandonment Program*



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Project 4: DAC Septic Rehabilitation and Demand Reduction Program

Local Project Sponsor: Coachella Valley Water District (CVWD)

A project summary budget table consistent with Table 8 in the PSP is provided below as **Table 4-6** for the *DAC Septic Rehabilitation and Demand Reduction Program* project. The following page includes the one-page summary to demonstrate how the budget shown in **Table 4-6** is reasonable based on current available information.

Table 4-6: Total Project Budget
DAC Septic Rehabilitation and Demand Reduction Program

Proposal Title: Coachella Valley 2015 IRWM Implementation Grant Proposal					
Project Title: DAC Septic Rehabilitation and Demand Reduction Program					
Project serves a need of a DAC?:		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Funding Match Waiver request?:		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Sources*	Total
(a)	Direct Project Administration	\$0	\$20,000	\$0	\$20,000
	Task 1: Project Management	\$0	\$8,000	\$0	\$8,000
	Task 2: Labor Compliance Program	\$0	\$4,000	\$0	\$4,000
	Task 3: Reporting	\$0	\$8,000	\$0	\$8,000
(b)	Land Purchase/ Easement	\$0	\$0	\$0	\$0
	Task 4: Land Purchase	\$0	\$0	\$0	\$0
(c)	Planning/ Design/ Engineering/ Environmental Documentation	\$0	\$14,000	\$0	\$14,000
	Task 5: Feasibility Studies	\$0	\$0	\$0	\$0
	Task 6: Environmental Documentation	\$0	\$0	\$0	\$0
	Task 7: Permitting	\$0	\$0	\$0	\$0
	Task 8: Design	\$0	\$10,000	\$0	\$10,000
	Task 9: Project Performance Monitoring Plan	\$0	\$4,000	\$0	\$4,000
(d)	Construction/ Implementation	\$500,000	\$20,000	\$0	\$520,000
	Task 10: Contract Services	\$0	\$0	\$0	\$0
	Task 11: Construction Administration	\$0	\$0	\$0	\$0
	Task 12: Construction/Implementation	\$500,000	\$20,000	\$0	\$520,000
	Subtask 12.1: Outreach	\$0	\$20,000	\$0	\$20,000
	Subtask 12.2: Implementation of the DAC Septic Rehabilitation and Demand Reduction Program	\$500,000	\$0	\$0	\$500,000
(e)	Grand Total	\$500,000	\$54,000	\$0	\$554,000
*List sources of funding: In-kind services borne by CVWD will provide some of the matching funds; however, this is a rebate for DACs and as such, matching expenses are not being requested from those who will receive rebates. A DAC waiver is being requested for this project.					



Row (a) Direct Project Administration

Task 1: Project Management

Costs for project management include time for CVWD staff to complete administrative duties, and were estimated by CVWD based upon prior experience with project management. CVWD Engineer will dedicate 80 total hours to this task with a billing rate of \$100, for a total of \$8,000.

Task 2: Labor Compliance Program (LCP)

Costs associated with labor compliance include time required by CVWD to work within its established labor compliance program to select a short-list of contractors that are approved per California Labor Code Requirements. CVWD will then work with rebate recipients to ensure that appropriate contractors are utilized and that septic system retrofits and greywater installations are complete in a manner that is compliant with applicable California Labor Code requirements. The budget estimate is based on previous work experience, and assuming that a CVWD Engineer will dedicate a total of 40 hours at an average billing rate of \$100, for a total of \$4,000.

Task 3: Reporting

Costs for project reporting include time for CVWD staff to complete administrative duties, and were estimated by CVWD based upon prior experience with grant reporting to DWR for IRWM grants. CVWD Engineer will dedicate 80 total hours to this task with a billing rate of \$100, for a total of \$8,000.

Row (b) Land Purchase/ Easement

Task 4: Land Purchase – Not Applicable

Row (c) Planning/ Design/ Engineering/ Environmental Documentation

Task 5: Feasibility Studies – Not Applicable

Task 6: Environmental Documentation – Not Applicable

Task 7: Permitting – Not Applicable

Task 8: Design

Costs for design include time for CVWD staff to develop final guidelines and specifications for the rebate program. CVWD Engineer will dedicate approximately 100 total hours to this task with a billing rate of \$100, for a total of \$10,000. These design costs are based upon previous experience developing rebate programs, and specifically are based on design costs associated with the *DAC Onsite Plumbing Retrofit Program* that is being funded through a Proposition 84 Implementation Grant from the 2014 Drought Solicitation.

Task 9: Project Performance Monitoring Plan

Costs associated with developing and submitting a Project Performance Monitoring Plan to DWR, and were estimated by CVWD based upon prior experience preparing and submitting monitoring plans to DWR for IRWM grants. CVWD Engineer with a \$100 per hour rate will dedicate 40 hours towards this task, for a total of \$4,000.

Row (d) Construction/Implementation

Task 10: Contract Services – Not Applicable

Task 11: Construction Administration – Not Applicable

Task 12: Construction/Implementation Activities

Subtask 12.1: Outreach

Costs for outreach include CVWD staff time to execute marketing and outreach to promote the rebate program. CVWD Engineer with a \$100 per hour rate will dedicate 200 hours towards this task, for a total of \$20,000. Outreach costs were provided by CVWD staff and are based upon prior experience conducting outreach for regional rebate programs.

Subtask 12.2: Implementation of the DAC Septic Rehabilitation and Demand Reduction Program

Costs to administer the program include rebate application review and approval, pre- and post-site visits to customer sites, verification of successful project completion, customer support, rebate check processing,



and program website maintenance. Costs are based upon previous work experience from CVWD and are based upon hourly billing rates as well as rebate program costs based upon terms of the rebate program. Because this rebate is targeted solely at DACs, a cost share requirement will not be required of those that receive rebates. The rebate costs are estimated based upon the costs for septic retrofits and greywater installations. The costs for septic retrofits were assessed in a Final Report that was part of the Coachella Valley DAC Outreach Program (see Attachment 3 for more information) – this assessment found that the average cost to retrofit failing onsite septic systems was \$15,000 per system (per mobile home park). The costs for greywater installations are based upon estimates from the Greywater Action¹, which demonstrates that full installation of “laundry to landscape” systems that involve use of greywater from laundry machines cost \$2,000 per system for full installation. The overall rebate costs assume that 175 greywater systems will be installed as part of this project. Total costs associated with implementing the rebate program are \$554,000. The following table shows an overall budget breakdown for Task 12 activities:

Activity/Classification	Cost per Unit	Units	Cost Estimate ¹
Subtask 12.1: Outreach			
CVWD Engineer	\$100/hour	200 hours	\$20,000
Subtask 12.1 Subtotal			\$20,000
Subtask 12.2: Implementation of the DAC Septic Rehabilitation and Demand Reduction Program			
Engineer (CVWD or Contractor)	\$100/hour	750 hours	\$75,000
Septic Retrofits	\$15,000/mobile home park	5 mobile home parks	\$75,000
Greywater Installations	\$2,000/installation	175 installations	\$350,000
Subtask 12.2 Subtotal			\$500,000
Task 12 TOTAL			\$520,000

¹ Cost estimate based upon information from CVWD staff, from the *Coachella Valley DAC Outreach Program*, and from Greywater Action

¹ Greywater Action. *Greywater FAQ: How Much Does a Greywater System Cost?* Available: <http://greywateraction.org/greywater-faq/>



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Project 5: Torres-Martinez Septic to Sewer Conversion Project

Local Project Sponsor: Torres-Martinez Desert Cahuilla Indians (DCI)

Partners: Indian Health Services (IHS) and Coachella Valley Water District (CVWD)

A project summary budget table consistent with Table 8 in the PSP is provided below as **Table 4-7** for the *Torres-Martinez Septic to Sewer Conversion* project. The following page includes the one-page summary to demonstrate how the budget shown in **Table 4-7** is reasonable based on current available information.

Table 4-7: Total Project Budget
Torres-Martinez Septic to Sewer Conversion Project

Proposal Title: Coachella Valley 2015 IRWM Implementation Grant Proposal					
Project Title: Torres-Martinez Septic to Sewer Conversion Project					
Project serves a need of a DAC?:		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Funding Match Waiver request?:		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Sources*	Total
(a)	Direct Project Administration	\$6,400	\$0	\$0	\$6,400
	Task 1: Project Management	\$4,400	\$0	\$0	\$4,400
	Task 2: Labor Compliance Program	\$0	\$0	\$0	\$0
	Task 3: Reporting	\$2,000	\$0	\$0	\$2,000
(b)	Land Purchase/ Easement	\$0	\$0	\$0	\$0
	Task 4: Land Purchase	\$0	\$0	\$0	\$0
(c)	Planning/ Design/ Engineering/ Environmental Documentation	\$243,600	\$0	\$0	\$243,600
	Task 5: Feasibility Studies	\$0	\$0	\$0	\$0
	Task 6: Environmental Documentation	\$173,600	\$0	\$0	\$173,600
	Task 7: Permitting	\$0	\$0	\$0	\$0
	Task 8: Design	\$70,000	\$0	\$0	\$70,000
	Task 9: Project Performance Monitoring Plan	\$0	\$0	\$0	\$0
(d)	Construction/ Implementation	\$0	\$0	\$0	\$0
	Task 10: Contract Services	\$0	\$0	\$0	\$0
	Task 11: Construction Administration	\$0	\$0	\$0	\$0
	Task 12: Construction/Implementation	\$0	\$0	\$0	\$0
(e)	Grand Total	\$250,000	\$0	\$0	\$250,000
*List sources of funding: No funding match is being provided; this is a project that will solely benefit an economically disadvantaged tribal community. A funding match waiver is being requested.					



Row (a) Direct Project Administration

Task 1: Project Management

Costs for project management include time for Torres-Martinez DCI staff to complete administrative duties, and were estimated by Torres-Martinez DCI based upon prior experience with project management. Torres-Martinez DCI Grant Administrator will dedicate 40 total hours to this task with a billing rate of \$50, for a total of \$2,000. This task also includes costs associated with preparing the Proposition 84 2015 IRWM Implementation Grant Proposal; this cost is \$2,400 based upon actual consultant costs associated with application preparation. Total costs for Task 1 include labor for management tasks and consultant grant application costs, totaling \$4,400.

Task 2: Labor Compliance Program (LCP) – Not Applicable

Task 3: Reporting

Costs for project reporting include time for Torres-Martinez DCI staff to complete administrative duties, and were estimated by Torres-Martinez DCI based upon prior experience with grant reporting to DWR for IRWM grants. Torres-Martinez DCI Grant Administrator will dedicate 40 total hours to this task with a billing rate of \$50, for a total cost of \$2,000.

Row (b) Land Purchase/ Easement

Task 4: Land Purchase – Not Applicable

Row (c) Planning/ Design/ Engineering/ Environmental Documentation

Task 5: Feasibility Studies – Not Applicable

Task 6: Environmental Documentation

Costs for design are based upon a cost estimate prepared by L&L Environmental, Inc. in July 2015. A detailed break-down of costs for environmental documentation are included in the following table; the total cost quoted for this effort is \$173,600.

The following shows an overall budget breakdown for Task 6 activities:

Activity/Classification	Cost per Unit	Units	Cost Estimate¹
Updated Phase I Cultural Resources Report	\$150/hour	80 hours	\$12,000
Updated Biological Reports	\$150/hour	100 hours	\$15,000
Final Phase II Testing Plan	\$150/hour	80 hours	\$12,000
In-Field Testing and Forms	\$150/hour	303 hours	\$45,450
Phase II Cultural Resources Report	\$150/hour	190 hours	\$28,500
Section 106 Report	\$150/hour	190 hours	\$28,050
Final Initial Study-Mitigated Negative Declaration/Environmental Assessment and Noticing	\$150/hour	187 hours	\$28,000
Fieldwork-Related Expenses	\$4,100/unit	1 unit	\$4,100
Task 6 TOTAL			\$173,600

¹ Cost estimate based upon a cost estimation provided by L&L Environmental, Inc. in July 2015



Task 7: Permitting – Not Applicable

Task 8: Design

Costs for design are based upon a design cost estimate prepared by Indian Health Services in July 2015, which totals \$70,000. A detailed break-down of costs for design are included in the following table. Note that billing rates vary for engineering work based upon the party that would complete the work. Indian Health Services estimated that a contract engineer would complete design plans and that Indian Health Services Staff would complete plan review and technical support activities.

The following shows an overall budget breakdown for Task 8 activities:

Activity/Classification	Cost per Unit	Units	Cost Estimate ¹
30% Design Plans (Contract Engineer)	\$200/hour	100 hours	\$20,000
60% Design Plans (Contract Engineer)	\$200/hour	70 hours	\$14,000
90% Design Plans (Contract Engineer)	\$200/hour	65 hours	\$13,000
100% Design Plans (Contract Engineer)	\$200/hour	50 hours	\$10,000
Plan Review and Coordination with CVWD	\$100/hour	40 hours	\$4,000
Technical Support to Develop the Preliminary Engineering Report	\$100/hour	90 hours	\$9,000
Task 8 TOTAL			\$70,000

¹ Cost estimate based upon a cost estimation provided by Roger Hargrove, P.E., Indian Health Services in July 2015

Task 9: Project Performance Monitoring Plan – Not Applicable

Row (d) Construction/Implementation – Not Applicable

Task 10: Contract Services – Not Applicable

Task 11: Construction Administration – Not Applicable

Task 12: Construction/Implementation Activities – Not Applicable



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Project 6: Shady Lane Water and Sewer Connection Project

Local Project Sponsor: Coachella Water Authority (CWA)

Partners: Shady Lane Mobilehome Park, Inc.

A project summary budget table consistent with Table 8 in the PSP is provided below as **Table 4-8** for the *Shady Lane Water and Sewer Connection* project. The following page includes the one-page summary to demonstrate how the budget shown in **Table 4-8** is reasonable based on current available information.

Table 4-8: Total Project Budget
Shady Lane Water and Sewer Connection Project

Proposal Title: Coachella Valley 2015 IRWM Implementation Grant Proposal					
Project Title: Shady Lane Water and Sewer Connection Project					
Project serves a need of a DAC?:		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Funding Match Waiver request?:		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Sources*	Total
(a)	Direct Project Administration	\$12,400	\$0	\$0	\$12,400
	Task 1: Project Management	\$7,400	\$0	\$0	\$7,400
	Task 2: Labor Compliance Program	\$0	\$0	\$0	\$0
	Task 3: Reporting	\$5,000	\$0	\$0	\$5,000
(b)	Land Purchase/ Easement	\$0	\$0	\$0	\$0
	Task 4: Land Purchase	\$0	\$0	\$0	\$0
(c)	Planning/ Design/ Engineering/ Environmental Documentation	\$237,600	\$0	\$0	\$237,600
	Task 5: Feasibility Studies	\$0	\$0	\$0	\$0
	Task 6: Environmental Documentation	\$58,000	\$0	\$0	\$58,000
	Task 7: Permitting	\$40,000	\$0	\$0	\$40,000
	Task 8: Design	\$139,600	\$0	\$0	\$139,600
	Task 9: Project Performance Monitoring Plan	\$0	\$0	\$0	\$0
(d)	Construction/ Implementation	\$0	\$0	\$0	\$0
	Task 10: Contract Services	\$0	\$0	\$0	\$0
	Task 11: Construction Administration	\$0	\$0	\$0	\$0
	Task 12: Construction/Implementation	\$0	\$0	\$0	\$0
(e)	Grand Total	\$250,000	\$0	\$0	\$250,000
*List sources of funding: No funding match is being provided; this is a project that will solely benefit an economically disadvantaged community. A funding match waiver is being requested.					



Row (a) Direct Project Administration

Task 1: Project Management

Costs for project management include time for Shady Lane Mobilehome Park, Inc. staff to complete administrative duties. These costs were estimated by CWA, because Shady Lane Mobilehome Park, Inc. has not been involved in administering an IRWM grant. A staff person from Shady Lane Mobilehome Park, Inc. will dedicate 100 total hours to this task with a billing rate of \$50, for a total of \$5,000. This task also includes costs associated with preparing the Proposition 84 2015 IRWM Implementation Grant Proposal; this cost is \$2,400 based upon actual consultant costs associated with application preparation. Total costs for Task 1 include labor for management tasks and consultant grant application costs, totaling \$7,400.

Task 2: Labor Compliance Program (LCP) – Not Applicable

Task 3: Reporting

Costs for project reporting include time for Shady Lane Mobilehome Park, Inc. staff to complete administrative duties, and were estimated by CWA based upon prior experience with grant reporting to DWR for IRWM grants. A staff person from Shady Lane Mobilehome Park, Inc. will dedicate 100 total hours to this task with a billing rate of \$50, for a total of \$5,000.

Row (b) Land Purchase/ Easement

Task 4: Land Purchase – Not Applicable

Row (c) Planning/ Design/ Engineering/ Environmental Documentation

Task 5: Feasibility Studies – Not Applicable

Task 6: Environmental Documentation

Costs for design are based upon a design cost estimate prepared by a local consulting firm in conjunction with CWA in July 2015. A detailed break-down of costs for environmental documentation are included in the following table, and total \$58,000.

The following shows an overall budget breakdown for Task 6 activities:

Activity/Classification	Cost per Unit	Units	Cost Estimate¹
Biological Study/Report (Biologist)	\$100/hour	80	\$8,000
Cultural/Archaeological Report (Archaeologist)	\$100/hour	80	\$8,000
Final Initial Study-Mitigated Negative Declaration/Environmental Assessment and Noticing (Environmental Planner)	\$100/hour	348	\$34,800
Final Mitigation Monitoring Plan (Sr. Environmental Planner)	\$160/hour	45	\$7,200
Task 6 TOTAL			\$58,000

¹ Cost estimate based upon a cost estimation provided by a consulting firm and CWA in July 2015

Task 7: Permitting

Costs for permitting are based upon CWA's information from similar projects that have been implemented in the Coachella Valley, and include coordination time with CWA and Riverside County as well as work required to prepare Conditional Use Permit (CUP) documentation. A detailed break-down of costs for permitting are included in the following table, and total \$40,000.



The following shows an overall budget breakdown for Task 7 activities:

Activity/Classification	Cost per Unit	Units	Cost Estimate ¹
Coordination with Regulators	\$200/hour	100 hours	\$20,000
Prepare CUP	\$200/hour	100 hours	\$20,000
Task 7 TOTAL			\$40,000

¹ Cost estimate based upon a cost estimation provided by CWA in July 2015

Task 8: Design

Costs for design are based upon a design cost estimate prepared by Coachella Water Authority in July 2015. A detailed break-down of costs for design are included in the following table, and total \$139,600.

The following shows an overall budget breakdown for Task 8 activities:

Activity/Classification	Cost per Unit	Units	Cost Estimate ¹
30% Design Plans (Contract Engineer)	\$200/hour	140 hours	\$28,000
60% Design Plans (Contract Engineer)	\$200/hour	160 hours	\$32,000
90% Design Plans (Contract Engineer)	\$200/hour	160 hours	\$32,000
100% Design Plans (Contract Engineer)	\$200/hour	118 hours	\$23,600
Plan Review and Coordination with CWA (Engineer Staff)	\$100/hour	80 hours	\$8,000
Preliminary Engineering Report (Contract Engineer)	\$200/hour	80 hours	\$16,000
Task 8 TOTAL			\$139,600

¹ Cost estimate based upon a cost estimation provided by CWA in July 2015

Task 9: Project Performance Monitoring Plan – Not Applicable

Row (d) Construction/Implementation – Not Applicable

Task 10: Contract Services – Not Applicable

Task 11: Construction Administration – Not Applicable

Task 12: Construction/Implementation Activities – Not Applicable



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