



Coachella Valley
Regional Water Management Group



City of Coachella



DESERT WATER



Coachella Valley Integrated Regional Water Management Plan

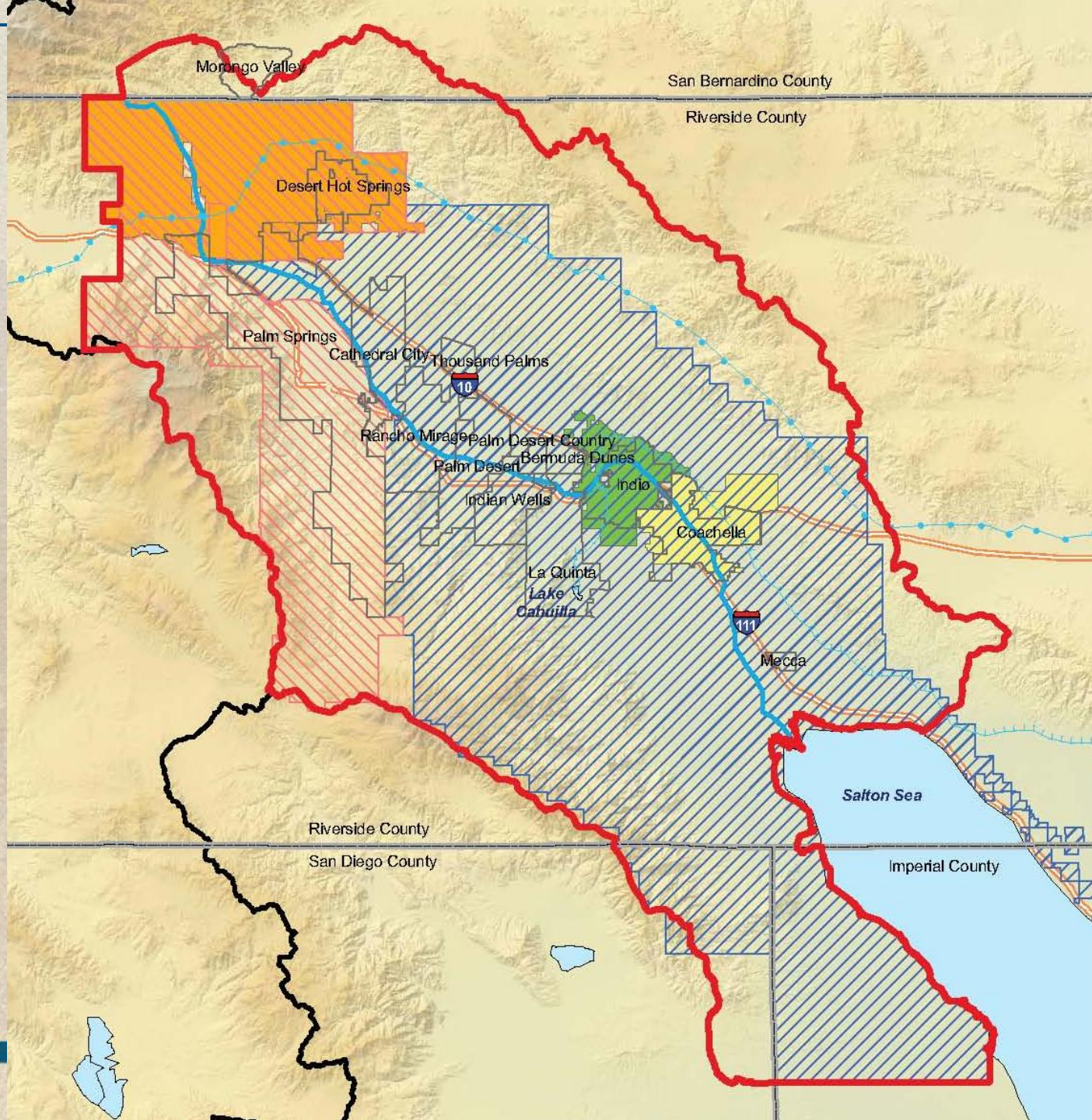
September 13, 2012



*Innovative Solutions for
Water and the Environment*

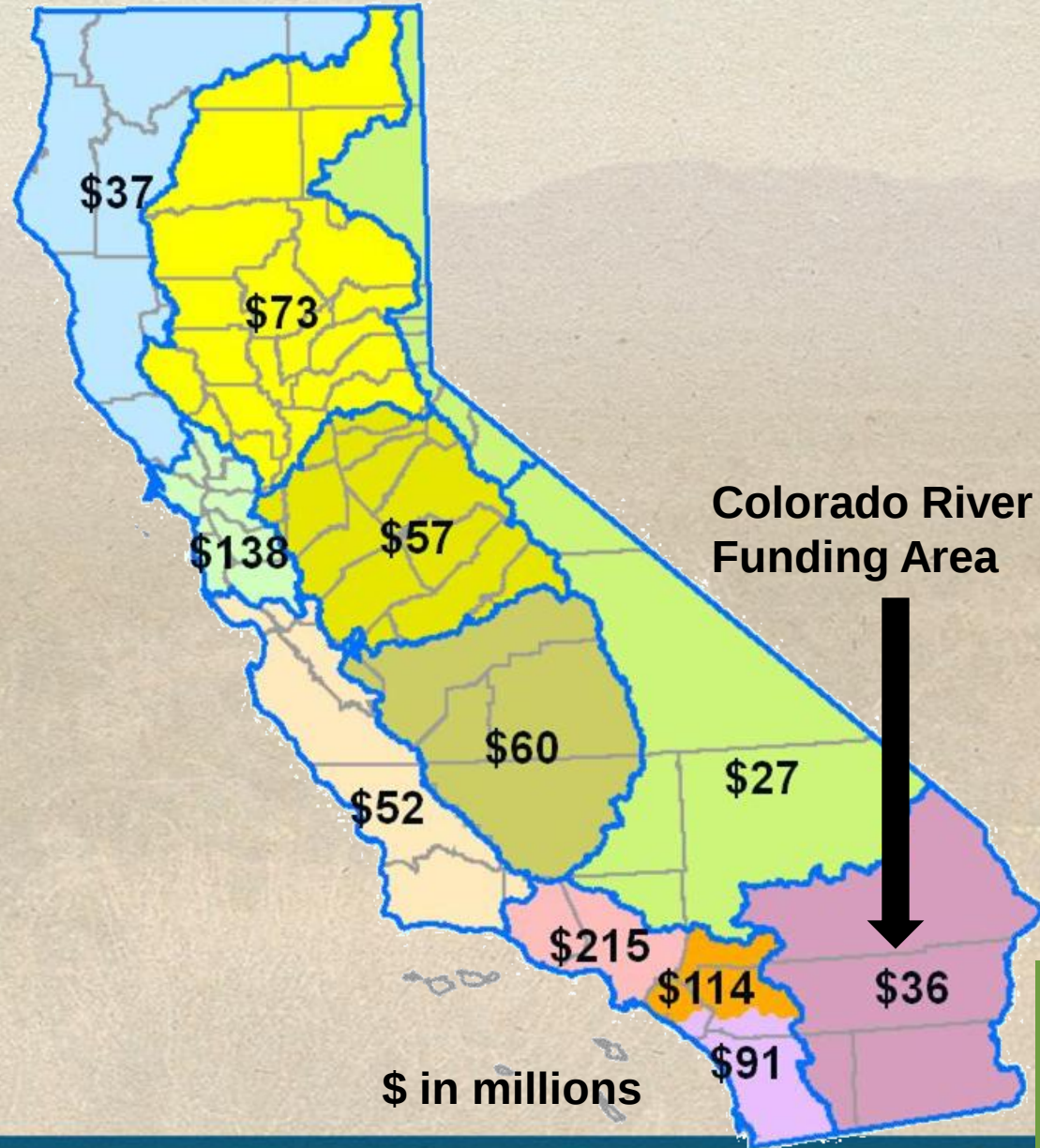
Agenda

- Welcome and Introductions
- Upcoming DWR Grant Opportunities
- Update on Coachella Valley IRWM Planning Studies
- Update on DAC Outreach and Assistance
- Next Steps



IRWM Funding: Proposition 84

- \$1 Billion in IRWM funding allocated to 11 “funding areas” throughout the State
- Coachella Valley is in the Colorado River Funding Area - a highly competitive funding area



Prop 84-Round 2 Grant Opportunity

- Of \$36 million available, Coachella Valley has received \$5 million in Proposition 84 grants (\$4 million in Prop 84-Round 1)
- \$22 million remaining for the Colorado River Funding Area
- DWR has announced Prop 84-Round 2 (of 3 total)
- Approximately \$5.24 million available for the Colorado River Funding Area in Round 2
 - Competitive with Mojave, Imperial, and Anza Borrego Desert

Anticipated Round 2 Schedule

Task	2012						2013		
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Call for New Projects-Online Database (Sept 10-October 19)									
CVRWMG Revises Project Selection Process									
CVRWMG Review and Analysis of Submitted Projects									
Interviews Take Place to Verify Details of Submitted Projects									
Planning Partners Review Recommended Project List (Dec 13)									
CVRWMG Agency Board Approval of Grant Application Submittal									
Consultant, LPSs, and RWMG Develop Grant Application									
Anticipated Round 2 Application Deadline									

Prop 84-Round 2 Details

- **Call for Projects: OPEN NOW!!!**
 - Solicits new projects for consideration of Round 2 funding
 - Projects must be submitted by **October 19th** to be considered
- **Grant Reimbursement:** Lengthy process
- **Funding match:** Minimum 25%
- **Retention:** 10%
- **CEQA compliance required**
- **Labor compliance program required (for applicable projects)**
- **Selected project sponsors will be responsible for contributing funds required to produce the grant application**

Project Selection Process

1. Sponsors submit projects to online project database by **October 19th** at IRWM website, www.cvrwmg.org
2. All projects reviewed and ranked in accordance with Project Selection Criteria in IRWM Plan
3. Suite of projects and funding amounts recommended by the CVRWMG to the Planning Partners
 - Planning Partners discussion on December 13th
4. CVRWMG and project proponents work on grant application, then final suite of projects submitted to DWR in March 2013

Project Submittal Process

Submitting Projects www.cvrwmg.org

- Create an account
- Add/edit projects for funding consideration
- Provide project description, budget, and feasibility

The screenshot shows the CVRWMG (Cochise Valley Regional Water Management Group) website. The header features the CVRWMG logo with two palm trees and the text "CVRWMG Cochise Valley Regional Water Management Group". Below the header is a navigation bar with links: Home | Setup | Logout. The main content area is titled "Welcome:" and contains a tabbed interface with four tabs: DESCRIPTION, OBJECTIVES, STRATEGIES, and FEASIBILITY. The "DESCRIPTION" tab is active, showing a "Previous" button and "Save", "Preview", "Submit", and "Next" buttons. The form is divided into two main sections: "PROJECT DESCRIPTION" and "Project Contact". The "PROJECT DESCRIPTION" section includes a "1. Project Title:" field with the text "RMC Watershed Restoration Project" and a "Required" label. The "Project Contact" section includes a note: "Eligible grant recipients include local public agencies, non-profit organizations, and tribal governments." followed by fields for "2. Name:" (Rosalyn Stewart, Required), "3. Title:" (Project Manager), "4. Agency/Organization:" (RMC Water & Environment, Required), "5. Address 1:" (4225 Executive Square, Required), "6. City, State, and Zip Code:" (City: San Diego, State: CA, Zip Code: 92037, Required), "7. Phone:" (858, 875, 7420, Ext: , Required), "8. Email:" (rstewart@rmcwater.com, Required), and "9. Can your contact information be shared?" (Yes, dropdown menu).

WELCOME

Home | Setup | Logout

DESCRIPTION OBJECTIVES STRATEGIES FEASIBILITY

Previous Save Preview Submit Next

PROJECT DESCRIPTION

1. Project Title: RMC Watershed Restoration Project Required

Project Contact

Eligible grant recipients include local public agencies, non-profit organizations, and tribal governments.

2. Name: Rosalyn Stewart Required

3. Title: Project Manager

4. Agency/Organization: RMC Water & Environment Required

5. Address 1: 4225 Executive Square Required

6. City, State, and Zip Code: City: San Diego State: CA Zip Code: 92037 Required

7. Phone: 858 875 7420 Ext: Required

8. Email: rstewart@rmcwater.com Required

9. Can your contact information be shared? Yes

Project Selection Criteria

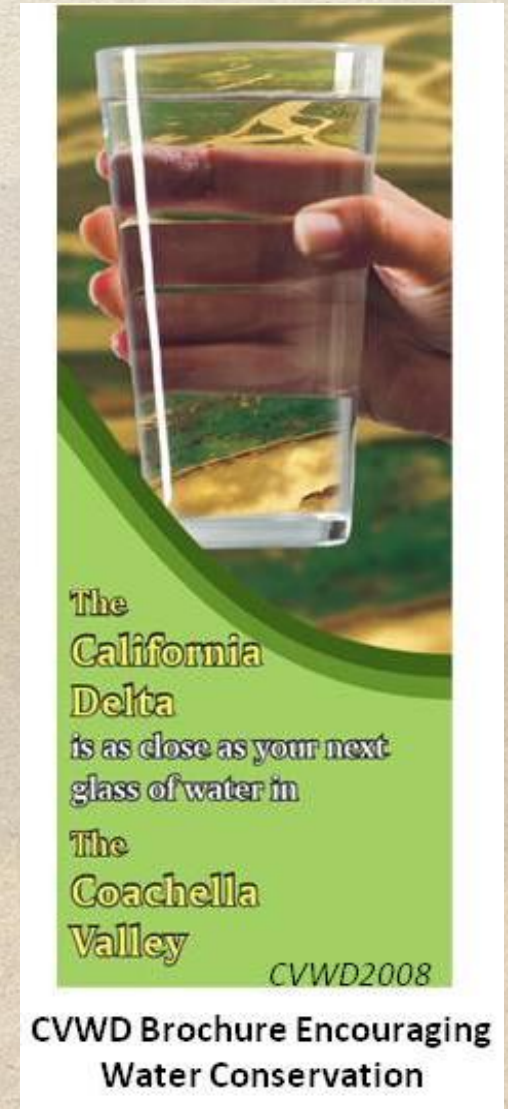
Component	Criterion	Scoring Procedure ¹	Points Assigned	Weighting	Subtotal
1. Principles of IRWM Planning	A. Addresses Multiple IRWM Plan Objectives	Score based on # of objectives addressed	4+ objectives = 20 pts 3 objectives = 15 pts 2 objectives = 10 pts 1 objective = 5 pts	11%	70
	B. Integrates Multiple Resource Management Strategies	Score based on # of strategies employed	8+ strategies = 20 pts 6-7 strategies = 15 pts 4-5 strategies = 10 pts 2-3 strategies = 5 pts	11%	
	C. Addresses a Statewide Priority	Score is based on Yes/No response	Yes = 10 pts No = 0 pts	6%	
	D. Linked to Other Projects	Score is based on Yes/No response	Yes = 10 pts No = 0 pts	6%	
	E. Involves More than One Partner	Score is based on Yes/No response	Yes = 10 pts No = 0 pts	6%	
2. Priorities of the Coachella Valley	A. Optimizes Water Supply Reliability	Score is based on Yes/No response	Yes = 20 pts No = 0 pts	11%	100
	B. Protects or Improves Water Quality	Score is based on Yes/No response	Yes = 20 pts No = 0 pts	11%	
	C. Manages Flood Risks	Score is based on Yes/No response	Yes = 20 pts No = 0 pts	11%	
	D. Optimizes Conjunctive Use of Surface and Groundwater Supplies	Score is based on Yes/No response	Yes = 20 pts No = 0 pts	11%	
	E. Directly Benefits Disadvantaged Communities	Score is based on Yes/No response	Yes = 20 pts No = 0 pts	11%	
3. Project Feasibility	A. Identified in Existing Plan	Score is based on Yes/No response	Yes = 10 pts No = 0 pts	6%	10
Total					180

The Ideal IRWM Project

- An integrated, multi-benefit water management projects that achieves one or more of IRWM objectives, and addresses priorities of the Coachella Valley:
 1. Optimizes Water Supply Reliability
 2. Protects or Improves Water Quality
 3. Manages Flood Risks
 4. Optimizes Conjunctive Use of Surface and Groundwater Supplies
 5. Directly Benefits Disadvantaged Communities

The Ideal IRWM Project

- **Regional Water Conservation Program**
 - Regional partnership involving five agencies
 - Provides considerable water supply savings across the Valley
 - Benefits disadvantaged communities



The Ideal IRWM Project

- **Groundwater Quality Protection Program – Desert Hot Springs**
 - Septic-to-sewer conversion project that extends the municipal sewer system to eliminate the need for on-site septic systems
 - Shovel-ready with CEQA completed and matching funds secured
 - Benefits disadvantaged communities located in Desert Hot Springs
 - Protects local groundwater by removing a potential source of pollutants

Prop 1E-Round 2 Grant Opportunity

- Proposition 1E Grant Program
 - Stormwater flood management funding
 - Projects must be included in an IRWM plan database to be eligible for consideration
 - Round 2 offers **\$92 million** in **statewide competition**. This is second and last round of Prop 1E funding from DWR.
 - Projects be submitted **individually**, not as part of an IRWM grant application
- Submit to database at IRWM website, www.cvrwmg.org
- Anticipated application deadline: **December 2012**

Any questions about how you submit a project for grant funding?

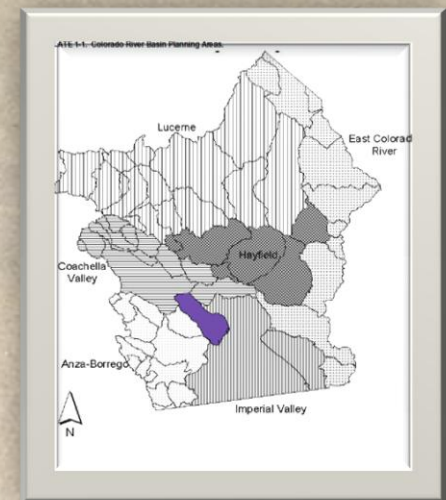
Salt and Nutrient Management

- *Purpose:* To manage salts and nutrients in groundwater supplies; to help streamline permitting for recycled water projects
- First workgroup convened on August 22nd 1:00-3:00 pm to discuss scope and data needs



Salt and Nutrient Management Progress to Date

- General approach is to try to keep to a streamlined effort
- Continuing to reach out to additional stakeholders
- Met with RWQCB to get their perspective on SNMP approach
- First Workshop:
 - Discussed specific concerns and questions stakeholders want to address as part of the SNMP
 - Reviewed SNMP process and water planning in Coachella Valley
 - Discussed draft approach to SNMP



Salt and Nutrient Management Next Steps

- Workshop No. 2: September 26
- Workshop No. 3: October 24
- Develop SNMP Workplan
 - Identify specific areas of concern to address
 - Consider model options
 - Identify existing data
 - Identify potential data gaps that SNMP may need to address
 - Further refine workplan via stakeholder input

Task	Options	Objectives	Deliverables
1. Establish Collaborative Process and Scope	• Technical Advisory Committee vs. • Stakeholder Advisory Committee • Who should be involved?	• Create trust/relations • Build support for SNMP • Create process for input/review	• Documented problem statement and scope acceptable to Stakeholders • Stakeholder meetings
2. Define Basin Characteristics and Water Management Goals	• Where are nutrients a concern? ◦ Which nutrients? ◦ Other constituents of concern? ◦ CECs? (Monitoring will likely be required for recharge of RW as part of anticipated SWRCB CEC Advisory Panel Findings)	• Define/refine water supply quantity situation (now and future) • Identify water quality concerns (now and future) • Review or collect data • Summarize existing GIV monitoring programs	• TM defining GIV basin characteristics on existing data monitoring and gaps • TM summarizing existing GIV monitoring and gaps • TM characterizing local water needs related to the GIV basin and identifies future water management plans (local, imported, rec. water, storm water, etc)
3. Conduct Salt and Nutrient Source Identification	• Conduct source identification/quantification with existing GIV model or simpler tool?	• Identify Salt, nutrient, and other constituent(?) sources • Quantify sources	• TM summarizes sources and existing/projected loadings
4. Conduct Salt and Nutrient Loading and Assimilative Capacity Analyses	• Use XLS or other tool in conjunction with existing GIV model or just use existing GIV model? • Determine if future projects will be part of analysis	• Determine extent of salt/nutrient loading • Identify potential problems (degradation) based on existing goals • Identify future problems based on future project	• TM summarizing results of analysis of existing condition and areas of salt or nutrient accumulation • TM summarizing results of analysis of future condition(s) and areas where salt
5. Identify and Assess Salinity and Nutrient Implementation Measures	• Needed for salt? • Needed for nutrients? • Need for other constituents?	• Identify potential management strategies to address S/N loadings and any potential degradation concerns	• TM summarizing potential implementation strategies • TM summarizing evaluation of the most feasible strategies
6. Develop Recommended Monitoring Plan		• Identify metrics to evaluate effectiveness of selected strategies • Establish framework for periodic audit	• TM summarizing future GIVs monitoring plan and future assessments of SNMP
7. Prepare Draft and Final Plans		• Prepare a clear and comprehensive SNMP requiring minimal revisions	• Draft SNMP for review by stakeholders • Final SNMP that is submitted to RWQCB
8. CEQA/NEPA	• Is this needed by the RWMG if not at BPA • If a BPA a CEQA Equivalent document must be prepared by or for the Regional Board	• Determine potential significant environmental impacts • Identify measures to avoid or mitigate impacts where feasible • Note: Preparation of an Initial Study, Negative Declaration	• To be determined in consultation with the RWQCB

Groundwater Quality Evaluation

- *Purpose:* To assess groundwater quality issues in and around DAC areas throughout the Valley
- First DAC workshop was held today!
September 13th 10:00 am-12:00 pm
before Planning Partners
meeting



DAC Groundwater Quality Evaluation - Work Flow Diagram

Collect & Evaluate Data

Identify Areas of
Concern

Identify Groundwater Quality
& COCs in Areas of Concern

Collect existing
monitoring plans

Identify and prioritize
data gaps

Recommend specific
studies to address data
gaps

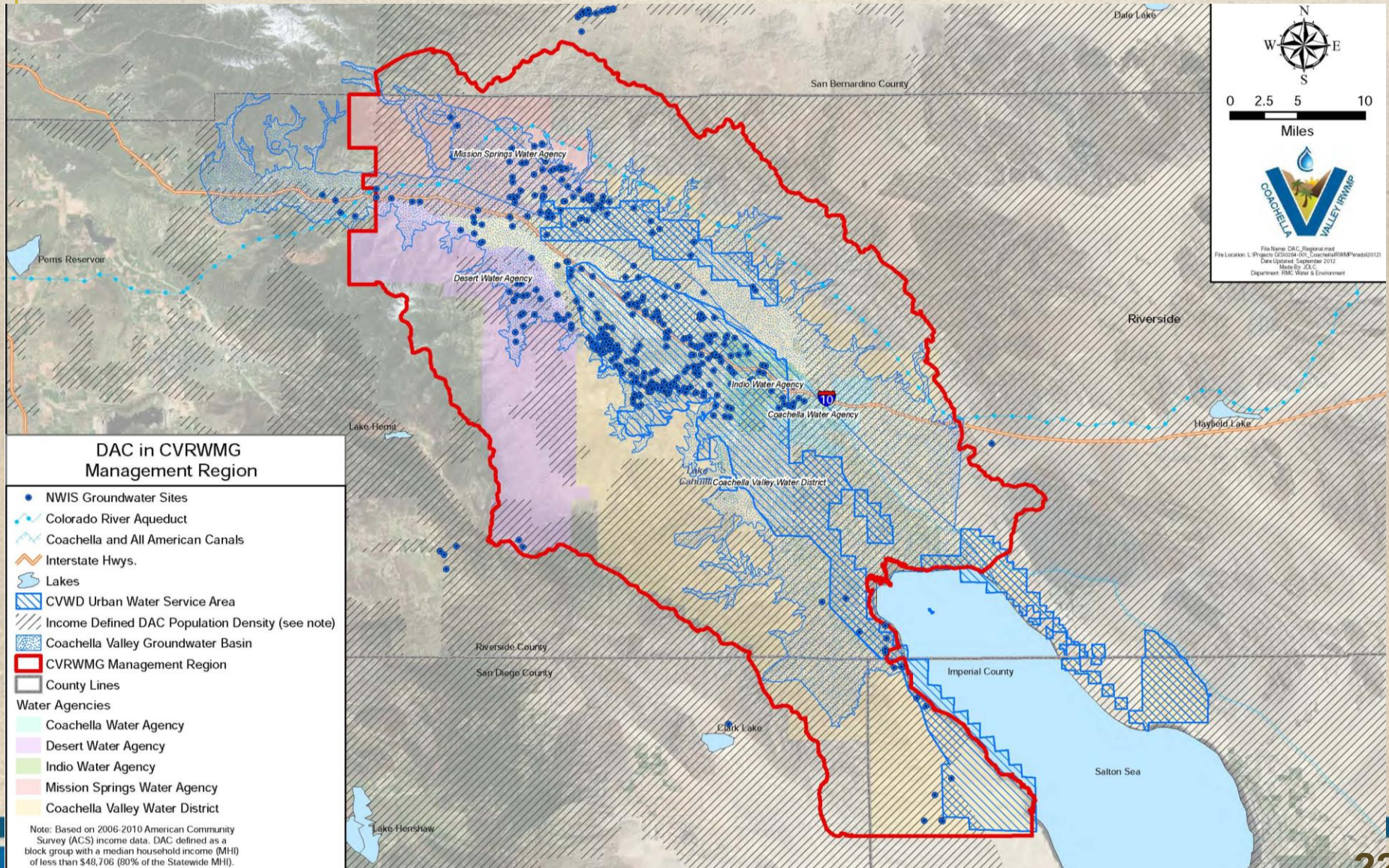
IRWM Projects to directly
address DAC needs

Identify & evaluate
projects to restore
drinking water quality

Coachella Valley Groundwater Basins



DAC Areas of Concern



List of Data Requested

- **Groundwater Quantity Data**
 - Groundwater elevations
 - DAC and/or municipal supply well locations
 - Well construction details (specifically screened depths)
- **Groundwater Quality Data**
 - Water quality/monitoring data
 - Information to establish the water-bearing zone that correlates with the water quality data
 - Geostatistical analyses
 - Plume delineations (natural and man-induced plumes), including depths
 - Information regarding existing groundwater treatment systems
- **Monitoring**
 - Monitoring programs
 - Location and screened depths of wells being monitored
 - Water quality sampling and analysis parameters
 - Frequency of sampling/data evaluation
 - Reporting methodologies
- **Other Information**
 - Location of septic systems
 - Groundwater Management Plans
 - Groundwater-specific studies

Example: GAMA Data

[GEOTRACKER GAMA HOME](#) | [GAMA HOME](#) | [SWRCB HOME](#) | [HOTSPOT LEGEND](#) | [TRANSLATION TABLE](#) | [CONTACT US](#) | [HELP](#)

GEOTRACKER GAMA

LOCAL INFORMATION

CITY
LA QUINTA

COUNTY
RIVERSIDE - [VIEW WATER REPORTS](#)

GROUNDWATER BASIN
COACHELLA VALLEY - INDIO (7-21.01)

[VIEW 209 ENVIRONMENTAL MONITORING WELL BORING LOGS](#)

☐ SUPPLY WELLS - CDPH (within one mile of actual location)
☐ SUPPLY WELLS - OTHER (within 1/2 mile of actual location)
☐ MONITORING WELLS - REGULATED SITES (exact locations displayed)
☐ ICONS WITH A CIRCLE AROUND THEM SIGNIFY A CLUSTER OF WELLS

ADDITIONAL TOOLS

☐ DEPTH-TO-WATER
☐ DEPTH-TO-WATER CHANGE
☐ GROUNDWATER ELEVATION

* The list of comparison concentrations can be found [here](#).

MAP SIZE: 640x480

485 MATCHING WELLS FOR *

DATASETS - ADDITIONAL INFORMATION

ENVIRONMENTAL MONITORING:
☒ Monitoring Wells - Water Board Regulated Sites

SUPPLY WELLS:
☒ Supply Wells - CDPH ☒ GAMA - SWRCB Domestic ☒ GAMA - USGS ☒ GAMA - LLNL ☒ DPR ☒ DWR

GIS LAYER - SELECTING A GIS LAYER WILL LIMIT YOUR QUERY TO RESULTS IN THAT GIS LAYER

Groundwater Basins | COACHELLA VALLEY - INDIO (7-21.01)

Wells With Results Above Comparison Concentration OF Any Chemical IN THE PAST ALL YEARS Go EXPORT

LOCATIONS FOUND

2 WELL CLUSTER - USGS
1 WELL - USGS
3 WELL CLUSTER - USGS
2 WELL CLUSTER - USGS
84 WELL CLUSTER - DHS

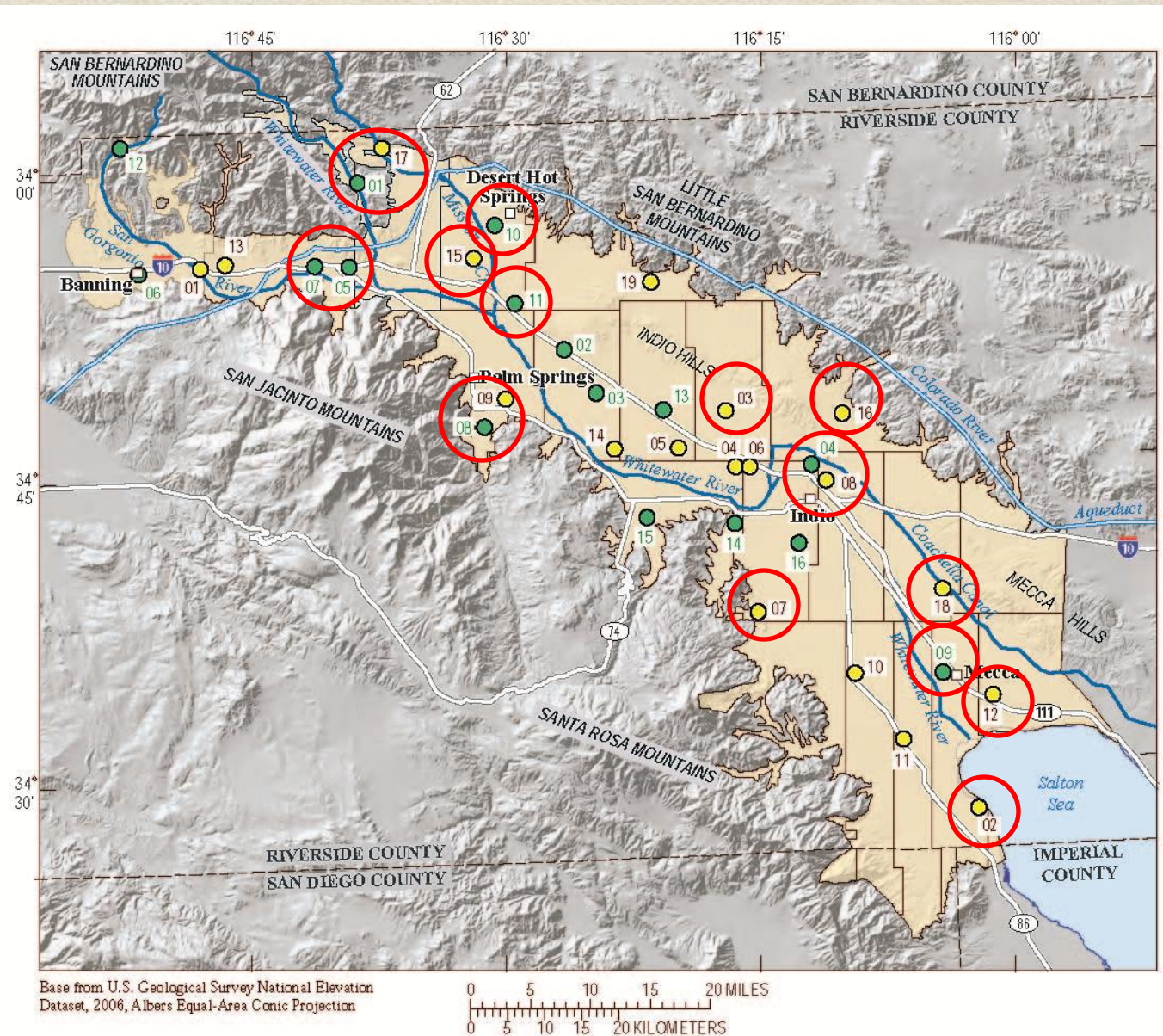
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MAP AN ADDRESS: coachella valley, ca Go!

Example: USGS Groundwater Quality Study

Source: Ground-Water Quality Data in the Coachella Valley Study Unit, 2007: Results from the California GAMA Program



Constituents Analyzed

- Dissolved oxygen
- pH
- Alkalinity
- Turbidity
- Volatile Organic Compounds
- Polar pesticides & degradedates
- Pesticides & degradedates
- Pharmaceutical compounds
- Dissolved Organic carbon
- Wastewater indicator compounds
- Perchlorate
- 1,2,3-trichloropropane
- Nutrients
- Major and minor ions and trace elements
- Arsenic, chromium and iron
- Hydrogen & oxygen isotopes
- Carbon & Carbon14 isotopes
- Uranium isotopes
- Radioactivity
- Noble gases
- Bacterial indicators
- Viral indicators

DAC Groundwater Quality Evaluation

- For any questions, or to provide groundwater quality data, please contact:

Leslie Dumas, RMC Water and Environment

ldumas@rmcwater.com

(925) 627-4100

Integrated Flood Management

- *Purpose:* To develop multi-benefit flood control projects that also enhance water quality, habitat, and recharge
- On hold – waiting for the State's Flood Futures Report



DAC Outreach Program

Program goals include:

- Expand upon previous DAC outreach to target individuals and groups representing DAC issues
- Engage members of DAC community in order to frame and articulate water management issues facing DACs

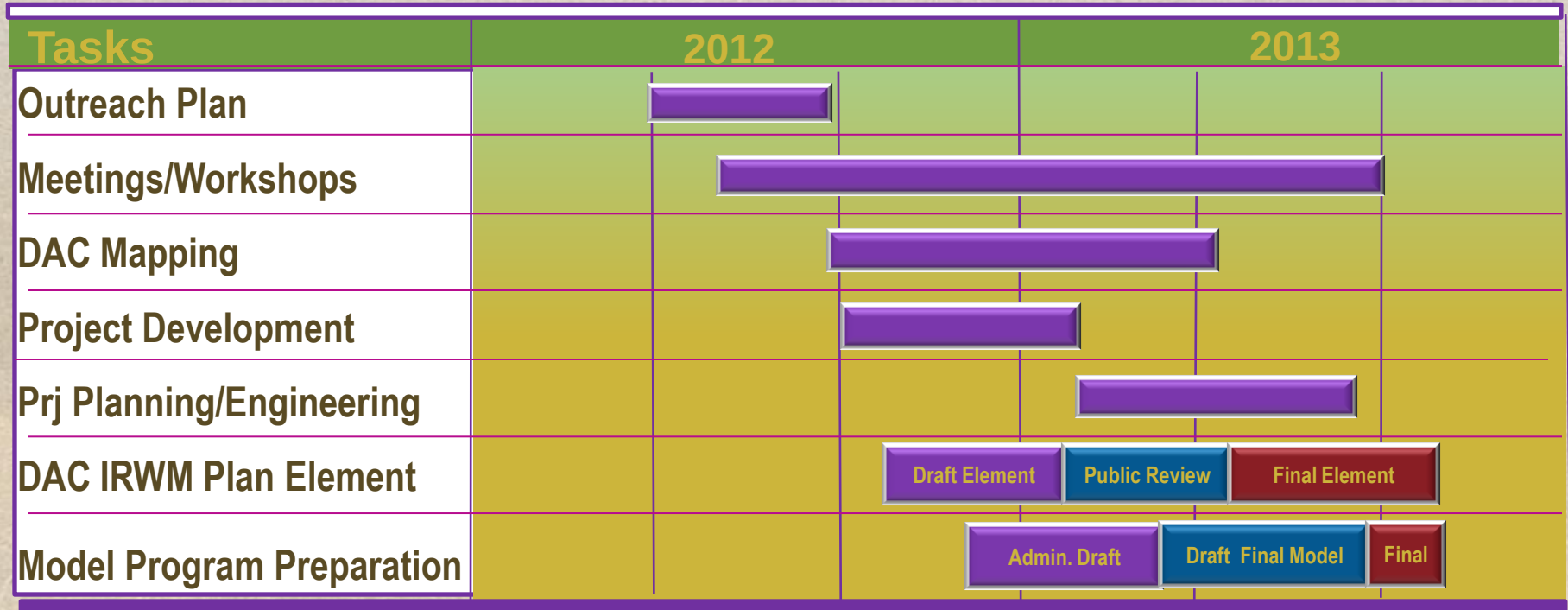


DAC Outreach Program

Current Efforts

- Work plan completed and accepted by DWR
- Completing outreach to stakeholders and interested organizations, all information compiled in a database
- Have begun DAC-focused mapping and characterization - currently seeking 501(c)3 organizations to assist in the process
- First (of five) DAC Workshop held today!
- Beginning flood mapping process
- Reaching out to DACs to provide project support for Prop 84-Round 2 Implementation Grant Funding

DAC Outreach Program Timeline 2012-2013



Next Steps

- Call for Projects for Prop 84-Round 2 – Submit to online database through October 19th

www.cvrwmg.org/projects

- Next Planning Partners Meeting – December 13th

Thank you for participating!

www.cvrwmg.org