

Appendix C

Community Outreach Materials

- Subcommittee Planning Materials
- Outreach Presentation Materials
- Community Census Data
- Disadvantaged Community
Census Data
- Town Council Contact Information
- EJCW Correspondence
- Community Sign In Sheets
- Newspaper Articles
- Worldwide Web Outreach

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Subcommittee Planning Materials

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AV IRWMP Public Outreach
2 Branches: (Stakeholder, Public)

Stakeholder Outreach:

1. WHAT: Identify & contact organizations that are not currently involved in the AV IRWMP process
2. WHY
 - a. Establish communication with potentially valuable (but currently missing) parties with interest in the Antelope Valley IRWMP.
 - b. Build awareness of the AV IRWMP
 - c. Expand our resource base
 - d. Improve upon our integrated plan
3. HOW
 - a. Identify missing agencies
 - i. How do we identify them?
 - ii. Local
 - iii. State
 - iv. Federal
 - v. Organizations/Companies with vested interest in AV happenings
 - vi. Political
 - vii. AV Press; Editorial Board
 - b. Obtain appropriate contact information
 - c. Secondary objective - consider potential stakeholder motivations for participation in order to tailor (or pitch) invitation appropriately, if necessary
 - d. Two methods of contact
 - i. Depending on the potential stakeholder category different methods of approach may be necessary (for example inviting a local agency vs. a politician)
 - ii. email (passive)
 - iii. call individuals (more aggressive)
4. WHEN
 - a. Immediate Action Required
 - b. Short – term, concentrated outreach
 - c. Anticipated Completion/Complete Research & Notification by February or March 2007
5. GOAL
 - a. When do we stop research of potential stakeholders?
 - b. How do we measure success?
 - i. Short term
 1. Contacted ‘X’ number of agencies for increased involvement.
 2. Increased participation: ‘Y’ number of agencies are now involved in our process.
 - ii. Long Term
 1. Increased number of endorsements

2. Better implementation

Public Outreach: General & DAC

1. WHAT:

- a. Identify methods to educate the community about developments in the IRWMP and encourage participation.
- b. Identify areas that will need more or different methods of outreach such as DACs

2. WHY

- a. Educate citizens about the process for improvement of their community
- b. Learn about the needs and concerns in areas of community where participation is unlikely, but impacts could be numerous such as DACs
- c. Greater approval of our IRWMP process; nurtures community ambassadors
- d. Build awareness of the AV IRWMP
- e. Expand our resource base
- f. Improve upon our integrated plan

3. HOW

- a. Identify outreach methods
 - i. Website
 - ii. TV
 - iii. Radio
 - iv. Newspapers
 - v. Flyers
 - vi. Mailings
 - vii. Schools
 - viii. Churches
 - ix. Politicians
 - x. Information Fairs/Local Fairs
 - xi. Community Centers
 - xii. Social Service Centers
 - xiii. Others?
- b. Identify DAC communities in AV
 - i. Potential obstacles?
 1. Language Barriers
 2. Apathy
 3. Differences between general outreach methods & DAC outreach methods; Identifying/Tailoring appropriate outreach methods
 4. Understanding their needs/wants
 5. Determining the best way that they can communicate with us

4. WHEN

- a. Immediate Action Required for community outreach plan development
- b. Community outreach to follow
- c. Two phases for outreach

- i. Short – term, concentrated outreach efforts to create overall public awareness and focused DAC awareness
- ii. Long – term, ongoing outreach to keep community aware of progress

5. GOAL?

- a. How do we measure success??

Communications Plan for the AV Regional Water Plan

Objective:

To implement a coordinated public outreach campaign to support the Antelope Valley Regional Water Plan that will:

- Encourage participation and solicit input into Plan development
- Educate about the purpose and benefits of the Plan
- Foster support for adoption and implementation of the Plan and its component projects

Target Audiences:

- Stakeholders
- General Public
- Voting Public
- Disadvantaged communities

Key Messages:

- Water supplies are too important to leave to chance.
- We all need to work together to ensure we have a water system that meets the area's needs now and in the future.
- We want your input about which projects are important to you.
- The time for action is now.
- The amount of water we have available determines the future growth of the Antelope Valley.
- Not planning and building the right projects now will cost the Antelope Valley \$x.
- Working together is the only way we can take advantage of funding from the State for regional projects.
- A unified Plan gives us a single and very strong voice as we go forward to pursue funding at the State and Federal level.
- This Plan allows all the communities of the Antelope Valley to act as one and create a workable, cohesive vision for the future.
- The best plan will include ideas and input from the widest variety of stakeholders possible.
- The integrated Plan allows each stakeholder to bring additional benefits to its customers that it wouldn't have been able to achieve alone. There is power in numbers and consensus.
- The Plan will bring a long-range benefit to the Valley and allow for continued agricultural, economical, environmental, and residential development.
- The Plan allows us to decide together on the most important and beneficial projects, get funding and support to build them, and implement the best possible water future for the Antelope Valley.
- People benefit from wise use of the land and water resources.

- Communities benefit from higher property values and attracting more employers.
- The Plan is a simple way for agencies to work together on overlapping planning efforts and produce the most effective projects.

Activities:

Activity			Cost
Community Outreach			
	Meetings	City property	
		Other property	\$2,000 ea
	Advertisements		\$ 500 ea
	Resident committees		Labor
	Presentations		Labor
Media Relations			
	Press releases		Labor
	Press briefing	City property	
		Other property	\$2,000 ea
	Media Tours		\$200 per bus
	Public Information Shows		Labor
	PSA		\$5,000
	Local Access Cable		
Bill Inserts			
Advertising	Newspaper		\$ 4,000
	Radio		\$ 15,000
	TV		\$ 8,000
	Billboards		\$ 15,000
Direct Mail	Design & Printing		
		Inhouse	Labor
		Contract	\$ 5,000
	Mail		\$ 15,000

Antelope Valley IRWMP Public Relations Subcommittee Meeting

Meeting Minutes and Action Items January 18, 2006

Meeting Attendees

John Mlynar	City of Palmdale	jmlynar@cityofpalmdale.org	661-267-5116
Claud Seal	RCSD	cseal@rosamondcsd.com	661-256-3411
Richard Caulkins	LACSD	rcaulkins@lacsds.org	866-422-8474
Katie Corbett	Corbett Professional Service	prkac@aol.com	661-947-2947
Claire Hervey Collins	LACSD	hervey@lbbslaw.com	213-680-5039
Brian Dietrick	LACSD	bdietrick@lacsds.org	562-699-7411x2703
David Pedersen	LACWWD	dpedersen@dpw.lacounty.gov	626-300-3317
TJ Kim	LACWWD	tjkim@dpw.lacounty.gov	626-300-3327

Meeting Minutes

- The meeting was opened with a brief background on the purpose of the Antelope Valley Integrated Regional Water Management (IRWM) Plan.
- The subcommittee drafted the following mission statement:

“To establish and implement a coordinated public outreach effort for the Antelope Valley IRWM Plan aimed at identifying all remaining stakeholders and soliciting their participation, educating stakeholders and general public on the purpose and process of the IRWM Plan, and garnering input and support for the adoption and implementation of the Plan and its components.”
- The subcommittee identified the following target audience:
 - a. General public
 - b. Elected officials
 - c. Stakeholders with interest in water (45+ invited stakeholders and additional stakeholders such as Mojave, California City, Phelan community, US Forest Service, Los Angeles World Airports, etc.)
 - d. Business community (local Chambers of Commerce, AV Board of Trade, Greater AV Economic Reliance, Greater AV Realtors' Association, BIA, etc.)
 - e. Community organizations (Town councils, Kiwanis, Rotary, Elks, etc.)
 - f. Disadvantaged communities

- The subcommittee discussed the following potential public relations vehicles:
 - a. Basic PowerPoint presentation including 7 to 10 slides providing information on the Antelope Valley IRWM Plan process, purpose, and importance. Each RWMG agency could present the informational presentation at a regular meeting of their City Council or Board. Also, individuals would be requested to give the presentation to key business and community organizations.
 - b. Press releases – prepared in advance and ready for release at key milestones in the plan development process.
 - c. Informational brochure (similar in format to the one published by ASCE for the Infrastructure Report Card).
 - d. Mini-Press Conference – organize a breakfast meeting/presentation for the editors of the Antelope Valley Press, Antelope Valley Daily News, Mojave Desert News, and other local papers.

Action Items

- LACWWD will prepare a draft press release on the formation of the Antelope Valley Regional Water Management Group and provide details on the next meeting (date/time/location) and circulate it to the subcommittee for review.
- The City of Palmdale will issue the press release once comments are incorporated.
- The subcommittee will draft universal presentation materials that can be used in various public outreach activities. A working meeting is scheduled for Wednesday, January 24th from 9 to noon at LACWWD to prepare the materials.
- Katie Corbett will give the presentation to the Antelope Valley Board of Trade on 02/06/07.
- The subcommittee will begin to prepare for a mini-press conference to educate local media (e.g., AV Press, Daily News, AV Magazine, Mojave Dessert News, Radio, TV, etc.) on the AV IRWM process.
- The subcommittee will report its progress and activities to the stakeholder group on Jan. 31st at the regular monthly meeting and present the draft presentation materials.

Public Outreach Subcommittee Meeting
May 31, 2007

Attending: Melinda Barrett, LAC; Brian Dietrick, CSD; Curtis Paxton, PWD;
Claud Seal, RCSD; Nicole West, City of Lancaster

1. Presentation schedule:

Littlerock

Thursday, June 14, 7:00 pm _____ & _____

Juneteenth Festival

Sun Village

Saturday June 16 10:00- 2:30 Linda Godin & Curtis Paxton

Saturday, 2:30 – 7:00 pm _____ & _____

Sunday June 17 10:00 – 2:30 _____ & _____

Sunday, 2:30 – 7:00 pm _____ & _____

Economic Development Corporation

California City

Thursday, June 21, 8am Claud & Nicole

Sun Village

Monday, June 25, 7:00 p.m. _____ & _____

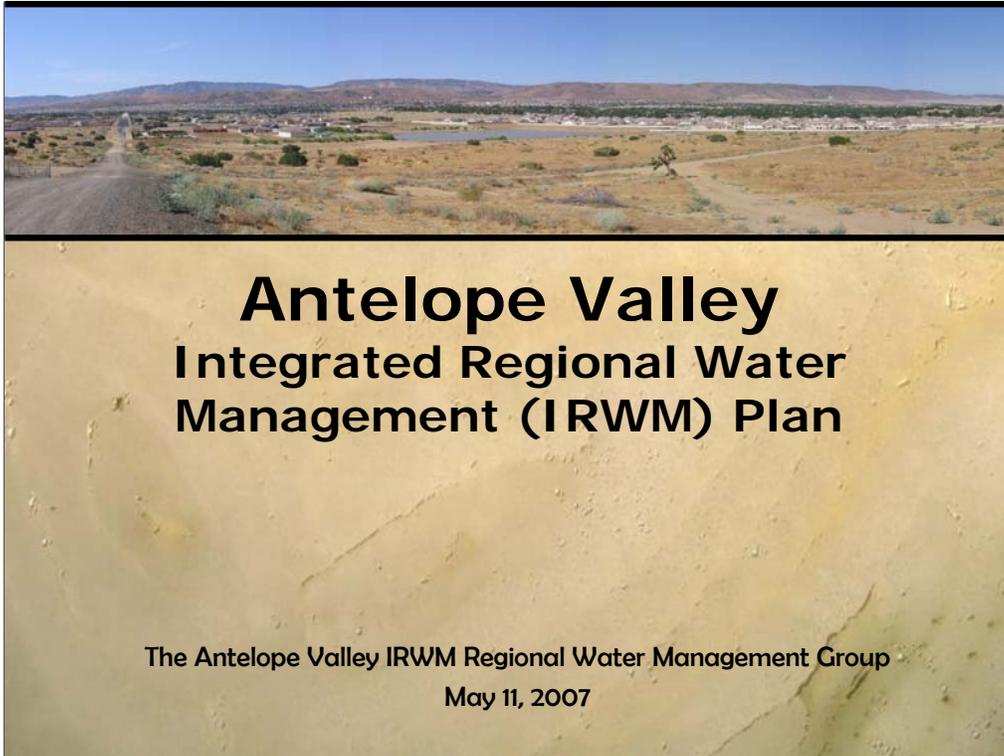
Juniper Hills

Wednesday, August 1, 6:00 p.m. Brian & Richard

2. Suggestions were made to bring a screen and address “adjudication questions” upfront. Adjudication is a separate issue and parties involved are participating in the IRWMP.
3. Spanish materials available upon request.
4. An effort should be made to encourage communities to take advantage of State and local resources to develop their project proposals. Roosevelt and Lake Los Angeles Town Councils have asked for 2nd meetings.
5. Discussion of public meetings for review and comment of Public Draft.
 - Decision was made to have one north and one south meeting on weekday evenings. Ken Kirby is available July 10 for a meeting in Palmdale.
 - Suggestion was made to videotape this meeting for later use on local access cable and perhaps to present in Rosamond at “north” meeting.
 - Public drafts will be available by request through the AV WaterPlan website and at public counters of willing stakeholders.
 - Press release will be distributed announcing public draft and sent to all AV media (including Daily News).

Outreach Presentation Materials

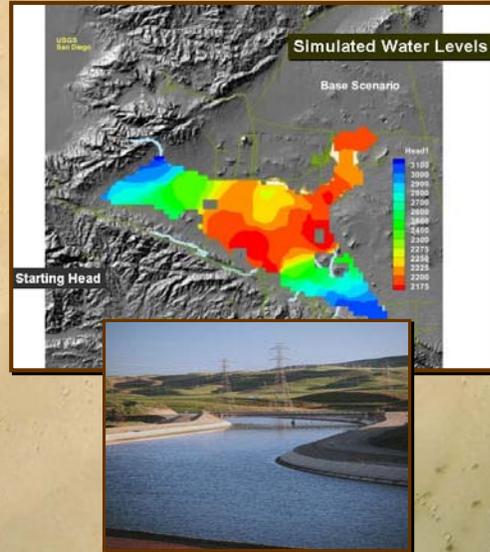
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Hello. This presentation has been created to introduce you to the Antelope Valley Water Plan, A.K.A. the Antelope Valley Integrated Regional Water Management Plan (IRWMP). It is meant to give some background information about the Antelope Valley and an overview about what an IRWMP is and the goals and benefits of regional water planning.

IMBALANCE: Supply

- Limited Water Supply
 - Limited Groundwater Supply
 - Lack of Reliable Imported Water
 - Water Quality Issues
 - Lack of Storage Capacity (Tanks, Facilities, etc...)



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However, within the Antelope Valley, there is a critical imbalance between water supply and water demand. Water is supplied to the region through two sources: 1) Groundwater and 2) Imported Water.

The groundwater is in limited supply, and there is not enough groundwater to meet the needs of our growing community. To illustrate this point, the picture in the upper right corner shows groundwater levels (or supply) over the region. The different colors represent different water levels, and the important thing to notice is that there is not one constant level for the entire region. The red areas have lower water levels and are located in the most populated area in the region. Simply put – with our expanding population, we can only pump so much water from our ground.

One answer to this problem might be to simply buy more imported water. The problem is that imported water is not reliable for two reasons: 1) we are allowed a fixed amount of water we can purchase and can only buy that amount, and 2) our existing water distribution system does not guarantee we can deliver more imported water even if it was available for purchase.

When these supply issues are combined with water quality problems like arsenic and other contaminants and a lack of storage facilities, the supply problems become limiting to our future.

IMBALANCE: Demands

- **Regional Demands**
 - Population Growth
 - Large Seasonal Use Fluctuations
 - Commercial & Industrial Development
 - Agricultural Needs
 - Water Recreation & Environment



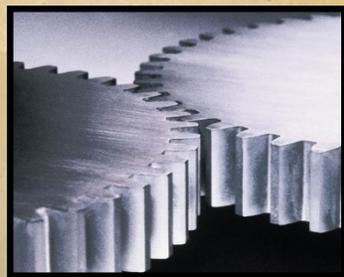
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Couple the supply problem with all of our supply needs, and it's easy to see the Antelope Valley needs more water than we have available, especially for the future.

And this imbalance will only increase over time... unless we do something about it now.

CHALLENGES

- Funding Limitations
- History of Regional Conflicts
 - Competition for Available Water Supplies
 - Single Agency or Single Purpose Perspective
 - Lack of Widespread Collaboration in Previous Efforts



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The water supply vs water demand issue is a big problem that requires big money and resources to address. As Mark Twain said, “Whiskey is for drinking. Water is for fighting about.” The Antelope Valley, like other areas, has a number of interested parties competing for limited water resources. Unfortunately, for this reason, it has also been difficult for different agencies to work together to find common solutions.

SOLUTION

- **Regional Planning**
- **Stakeholder Collaboration**
- **State Funding**
 - Proposition 50: \$64M
 - Proposition 84: \$1B
 - Proposition 1E: \$300M



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What is the solution to these obstacles?

Regional planning and stakeholder collaboration allow for efficient planning for the Antelope Valley. Working together allows for better ideas and better opportunities for the region. Also, the solutions to solve these large problems require a lot of money, and grant funding can provide much needed assistance for our region to begin closing the gap on these water problems.

AV WATER PLAN

Antelope Valley Integrated Regional Water Management Plan (IRWMP)

- Key Initiative of the California Water Plan
- Water Management Actions & Issues Are Interconnected
- IRWM Promotes a Sustainable, Efficient Approach to Water Management by Bringing Together Stakeholders, Interests, Issues, & Solutions



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The solution IS the IRWMP. But... what's an IRWMP??? IRWMP means Integrated Regional Water Management Plan, but while IRWMP is the technical name, you only need to know that the Antelope Valley Water Plan is a way to make sure that great projects are funded and built in our area to give us the best possible future. As the bottom picture illustrates, water issues - from drinking and irrigating water supply, to flooding from storms, to agricultural needs, to natural habitat and open space improvements – are ALL interconnected to one another. The IRWMP process recognizes that, and it is the way to get where we want to be in the future.

GOALS

- **To Develop a Comprehensive Plan That Will**
 - Address Water Supply Needs
 - Protect Water Quality
 - Protect the Environment
 - Improve Quality of Life
 - Provide Flood Management
 - Monitor Progress of Objectives
 - Ensure Future SMART Growth
- **To Provide A Framework for Agencies to Integrate Overlapping Programs & Projects**

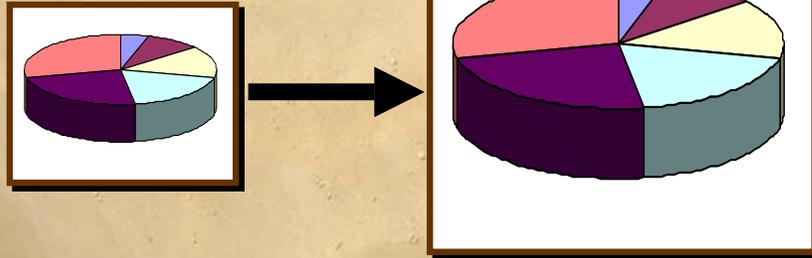


- **To Foster Coordination, Collaboration, & Communication in the Antelope Valley Region**
- **To Improve Regional Competitiveness for Grant Funding**

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The goals of the Antelope Valley Water Plan are to make sure that this area has enough water to meet supply needs, to ensure that our drinking water is of the highest quality, to prevent flooding, and to protect our environment while making the most efficient use of the resources we have. We want the plan to be a collection of ideas from all stakeholders and to include the best projects in the most effective and resourceful way. We also want to make sure we can be successful in competing for State grant funding to assist us in developing projects.

GOALS (Cont'd)



- **To Increase All Portions of the Water Supply Pie By Leveraging Grant Opportunities (Dependent Upon Regional Cooperation)**

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An important note to add is that the water supply goal of this Regional Water Plan is to increase the amount of water available to ALL groups in the region. For the purposes of this Plan, we aren't interested in deciding who gets what in terms of water. We want EVERYONE to get MORE. More water. More funding to support the regional projects that will bring in more water.

WHO IS PARTICIPATING?

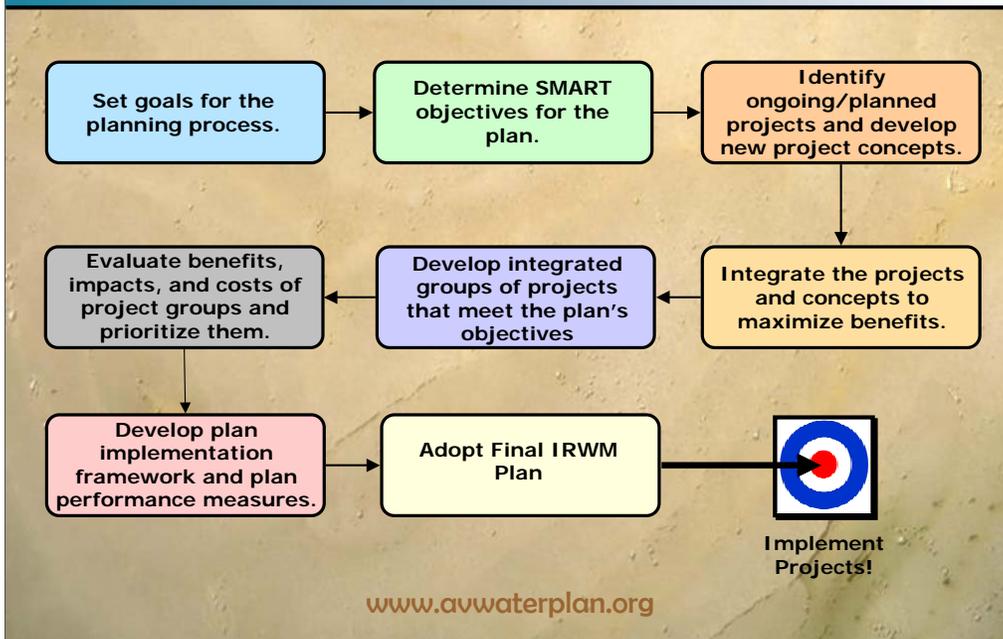
- Antelope Valley Board of Trade
- Antelope Valley Conservancy
- Antelope Valley-East Kern Water Agency
- Antelope Valley State Water Contractors Association
- Antelope Valley Resource Conservation District
- Antelope Valley United Water Purveyors
- Building Industry Association - Antelope Valley Chapter
- California Department of Fish & Game
- California Department of Health Services
- California Department of Water Resources
- California Regional Water Quality Control Board
- California State Parks
- City of Boron
- City of California City
- City of Lancaster
- City of Palmdale
- Edwards Air Force Base
- Kern County Board of Supervisors, District 2
- Kern County Farm Bureau
- Kern County Planning Department
- Lahontan Regional Water Quality Control Board
- Leona Valley Town Council
- Littlerock Creek Irrigation District
- Los Angeles County Board of Supervisors Office, District 5
- Los Angeles County Department of Public Works, Watershed Management Division
- Los Angeles County Department of Regional Planning
- Los Angeles County Farm Bureau
- Los Angeles County Sanitation Districts #14 & #20
- Los Angeles County Waterworks District #40, Antelope Valley
- Mojave Desert Mountain Resource Conservation and Development Council
- Mutual Water Companies
- National Education Association, Antelope Valley
- National Resource Conservation Service
- Palmdale Water District
- Quartz Hill Water District
- Rosamond Community Services District
- Roosevelt Town Council
- Sierra Club
- Sundale Mutual Water
- Sun Village Town Council
- Tybri Corporation at Edwards Air Force Base
- U.S. Department of Agriculture
- Westside Park Mutual Water Company
- White Fence Farms Mutual Water Company

And Growing...

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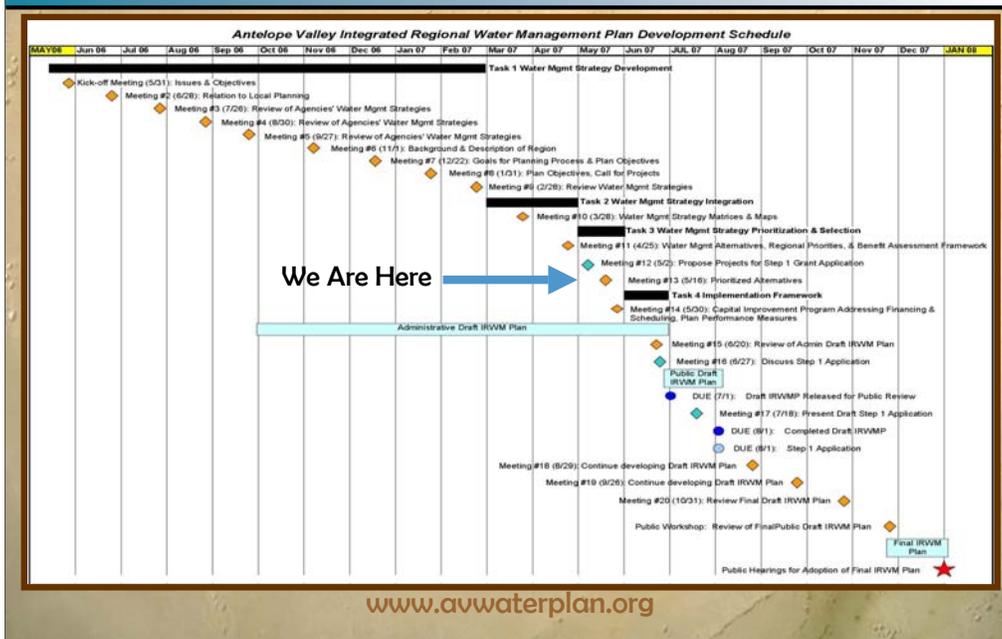
Who is participating so far? Currently, the IRWMP, or Antelope Valley Water Plan, includes participants ranging from Farming Organizations, Local and State Agencies, Sanitation Districts, Water Agencies, Cities, Community Groups, Town Councils, and the list continues to grow...

IRWMP PROCESS



Although this process looks complicated, it is important to note that we are currently in the middle row. We have set our goals and determined our objectives while identifying projects for the region. Now, we are reviewing and trying to integrate those projects to make them more efficient, resourceful, and beneficial to the Antelope Valley.

NEW SCHEDULE



Please don't bother trying to read the details on this milestone chart. This simply shows that we've been working on this plan for a while – since May of 2006. But if you notice, we're only about halfway through. We will submit a draft for Public Review in July, and then we will incorporate all the input we received to enhance our plan.

WHAT CAN YOU DO?



- Attend Future Plan Meetings
- Visit the AV Water Plan Website
- Provide Feedback About the Plan
- Suggest Helpful Contacts
- Tell Us How To Better Involve Your Community
- Spread the Word!



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Please join us in shaping a Plan that will help the Antelope Valley. To be successful, the Plan must include issues that are important to you and projects that you can support. Join us at our meetings, talk to your neighbors, and be part of the process.

SUPPORT

California Rural Legal Assistance <http://www.crla.org>

- Provides legal assistance and community education to rural farm working communities on environmental and social issues.

California Rural Water Association <http://www.calruralwater.org/>

- Provides technical assistance and training to rural water and wastewater systems.

California State Water Resources Control Board <http://www.waterboards.ca.gov/lahontan/>

- Provides resources to assist disadvantaged communities formulate and document project ideas and grant proposals

Center for Race, Poverty and the Environment <http://www.crpe-ej.org/>

- Provides litigation and technical assistance to communities facing environmental health and justice issues.

Rural Community Assistance Corporation <http://www.rcac.org/>

- Provides technical assistance, training and resources on a variety of issues rural communities may face.

Technical Outreach Services for Native American Communities (TOSNAC)

<http://bridge.ecn.purdue.edu/~tosnac/>

- Provides resources and technical support to increase Native American involvement in Environmental Issues.

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In addition to the technical assistance available by participating in the Antelope Valley Water Plan, there are a number of helpful organizations available to assist your community.

QUESTIONS?



*What will you do to help preserve
our water?*

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Thank you! Any Questions?

Please visit our website for more information.

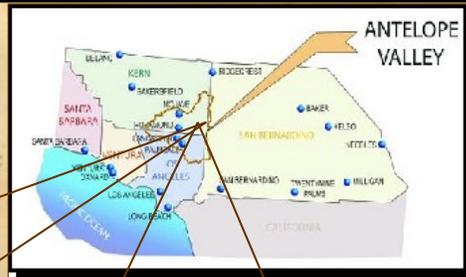
You can also contact Melinda Barrett at (626) 300-3362 or Heather Gallardy
at (626) 300-3324.



Hola. Esta presentación ha sido creada para presentarle el Plan del Agua del Valle del Antílope, alias el Plan Regional Integrado de la Administración del Agua del Valle del Antílope (IRWMP- siglas en inglés). Le trataremos de dar la mayor información acerca del Valle del Antílope, una descripción de lo que es un IRWMP, las metas y beneficios del planeamiento regional del agua.

EL VALLE DEL ANTILOPE

- 2400 Millas Cuadradas
- Incluye los Condados de Kern, Los Angeles, y San Bernardino
- Pila Cerrada, Figura Triangular

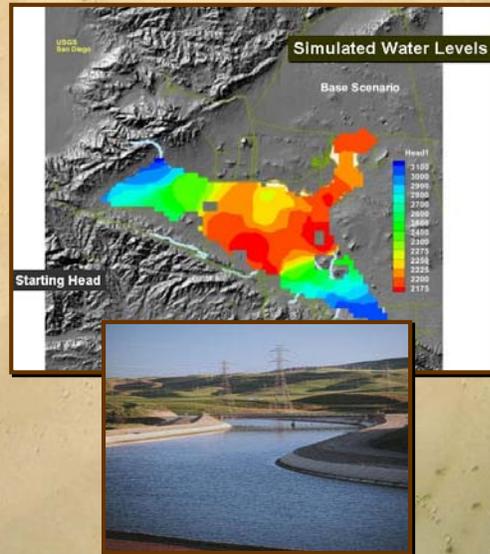


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La región del Valle del Antílope es un terreno rico de recursos agrícolas, naturales, y urbanos que varían. La región se extiende aproximadamente 2400 millas cuadradas e incluye porciones de los condados de Kern, Los Angeles, y San Bernardino. Es triangular y es un pila cerrada hidráulico que significa, simplemente, que el agua que entra en el Valle del Antílope no sale de la región naturalmente. Se evapora, filtra en la tierra, o se transporta en otro sitio.

DESEQUILIBRIO: Abastecimiento

- **Abastecimiento de Agua Limitada**
 - Abastecimiento de Agua Subterránea Limitada
 - Carencia de confianza al importar el agua
 - Problemas con la Calidad del Agua
 - Falta de Capacidad de los Almacenamientos (Tanques, Facilidades, etc...)



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Sin embargo, dentro del Valle del Antílope, hay un desequilibrio crítico entre el abastecimiento de agua y la demanda del agua. El agua se provee a la región a través de dos fuentes: 1) agua subterránea y 2) agua importada. La agua subterránea está en cantidades limitadas, y no hay bastante agua subterránea para satisfacer las necesidades de nuestra comunidad cada vez mayor. Para ilustrar este punto, el cuadro en la esquina derecha superior demuestra niveles de la agua subterránea (o suministro) sobre la región. Los colores diversos representan los diferentes niveles del agua, y lo importante a notar, es que no hay un nivel constante para la región entera. Las áreas rojas tienen niveles de agua más bajos y se localizan en el área más poblada de la región. Puesto simplemente - con nuestra población que crece, solamente podemos bombear cierta cantidad de agua de nuestra tierra. Una solución a este problema puede ser simplemente comprar más agua importada. El problema es que el agua importada no es confiable por dos razones: 1) se nos permite una cantidad fija de agua que podemos comprar y solamente podemos comprar esa cantidad, y 2) nuestro sistema existente de la distribución del agua no garantiza que podemos entregar más agua importada aunque *estuviera* disponible para la compra. Cuando estas preocupaciones del suministro se combinan con problemas de la calidad del agua como el arsénico y otros contaminantes y una carencia de instalaciones de almacenamiento, los problemas del suministro limitan nuestro futuro.

DESEQUILIBRIO: Demanda

- **Demanda Regional**

- Crecimiento de la Población
- Gran Variación en el Uso de Agua en las Temporadas
- Desarrollo Comercial e Industrial
- Necesidades Agrícolas
- Agua para Recreación y el Medio Ambiente



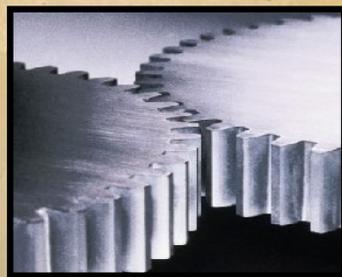
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Junte el problema del suministro con todas nuestras necesidades del suministro, y es fácil ver que el Valle del Antílope necesita más agua de la que tenemos disponible, especialmente para el futuro.

Este desequilibrio seguirá aumentando mientras más pasa el tiempo a menos que hagamos ahora algo al respecto.

DESAFIOS

- Limitaciones de los Fondos
- Historia de los Conflictos Regionales
 - Competencia por el abastecimiento de Agua Disponible
 - Un Perspectivo de Agencia Sola o un Solo Propósito
 - Falta de Colaboración Extendida en Esfuerzos Previos



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El asunto del abastecimiento del agua contra la demanda del agua es un problema grande que requiere mucho dinero y recursos para tratar. Como dijo Mark Twain, “El whisky está para beber. El agua está para luchar por ella.” El Valle del Antílope, como otras áreas, tiene un número de partidos interesados en competir por los limitados recursos de agua. Desafortunadamente, por esta razón, ha sido difícil que diferentes agencias trabajen juntas para encontrar soluciones comunes.

SOLUCION

- **Planeamiento Regional**
- **Colaboración de los accionistas**
- **Fondos del Estado**
 - Proposición 50: \$64M
 - Proposición 84: \$1B
 - Proposición 1E: \$300M



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¿Cuál es la solución a estos obstáculos?

El planeamiento regional y la colaboración de los accionistas permiten el planeamiento eficiente para el Valle del Antílope. Trabajando junto permite ideas mejores y oportunidades mejores para la región. También, las soluciones para estos problemas tan grandes requieren mucho dinero, y los fondos del subsidio pueden proporcionar la ayuda tan necesaria para nuestra región para comenzar a cerrar la distancia entre estos problemas del agua.

PLAN DEL AGUA DEL VALLE DEL ANTILOPE

El Plan Regional Integrado de la Administración del Agua del Valle del Antílope (IRWMP)

- Iniciativa Clave del Plan del Agua de California
- Las Acciones y los Asuntos del Agua son Interrelacionados.
- IRWM Promueve un Acercamiento Sustentable y Eficiente a la Administración del Agua por Medio de Juntar los Accionistas, los Intereses, los Asuntos, y las Soluciones

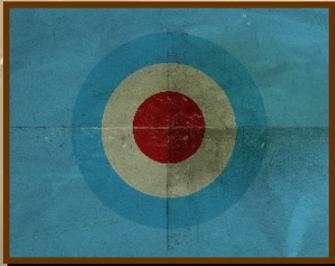


www.avwaterplan.org

La solución ES el IRWMP. Pero...¿¿¿Qué es un IRWMP??? IRWMP quiere decir Plan Regional Integrado de la Administración del Agua del Valle del Antílope (IRWMP- siglas en inglés), pero mientras IRWMP es el nombre técnico, sólo necesitan saber que el Plan del Agua del Valle del Antílope es una manera de asegurar que grandes proyectos son fundados y construidos en nuestra área para darnos el futuro mejor posible. Como demuestra el dibujo abajo, problemas del agua- de agua potable y suministros del agua, a aguas de tormentas, a necesidades agrícolas, a ambiente natural y mejoramientos de espacios abiertos- son TODOS interconectados el uno al otro. El proceso del IRWMP reconoce eso, y es la manera de llegar a donde queremos estar en el futuro.

METAS

- **Desarrollar un Plan Exhaustivo Que**
 - Abocará las Necesidades del Abastecimiento del Agua
 - Protegerá la Calidad del Agua
 - Protegerá el Medio Ambiente
 - Mejorará la Calidad de Vida
 - Proveerá Administraciones de Inundaciones
 - Controlará el Progreso de los Objetivos
 - Asegurará el Crecimiento Inteligente en el Futuro
- **Proveer un Marco de Trabajo para que las Agencias Integren Programas y Proyectos Comunes**

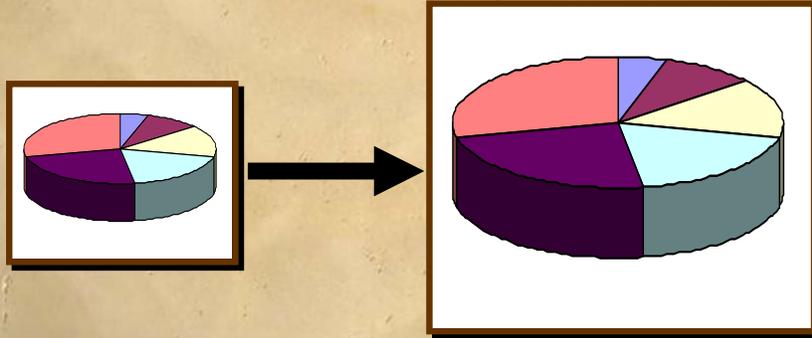


- **Fomentar la Coordinación, Colaboración, y Comunicación en la Region del Valle del Antílope**
- **Mejorar la Competitividad Regional para Fondos del Subsidio**

www.avwaterplan.org

Las metas del Plan del Valle del Antílope están para asegurarse que esta área tenga bastante agua para satisfacer las necesidades del suministro, para asegurar que nuestra agua potable sea de la mejor calidad, para prevenir inundaciones, y para proteger nuestro medio ambiente mientras hacemos el uso más eficiente de los recursos que tenemos. Queremos que el plan sea una colección de ideas de todos los accionistas y que incluya los mejores proyectos en la manera más efectiva y hábil. También queremos asegurarnos que podemos tener éxito en competir por fondos monetarios del subsidio del estado para ayudarnos en desarrollar proyectos.

METAS (Continuación)



- **Aumentar Todos los Porciones del Porcentaje del Abastecimiento del Agua por Medio de Posibilidades de Oportunidades del Subsidio (Dependiendo en la Cooperación Regional)**

www.avwaterplan.org

Algo importante que agregar es que la meta del abastecimiento de agua de este Plan Regional del Agua es incrementar la cantidad de agua disponible para TODOS los grupos de la región. Para el propósito de este Plan, no estamos interesados en decidir quién recibe que en terminos de agua. Queremos que TODOS reciban MAS. Más agua. Más fondos para poder apoyar los proyectos regionales que traerán más agua.

¿QUIEN ESTA PARTICIPANDO?

- Antelope Valley Board of Trade
- Antelope Valley Conservancy
- Antelope Valley-East Kern Water Agency
- Antelope Valley State Water Contractors Association
- Antelope Valley Resource Conservation District
- Antelope Valley United Water Purveyors
- Building Industry Association - Antelope Valley Chapter
- California Department of Fish & Game
- California Department of Health Services
- California Department of Water Resources
- California Regional Water Quality Control Board
- California State Parks
- City of Boron
- City of California City
- City of Lancaster
- City of Palmdale
- Edwards Air Force Base
- Kern County Board of Supervisors, District 2
- Kern County Farm Bureau
- Kern County Planning Department
- Lahontan Regional Water Quality Control Board
- Leona Valley Town Council
- Littlerock Creek Irrigation District
- Los Angeles County Board of Supervisors Office, District 5
- Los Angeles County Department of Public Works, Watershed Management Division
- Los Angeles County Department of Regional Planning
- Los Angeles County Farm Bureau
- Los Angeles County Sanitation Districts #14 & #20
- Los Angeles County Waterworks District #40, Antelope Valley
- Mojave Desert Mountain Resource Conservation and Development Council
- Mutual Water Companies
- National Education Association, Antelope Valley
- National Resource Conservation Service
- Palmdale Water District
- Quartz Hill Water District
- Rosamond Community Service District
- Roosevelt Town Council
- Sierra Club
- Sundale Mutual Water
- Sun Village Town Council
- Tybrin Corporation at Edwards Air Force Base
- U.S. Department of Agriculture
- Westside Park Mutual Water Company
- White Fence Farms Mutual Water Company

Y Estamos Creciendo...

www.avwaterplan.org

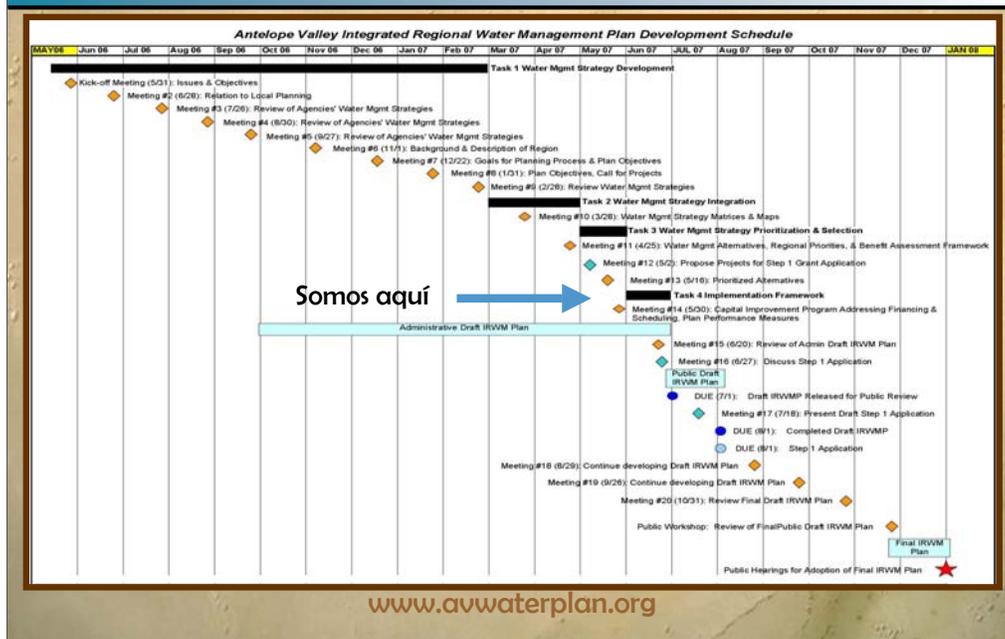
¿ Hasta ahorita quién participa? Por el momento, el IRWMP, el Plan del Agua del Valle del Antílope incluye participantes desde Organizaciones Granjeras, Agencias Locales y Estatales, Distritos de Saniamento, Agencias de Agua, Ciudades, Grupos Comunitarios, Ayuntamientos, y la lista sigue creciendo...

EL PROCESO DE IRWMP



Aunque este proceso se ve complicado, es importante notar que ahorita estamos en la línea media. Hemos marcado nuestras metas y determinado nuestros objetivos mientras identificamos proyectos para la región. Hoy, estamos revisando y tratando de integrar estos proyectos para hacerlos más eficientes, hábiles, y beneficiarios al Valle del Antílope.

HORARIO NUEVO



Favor de no molestarse al tratar de leer los detalles en esta gráfica de eventos. Simplemente demuestra que hemos estado trabajando en este plan por un tiempo - desde mayo del 2006. Pero si se da cuenta, solamente estamos aproximadamente a medio camino. Publicaremos un anteproyecto para el repaso del público en julio, y entonces incorporaremos toda la aportación que hemos recibido para mejorar nuestro plan.

¿QUE PUEDEN HACER UDS.?



- Asistan a las juntas futuras de planeamiento
- Visiten Nuestra Página de Internet del Plan del Agua del Valle del Antílope
- Proporcionen sus Opiniones Acerca del Plan.
- Sugieran Contactos que Puedan Ayudar
- Nos Digan como Podemos Involucrar Mejor a su Comunidad
- ¡Pasen la Palabra!



www.avwaterplan.org

Favor de reunirse con nosotros para formar un Plan que ayudará el Valle del Antílope. Para tener éxito, el Plan debe incluir asuntos que son importantes a Uds. y proyectos que Uds. puedan apoyar. Reúnanse con nosotros en nuestras juntas, hablen con sus vecinos, y sean parte del proceso.

APOYO

Asistencia Legal Rural de California <http://www.crla.org>

- Provee asistencia legal y educación comunitaria sobre el medio ambiente y problemas sociales a comunidades rurales que estén trabajando en granjas.

Asociación del Agua Rural de California <http://www.calruralwater.org/>

- Provee asistencia técnica y entrenamiento a sistemas del agua rural y desechos de agua.

Mesa Directiva del Control de los Recursos del Agua del Estado de California

<http://www.waterboards.ca.gov/lahontan/>

- Provee recursos para asistir a comunidades con desventajas a formular y documentar ideas de proyectos y propuestas de subsidios.

Centro para Raza, Pobreza, y el Medio Ambiente <http://www.crpe-ej.org/>

- Provee litigación y asistencia técnica a las comunidades que se encuentran con problemas de salud del medio ambiente y problemas de justicia.

Corporación de Asistencia a las Comunidades Rurales <http://www.rcac.org/>

- Provee asistencia técnica, entrenamiento, y recursos en una variedad de problemas que las comunidades rurales pueden enfrentar.

Servicios de Ayuda Técnica para las Comunidades de los Americanos Nativos

(TOSNAC - siglas en inglés) <http://bridge.ecn.purdue.edu/~tosnac/>

- Provee recursos y apoyo técnico para incrementar la participación de los Americanos Nativos en problemas del medio ambiente.

www.avwaterplan.org

En adición a la ayuda técnica disponible por medio de participar en el Plan del Agua del Valle del Antílope, hay un vario número de organizaciones disponibles para ayudar a su comunidad.

¿PREGUNTAS?



¿Qué harán Uds. para ayudar a preservar nuestra agua?

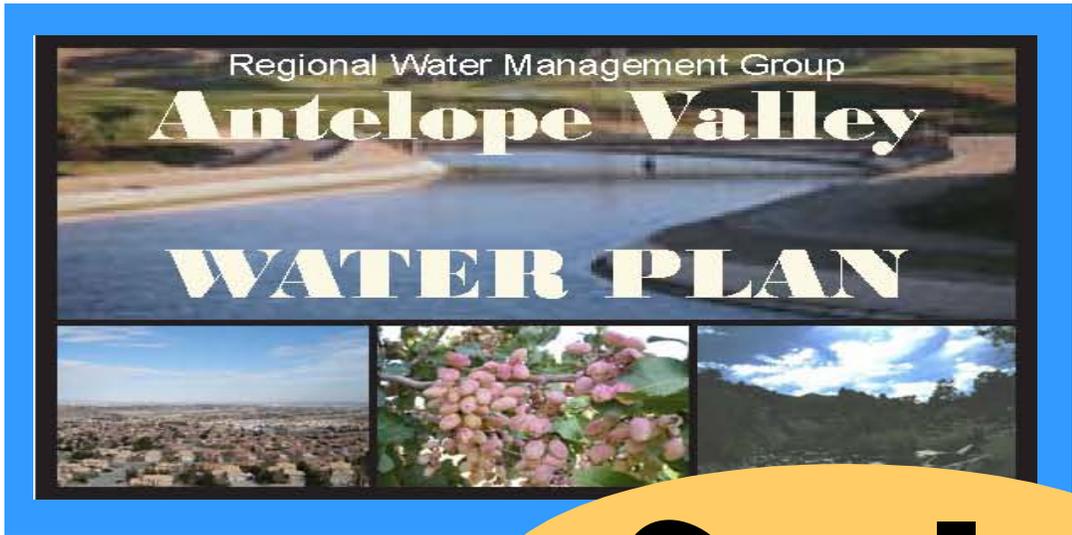
www.avwaterplan.org

¡Gracias! ¿Alguna pregunta?

Para más información, favor de visitar nuestro sitio de internet.

También se puede comunicar con Melinda Barrett al (626) 300-3362

o Heather Gallardy al (626) 300-3324.



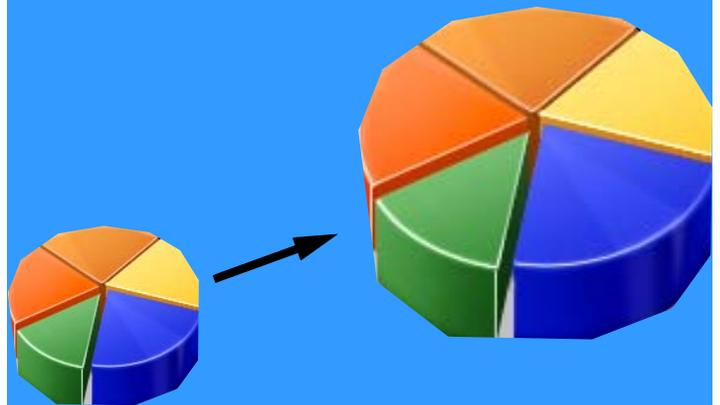
Goals

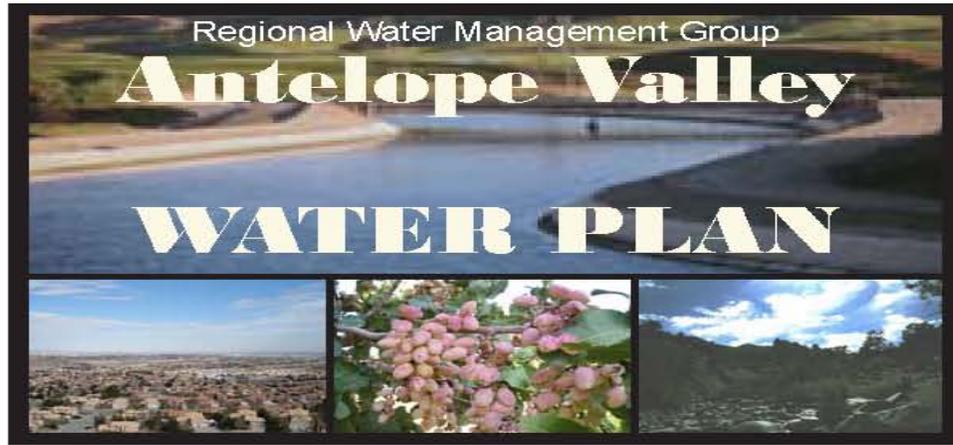
1. To Develop a Comprehensive Plan That Will

- ◆ Address Water Supply Needs
- ◆ Protect Water Quality
- ◆ Protect the Environment
- ◆ Improve Quality of Life
- ◆ Provide Flood Management
- ◆ Monitor Progress of Objectives
- ◆ Ensure Future SMART Growth

2. To Provide A Framework to Integrate Overlapping Programs & Projects Through Coordination, Collaboration, & Communication

3. To Increase All Portions of the Water Supply Pie By Leveraging Grant Funding Opportunities

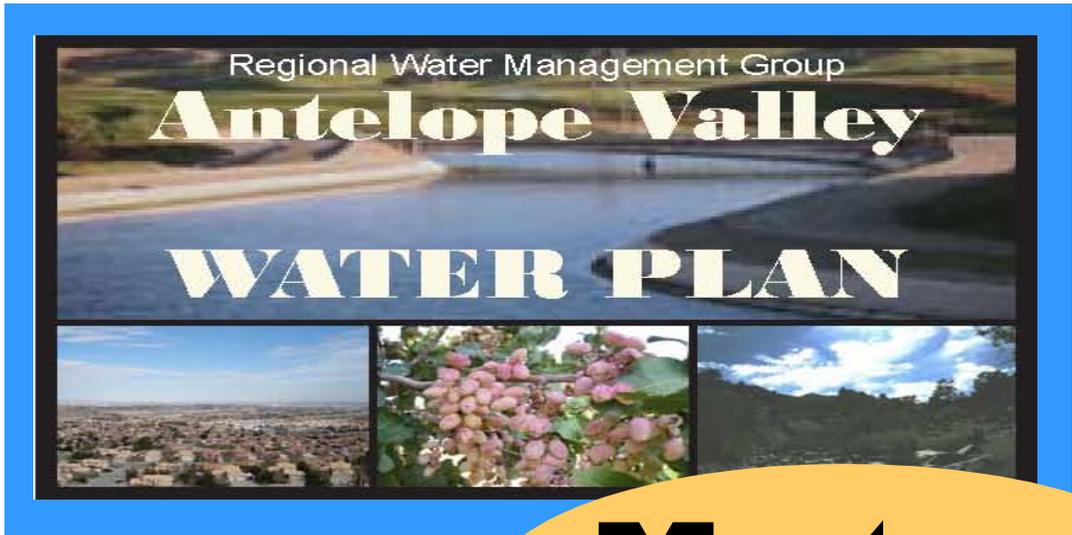




MEETING SCHEDULE

Meeting	Date	Time**	Location	Purpose
13	5/16/07	9:30am-2:30pm	LA County Lancaster Public Library, 601 W. Lancaster Blvd., Lancaster	Implementation Framework
14	5/30/07	9am-2:30pm	Larry Chimbole Cultural Center, 38350 Sierra Highway, Palmdale	Technical Analysis, Plan Performance Measures
15	6/13/07	9am-2:30pm	Larry Chimbole Cultural Center, 38350 Sierra Highway, Palmdale	Review Admin Draft IRWM Plan
16	6/27/07	9am-2:30pm	Larry Chimbole Cultural Center, 38350 Sierra Highway, Palmdale	Discuss Prop 50 Step 1 Application
17	7/11/07	9am-1:30pm	City of Lancaster City Hall, EOC Room, 44933 N. Fern Avenue, Lancaster	Present Draft Prop 50 Step 1 Application
18	8/29/07	9am-2:30pm	Larry Chimbole Cultural Center, 38350 Sierra Highway, Palmdale	Refine Draft IRWM Plan
19	9/26/07	9am-2:30pm	Larry Chimbole Cultural Center, 38350 Sierra Highway, Palmdale	Refine Draft IRWM Plan
20	10/24/07	9am-2:30pm	Larry Chimbole Cultural Center, 38350 Sierra Highway, Palmdale	Review Final Draft IRWM Plan

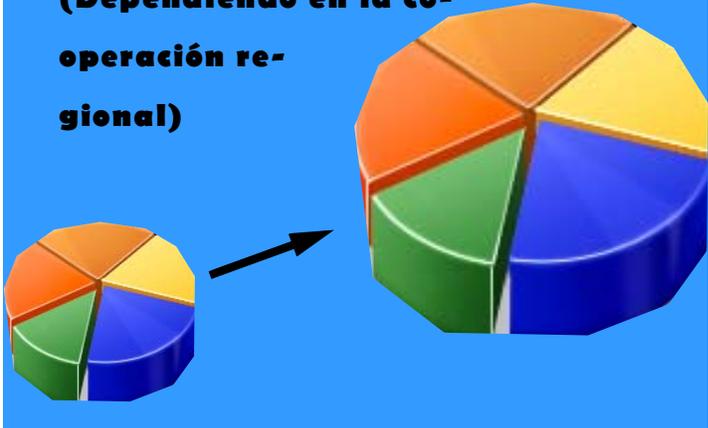
**Note that these meeting times may be reduced depending on plan progress.

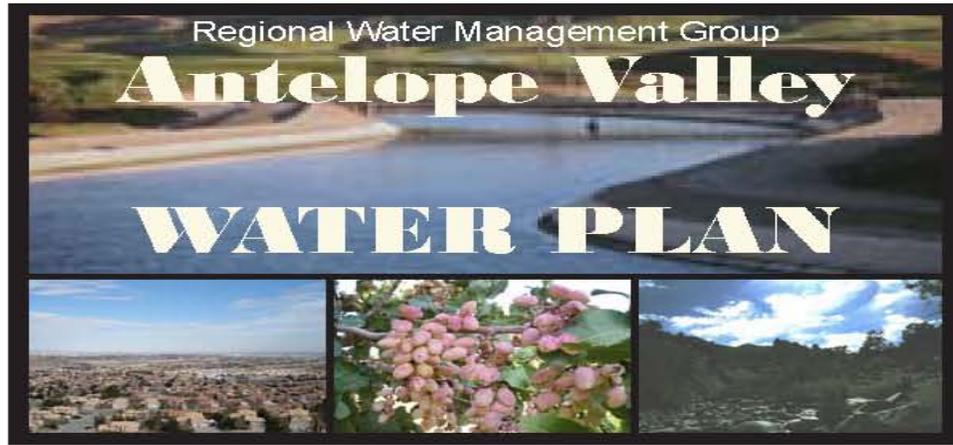


Metas

- 1. Desarrollar un plan exhaustivo que**
- ◆ Abocará las necesidades del abastecimiento del agua
 - ◆ Protegerá la calidad del agua
 - ◆ Protegerá el medio ambiente
 - ◆ Mejorará la calidad de vida
 - ◆ Proveerá gerencias de inundaciones
 - ◆ Controlará el progreso de los objetivos
 - ◆ Asegurará el crecimiento inteligente en el futuro

- 2. Proveer un marco de trabajo para que las agencias integren programas y proyectos comunes por coordinación, colaboración, y comunicación.**
- 3. Aumentar todos los porciones del porcentaje del abastecimiento del agua por medio de posibilidades de oportunidades del subsidio (Dependiendo en la cooperación regional)**





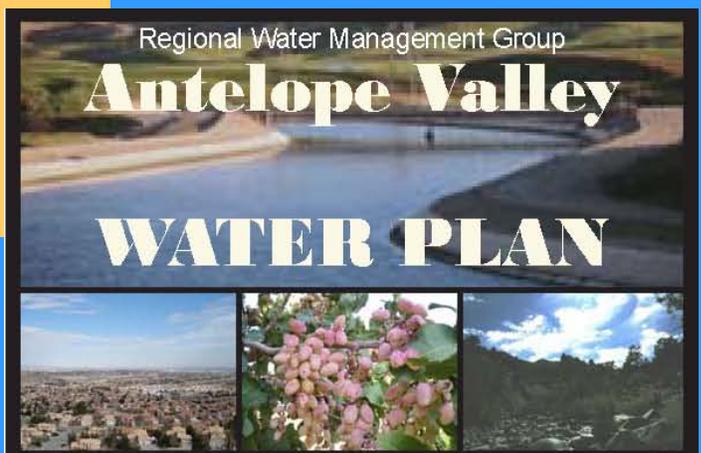
Horario Acelerado

Junta del Plan de IRWM del Valle del Antilope	Fecha	Hora**	Lugar	Propósito
13	5/16/07	9:30am-2:30pm	Biblioteca Pública de Lancaster del Condado de Los Angeles, 601 W. Lancaster Blvd., Lancaster <i>Salón reservado de 9am a 4:30pm</i>	Implementación del Marco de Trabajo
14	5/30/07	9am-2:30pm	Centro Cultural de Larry Chimbole, 38350 Sierra Highway, Palmdale	Análisis Técnico, Medidas del Desempeño del Plan
15	6/13/07	9am-2:30pm	Centro Cultural de Larry Chimbole, 38350 Sierra Highway, Palmdale	Revisar el Anteproyecto Administrativo del Plan del IRWM
16	6/27/07	9am-2:30pm	Centro Cultural de Larry Chimbole, 38350 Sierra Highway, Palmdale	Discutir 1 er Paso de la Solicitud de la Proposición 50
17	7/11/07	9am-1:30pm	Municipio de la Ciudad de Lancaster, 44933 N. Fern Avenue, Lancaster	Presentar el Anteproyecto del 1 er Paso de la Solicitud de la Proposición 50
18	8/29/07	9am-2:30pm	Centro Cultural de Larry Chimbole, 38350 Sierra Highway, Palmdale	Refinar el Anteproyecto del Plan del IRWM
19	9/26/07	9am-2:30pm	Centro Cultural de Larry Chimbole, 38350 Sierra Highway, Palmdale	Refinar el Anteproyecto del Plan del IRWM
20	10/24/07	9am-2:30pm	Centro Cultural de Larry Chimbole, 38350 Sierra Highway, Palmdale	Repasar el Anteproyecto Ultimo del Plan del IRWM

**Note que el horario de estas juntas puede ser reducido dependiendo en nuestro progreso.

Eligible Project Types

- ◆ **Programs for water supply reliability, water conservation, and water use efficiency**
- ◆ **Storm water capture, storage, treatment, and management**
- ◆ **Removal of invasive non-native plants, the creation and enhancement of wetlands, and the acquisition, protection, and restoration of open space and watershed lands**
- ◆ **NPS pollution reduction, management, and monitoring**
- ◆ **Groundwater recharge and management projects**
- ◆ **Contaminant and salt removal through reclamation, desalting, and other treatment technologies**
- ◆ **Water banking, water exchange, water reclamation, and improvement of water quality**
- ◆ **Planning and implementation of multipurpose flood control programs that protect property; and improve water quality, storm water capture and percolation; and protect or improve wildlife habitat**
- ◆ **Watershed management planning and implementation**
- ◆ **Demonstration projects to develop new drinking water treatment and distribution**



**ANTELOPE VALLEY
INTEGRATED REGIONAL WATER MANAGEMENT PLAN
CALL FOR PROJECTS
Project Identification Short Form**

Note: This one page project identification short form gathers the minimum amount of information required to submit a project for consideration in the IRWM Plan. More information may be required at a later date. This form may be printed, filled out by hand and mailed back to Lauren Everett - Kennedy/Jenks Consultants, 1000 Hill Road, Suite 200, Ventura, CA 93003, faxed to 805-650-1522, OR electronically filled out and emailed to: laureneverett@KennedyJenks.com

General Information

Project Name:

Project Sponsor:

If Joint Project, Other Partners:

Project Website (if available):

Project Contact Person:

Phone

FAX

Email

Project Description

Project Description (1-2 sentences):

Project Integration (Describe how the project does or could integrate with other projects in the Region):

Project Source (Cite Plan(s) to which the project belongs (e.g., TMDL Implementation Plans, Watershed Master Plans)):

Project Location

Descriptive (Description of property location etc.):

Latitude/Longitude - Info available at: <http://geocoder.us/>

Lat:

Long:

Estimated Capital Costs: (Note estimated cost, if known OR check rough estimate):

Project Cost:

<\$100K

\$100K - \$1M

\$1M - \$10M

>\$10M

Project Status (Check one):

Conceptual

In-Design

Ready for Construction

CEQA Complete

Estimated Year of Construction:

Project Benefits

Water Supply: New Supply Created (AFY) (Check one)

1-100 AF

100-1000AF

1000+ AF

Water Quality

Area Drained: and/or

Volume Treated:

Public Access, Open Space, Habitat, Recreation (acres created/restored):

Other: (Describe X amount of benefit)

Project Criteria

Please review the project against the IRWM Water Management Strategies and place a check in the box if the project meets the criteria.

Water Supply (includes groundwater management)

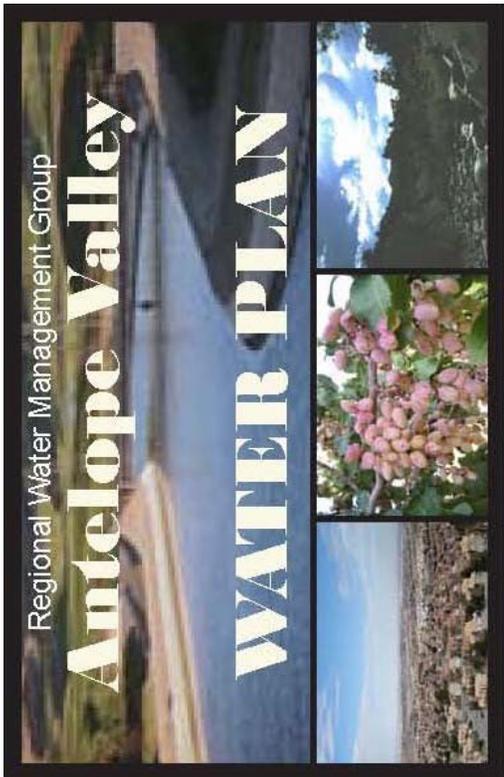
Water Quality

Flood Management (includes stormwater capture and management)

Environment (includes ecosystem restoration, environmental & habitat protection, wetlands creation & enhancement)

Land Use Planning

Antelope Valley Water Plan Cover for Public Outreach CD



The Antelope Valley Water Plan

- Meeting Schedule
- PowerPoint Presentation
- Project Form
- Project Eligibility Types
- Water Plan Goals
- Water Plan Objectives

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Community Census Data

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Boron, California

Ads by Google

[Boron CA Real Estate](#)

Search Boron Home Listings
View by Photos, Price, Size & More.

www.homes-just-listed.com

[Affordable Homes For Sale](#)

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www.CalCityHomeSales.com/

[real estate in boron](#)

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www.hotels.kayak.com

[Boron CA Hotel Reviews](#)

Find out where to stay and what price to pay in Boron, CA.

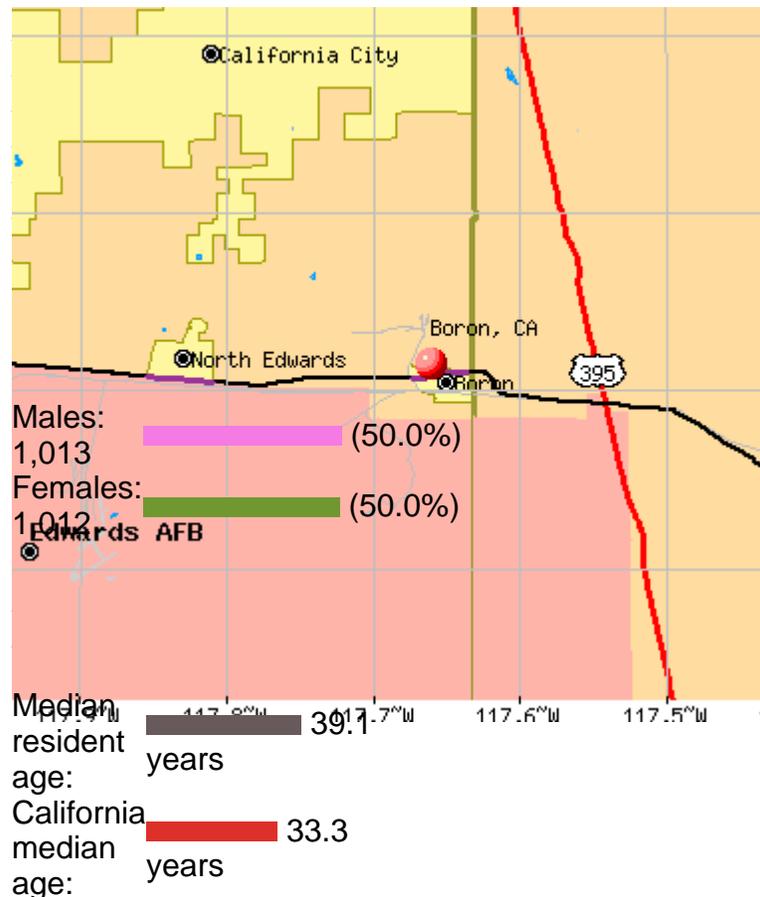
www.mytravelguide.com

Back to [Boron, CA housing info](#), [Kern County, California big cities](#), [CA smaller cities](#), [CA small cities](#), [All Cities](#).



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[Find City](#)

Zip codes: [93516](#).

Estimated median household income in 2005:
\$46,100 (it was \$40,625 in 2000)

Boron  \$46,100
California:  \$53,629

Estimated median house/condo value in 2005:
\$130,300 (it was \$57,700 in 2000)

Boron  \$130,300
California:  \$477,700

[Boron, CA residents, houses, and apartments details](#)

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Races in Boron:

- White Non-Hispanic (81.2%)
- Hispanic (9.0%)
- Other race (4.7%)
- American Indian (4.5%)
- Two or more races (3.5%)
- Black (2.2%)
- Filipino (1.1%)

(Total can be greater than 100% because Hispanics could be counted in other races)



Recent posts about [Boron, California on our local forum](#) with over 100,000 registered users. Boron is mentioned 18 times on our forum:

-  [Orange County, CA: Anus of the World](#) (60 replies)
-  [Would you buy a home in Lancaster,CA now \(if you only planned to be in it 2-4 yrs\)?](#) (60 replies)
-  [What do you Miss in Your New Place Compared to California?](#) (56 replies)
-  [Most affordable California cities](#) (30 replies)
-  [Which city has the best looking, approachable females?](#) (23 replies)

LANCASTER CA, EDWARDS AFB what can you tell me about the area??? (19 replies)

Latest news from Boron, CA collected exclusively by city-data.com from local newspapers, TV, and radio stations

AV Press: Mojave stories shared

Charles found Melvin English, now a resident of **Boron**, whom Charles knew in kindergarten. Marilyn said they reminisced about growing up in a rural town. (avpress.com)

AV Press: School district pitches modernization idea

The meetings will be at 4 p.m. at **Boron** Junior-Senior High School and at 7 p.m. at Desert High School at Edwards Air Force Base. (avpress.com)

AV Press: Jimbo Boghosian: coach mentor tiger for Bobcats

is now in his fifth year as principal of **Boron** High School, following earlier positions as a teacher, football coach and athletic director, and has work side by side with Boghosian through the (avpress.com)

[More news from Boron, CA](#)

Ancestries: German (15.6%), English (11.8%), Irish (11.1%), United States (8.2%), French (4.6%), Italian (4.6%).

Elevation: 2460 feet

Land area: 13.8 square miles.

Population density: 146 people per square mile

 (very low).

For population 25 years and over in Boron

- High school or higher: 74.9%
- Bachelor's degree or higher: 9.6%
- Graduate or professional degree: 3.5%
- Unemployed: 10.8%
- Mean travel time to work: 17.2 minutes

For population 15 years and over in Boron CDP



- Never married: 16.9%
- Now married: 57.3%
- Separated: 3.5%
- Widowed: 7.5%
- Divorced: 14.7%

176 residents are foreign born (3.8% Latin America, 2.6% Asia, 1.4% North America, 0.9% Europe).

This city:  8.7%

California:  26.2%

According to our research there were [6 registered sex offenders living in Boron, California](#) in early 2007.

The ratio of number of residents in Boron to the number of sex offenders is 338 to 1.

Median real estate property taxes paid for housing units in 2000:

Boron:  0.7% (\$418)

California:  0.7% (\$1,564)

Ads by Google

[Coldwell Banker Best Rlty](#) - Homes & Land California City, Boron Edwards AFB, Mojave, North Edwards (www.bestrealty.net)

[Boron CA Real Estate](#) - Search Boron Home Listings View by Photos, Price, Size & More. (www.homes-just-listed.com)

[real estate in boron](#) - California Real Estate Directory news and other info - Always Free! (RealEstateForSaleInCalifornia.net)

Nearest city with pop.
50,000+: [Victorville, CA](#) 
(40.5 miles , pop. 64,029).

Nearest city with pop.
200,000+: [Riverside, CA](#) 
(76.0 miles , pop. 255,166).

Nearest city with pop.
1,000,000+: [Los Angeles, CA](#)
 (80.9 miles , pop. 3,694,820).

Nearest cities: [North Edwards, CA](#) (10.5 miles ,
[California City, CA](#)  (17.7



California City, California

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Investment Property - CA

Buy / Sell / Search for Properties
Duplex, Triplex, 4-Plex,
Commercial
CAIncomeProperty.com

Glendora California Homes

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View by Photos, Price, Size &
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See Current Houses For Sale,
MLS &
More In California. Free!
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View homes for sale

See current Real Estate listings
in West Hollywood, CA. Search
now!
homegain.com

Downey MLS Listings

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Current weather forecast for California City, CA

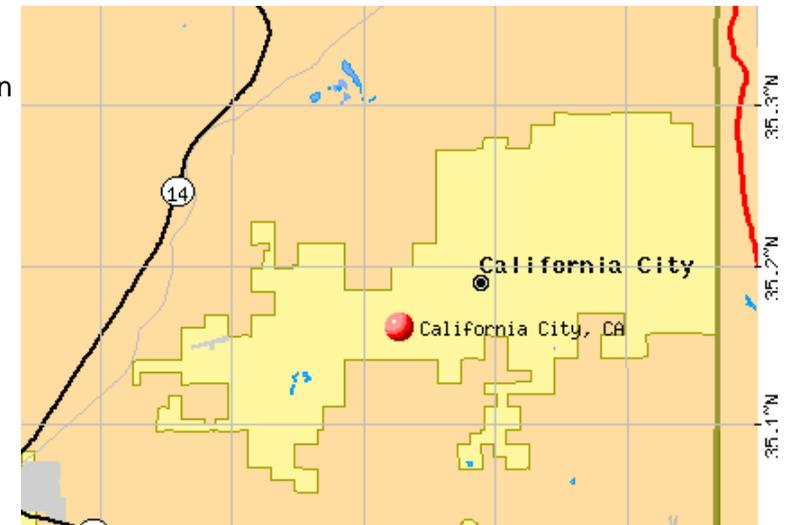
Population (year 2000): 8,385. Estimated population
in July 2006: 12,659 (+51.0% change)
Males: 4,182  (49.9%)
Females: 4,203  (50.1%)

Kern County

Median resident age:  36.1 years
California median age:  33.3 years

Zip codes: [93505](#).

Estimated median household income in 2005:



\$51,900 (it was \$45,735 in 2000)

California City  \$51,900

California:  \$53,629

[Find City](#)

Estimated median house/condo value in 2005: \$185,000 (it was \$81,900 in 2000)

California City  \$185,000

California:  \$477,700

[California City, CA residents, houses, and apartments details](#)

[List your B&M business here for free. Over a million visitors/week. Get a huge advantage over your competition](#)

Races in California City:

- White Non-Hispanic (61.3%)
- Hispanic (17.0%)
- Black (12.8%)
- Other race (7.4%)
- Two or more races (5.9%)
- American Indian (3.1%)
- Filipino (2.2%)
- Korean (0.5%)

(Total can be greater than 100% because Hispanics could be counted in other races)



Recent posts about [California City, California on our local forum](#) with over 100,000 registered users. California City is mentioned 80 times on our forum:

-  [California City, CA any info](#) (14 replies)
-  [Would you buy a home in Lancaster, CA now \(if you only planned to be in it 2-4 yrs\)?](#) (62 replies)
-  [Californians: Are You Tired of Getting Blamed?](#) (32 replies)
-  [Most affordable California cities](#) (30 replies)
-  [Cheaper places 3 hrs from LA](#) (16 replies)
-  [Tehachapi or Lancaster?](#) (15 replies)

Ancestries: German (16.1%), English (9.4%), Irish (9.4%), United States (6.2%), French (4.4%), Italian (3.5%).

Elevation: 2360 feet

Land area: 203.6 square miles.

Population density: 58 people per square mile  (very low).

For population 25 years and over in California City

- High school or higher: 82.8%
- Bachelor's degree or higher: 12.1%
- Graduate or professional degree: 4.6%
- Unemployed: 9.4%
- Mean travel time to work: 29.2 minutes

For population 15 years and over in California City city

- Never married: 19.5%
- Now married: 60.5%
- Separated: 2.5%
- Widowed: 6.4%
- Divorced: 11.0%

607 residents are foreign born (2.5% Latin America, 2.2% Asia, 2.0% Europe).

This city: 7.2%

California: 26.2%

According to our research there were [15 registered sex offenders living in California City, California](#) in early 2007.

The ratio of number of residents in California City to the number of sex offenders is 786 to 1.

The number of registered sex offenders compared to the number of residents in this city is near the state average.

Median real estate property taxes paid for housing units in 2000:

California City: 1.0% (\$831)

California: 0.7% (\$1,564)

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[Investment Property - CA](#) - Buy / Sell / Search for Properties Duplex, Triplex, 4-Plex, Commercial ([CAIncomeProperty.com](#))

[Glendora California Homes](#) - Search Glendora Home Listings View by Photos, Price, Size & More. ([www.homes-just-listed.com](#))

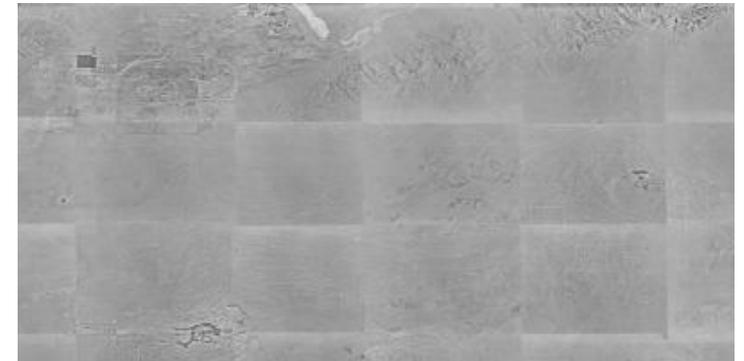
[Buy California land](#) - Great investment opportunities in low priced SoCal land ([www.VacantLandDeals.com](#))

Nearest city with pop. 50,000+: [Lancaster, CA](#) (38.1 miles ↘, pop. 118,718).

Nearest city with pop. 200,000+: [Bakersfield, CA](#) (80.8 miles ←, pop. 247,057).

Nearest city with pop. 1,000,000+: [Los Angeles, CA](#) (82.0 miles ↘, pop. 3,694,820).

Nearest cities: [North Edwards, CA](#) (8.8 miles ↘), [Edwards AFB, CA](#) (17.1 miles ↘), [Boron, CA](#) (17.7 miles ↘), Randsburg, CA (20.7 miles), Johannesburg, CA (21.6 miles), [Mojave, CA](#) (23.9 miles ←), [Rosamond, CA](#) (30.7 miles ↘), [Inyokern, CA](#) (33.9



miles ↑).

Single-family new house construction building permits:

- 1996: 4 buildings, average cost: \$94,800
- 1997: 0 buildings
- 1998: 3 buildings, average cost: \$102,400
- 1999: 7 buildings, average cost: \$140,600
- 2000: 8 buildings, average cost: \$124,600
- 2001: 7 buildings, average cost: \$120,200
- 2002: 9 buildings, average cost: \$125,600
- 2004: 146 buildings, average cost: \$133,000
- 2005: 385 buildings, average cost: \$124,800
- 2006: 479 buildings, average cost: \$143,900

Number of permits per 10,000 residents

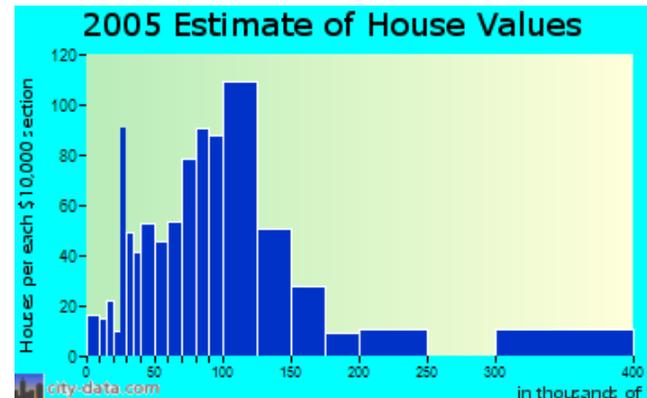
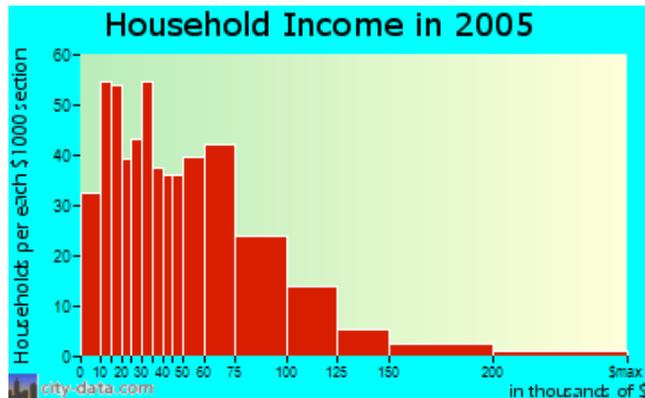
Average cost (in 1000s)

Latitude: 35.16 N, Longitude: 117.87 W

Daytime population change due to commuting: -1,728 (-20.6%)
Workers who live and work in this city: 807 (24.3%)

53 people in federal prisons and detention centers
5 people in homes for the mentally ill

Area code: 760



[California City, California business and economic data: stores, dealers, real estate agents, wholesalers, restaurants...](#)

Lancaster, California

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Homes in Quartz Hill

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bakersfield.pulte.com

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Submit pictures of this city

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Current weather forecast for Lancaster, CA

Population (year 2000): 118,718. Estimated population in July 2006: 140,804 (+18.6% change)

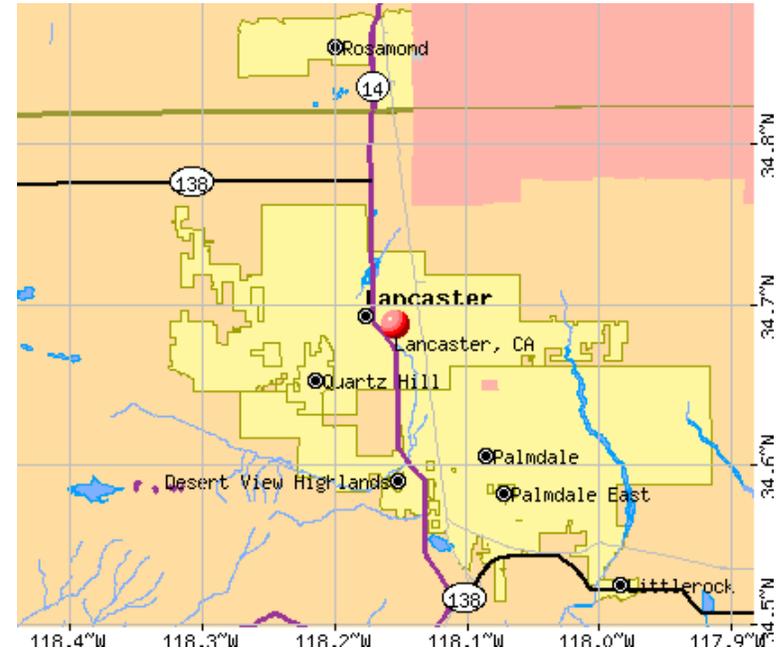
Males: 60,257 (50.8%)
 Females: 58,461 (49.2%)

Los Angeles County

Median resident age: 31.1 years
 California median age: 33.3 years

Zip codes: [93534](#), [93535](#), [93536](#).

Estimated median household income in 2005:
 \$44,277 (it was \$41,127 in 2000)
 Lancaster: \$44,277
 California: \$53,629



Find City

Estimated median house/condo value in 2005: \$273,100 (it was \$103,700 in 2000)

Lancaster  \$273,100

California:  \$477,700

Median gross rent in 2005: \$869.

Percentage of residents living in poverty in 2005: 20.1%

(7.4% for White Non-Hispanic residents, 33.9% for Black residents, 30.0% for Hispanic or Latino residents)

[Lancaster, CA residents, houses, and apartments details](#)

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Profiles of local businesses:

[World Financial Group](#)

[Nicole's Personal Touch , Inc.](#)

[Sharon Fallens Automasters Smog-Test Only](#)

[Lousant Enterprises](#)

Races in Lancaster:

- White Non-Hispanic (52.4%)
- Hispanic (24.1%)
- Black (16.0%)
- Other race (11.1%)
- Two or more races (5.0%)
- American Indian (2.3%)
- Filipino (1.7%)

(Total can be greater than 100% because Hispanics could be counted in other races)



Recent posts about [Lancaster, California on our local forum](#) with over 100,000 registered users. Lancaster is mentioned 514 times on our forum:

-  [Would you buy a home in Lancaster,CA now \(if you only planned to be in it 2-4 yrs\)?](#) (62 replies)
-  [Lancaster, CA area](#) (25 replies)
-  [Moving to Lancaster/Palmdale](#) (34 replies)
-  [LANCASTER CA, EDWARDS AFB what can you tell me about the area???](#) (19 replies)
-  [Stay Put or Sell & Rent in Lancaster?](#) (11 replies)
-  [Working at Lancaster Prison - Where to Live?](#) (6 replies)

Latest news from Lancaster, CA collected exclusively by city-data.com from local newspapers, TV, and radio stations

[LA Daily News - Morning report: Soaring temperatures miscellaneous mayhem and more](#)

Temperatures today could top out at 102 today in **Lancaster**, forecasters predict. ([dailynews.com](#))

[LA Daily News - Overturned cement mixer backs up 14 Freeway traffic](#)

Truck driver Melvin Frey, 37, of **Lancaster** apparently lost control about 12:15 p.m. while negotiating the curved Avenue M on-ramp, flipped the rig over a barricade and landed sideways on the freeway, ([dailynews.com](#))

[AV Press: DEI makes aggressive decision](#)

Aron Anderson of **Lancaster**, sporting the same L90 Airport sponsorship of his brother, finished third in the Bandoleros event. ([avpress.com](#))

[More news from Lancaster, CA](#)

Ancestries: German (13.0%), Irish (9.3%), English (7.8%), United States (5.2%), Italian (4.2%), French (2.6%).

Elevation: 2355 feet

Land area: 94.0 square miles.

Population density: 1427 people per square mile (low).

For population 25 years and over in Lancaster

- High school or higher: 78.3%
- Bachelor's degree or higher: 15.8%
- Graduate or professional degree: 5.6%
- Unemployed: 11.2%
- Mean travel time to work: 31.6 minutes

For population 15 years and over in Lancaster city

- Never married: 29.6%
- Now married: 49.4%
- Separated: 3.4%
- Widowed: 5.5%
- Divorced: 12.1%

15,476 residents are foreign born (8.3% Latin America, 2.9% Asia).

This city: 13.0%

California: 26.2%



According to our research there were [293 registered sex offenders living in Lancaster, California](#) in early 2007.

The ratio of number of residents in Lancaster to the number of sex offenders is 458 to 1.

Median real estate property taxes paid for housing units with mortgages in 2005: \$1,909 (0.6%)

Median real estate property taxes paid for housing units with no mortgage in 2005: \$402 (0.4%)

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[Lancaster Jobs](#) - Looking For A New Job? Use Our Free Listings & Resources. Start Now! (www.Beyond.com/Careers)

[Lancaster Apartment Guide](#) - Find Lancaster PA Apartments Fast! All Prices & Sizes. Many Choices. (LancasterApartmentGuide.com)

[Lancaster Real Estate](#) - Free, Custom Photo Email Listings Search by Bed, Bath & Price Range (www.homepages.com)

Nearest city with pop. 200,000+: [Los Angeles, CA](#) 📷 (44.3 miles ↘, pop. 3,694,820).

Nearest cities: [Quartz Hill, CA](#) 📷 (5.2 miles ↙), [Desert View Highlands, CA](#) (6.7 miles ↓), [Palmdale, CA](#) 📷 (8.2 miles ↘), [Rosamond, CA](#) 📷 (12.9 miles ↗), [Acton, CA](#) 📷 (15.0 miles ↓), [Littlerock, CA](#) (15.9 miles ↘), [Edwards AFB, CA](#) (22.2 miles ↗), [Lake Los Angeles, CA](#) 📷 (22.5 miles ↘).

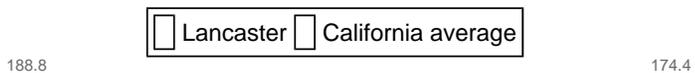


Single-family new house construction building permits:

- 1996: 282 buildings, average cost: \$124,600
- 1997: 422 buildings, average cost: \$138,800
- 1998: 296 buildings, average cost: \$141,500
- 1999: 341 buildings, average cost: \$138,400
- 2000: 279 buildings, average cost: \$143,000
- 2001: 577 buildings, average cost: \$141,500
- 2002: 437 buildings, average cost: \$146,300
- 2003: 972 buildings, average cost: \$156,900
- 2004: 1740 buildings, average cost: \$173,800
- 2005: 2799 buildings, average cost: \$181,000
- 2006: 1663 buildings, average cost: \$179,400

Number of permits per 10,000 residents

Average cost (in 1000s)



Latitude: 34.69 N, Longitude: 118.15 W

Daytime population change due to commuting: -4,285 (-3.6%)
 Workers who live and work in this city: 18,950 (44.7%)



People in group quarters in Lancaster



North Edwards, California

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[Coldwell Banker Best Rlty](#)

Homes & Land California City, Boron Edwards AFB, Mojave, North Edwards
www.bestrealty.net

[California City Property](#)

Home & land listings. Edwards AFB. Cal City information supercenter.
www.JohnBurkhart.com

[Antelope Valley Homes](#)

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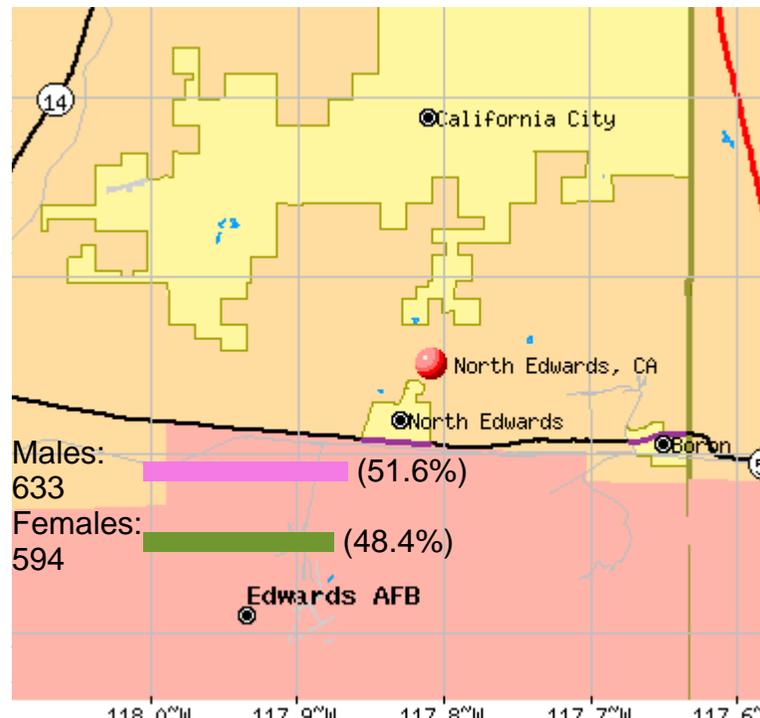
[Local homes for sale](#)

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Median resident age: 40.2 years

California median age: 33.3 years

Zip codes: [93523](#).

Estimated median household income in 2005: \$46,000 (it was \$40,547 in 2000)

North Edwards \$46,000

California: \$53,629

Estimated median house/condo value in 2005: \$142,500 (it was \$63,100 in 2000)

North Edwards \$142,500

California: \$477,700

[Find City](#)

[North Edwards, CA residents, houses, and apartments details](#)

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Races in North Edwards:

- White Non-Hispanic (82.7%)
- Hispanic (7.4%)
- Two or more races (3.8%)
- American Indian (3.3%)
- Other race (2.8%)
- Black (2.0%)
- Filipino (0.7%)
- Native Hawaiian and Other Pacific Islander (0.7%)

(Total can be greater than 100% because Hispanics could be counted in other races)



Recent posts about [North Edwards, California on our local forum](#) with over 100,000 registered users. North Edwards is mentioned 13 times on our forum:

- [Would you buy a home in Lancaster,CA now \(if you only planned to be in it 2-4 yrs\)?](#) (60 replies)
- [moving to Barstow](#) (26 replies)
- [LANCASTER CA, EDWARDS AFB what can you tell me about the area???](#) (19 replies)
- [Edwards AFB area](#) (12 replies)
- [palmdale, santa clarita,quartz hill, acton..](#) (19 replies)
- [Thinking of mo.to CA asap..Need advice.](#) (13 replies)

Ancestries: German (23.9%), English (19.7%), Irish (17.4%), Polish (9.5%), Italian (8.2%), French (6.6%).

Elevation: 2295 feet

Land area: 12.8 square miles.
 Population density: 96 people per square mile

 (very low).

For population 25 years and over in North Edwards

- High school or higher: 81.2%
- Bachelor's degree or higher: 9.0%
- Graduate or professional degree: 1.5%
- Unemployed: 10.1%
- Mean travel time to work: 26.6 minutes

For population 15 years and over in North Edwards CDP

- Never married: 24.0%
- Now married: 52.2%
- Separated: 1.9%
- Widowed: 6.7%
- Divorced: 15.2%



61 residents are foreign born (2.4% Asia, 2.0% Europe, 0.6% North America).

This city:  5.0%

California:  26.2%

According to our research there was [one registered sex offender living in North Edwards, California](#) in early 2007.

The ratio of number of residents in North Edwards to the number of sex offenders is 1227 to 1.

The number of registered sex offenders compared to the number of residents in this city is smaller than the state average.

Median real estate property taxes paid for housing units in 2000:

North Edwards:  1.0% (\$638)

California:  0.7% (\$1,564)

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[Coldwell Banker Best Rlty](#) - Homes & Land California City, Boron Edwards AFB, Mojave, North Edwards (www.bestrealty.net)

Palmdale, California

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[View Homes For Sale](#)

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[Palmdale CA Home Listings](#)

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[Lancaster Homes for Sale](#)

List of Antelope Valley homes for sale. Zero down available.
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[Current weather forecast for Palmdale, CA](#)

Population (year 2000): 116,670. Estimated population in July 2006: 138,790 (+19.0% change)





Males: 57,338  (49.1%)
 Females: 59,332  (50.9%)

[Los Angeles County](#)

Median resident age:  28.2 years
 California median age:  33.3 years

Zip codes: [93550](#), [93551](#), [93552](#), [93591](#).

Estimated median household income in 2005: \$46,536 (it was \$46,941 in 2000)
 Palmdale  \$46,536
 California:  \$53,629

Estimated median house/condo value in 2005: \$303,800 (it was \$116,400 in 2000)
 Palmdale  \$303,800
 California:  \$477,700

Median gross rent in 2005: \$940.

Percentage of residents living in poverty in 2005: 17.7%
 (11.5% for White Non-Hispanic residents, 16.3% for Hispanic or Latino residents, 17.5% for other race residents)

[Palmdale, CA residents, houses, and apartments details](#)

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Profiles of local businesses:

[Re/Max All-Pro, Sue Brown](#)

[G & M Associates Mobile auto interior repair](#)

[Port Flow Development](#)

[CIRCUS PARTY RENTALS](#)

Races in Palmdale:

- White Non-Hispanic (41.0%)
- Hispanic (37.7%)
- Other race (20.4%)
- Black (14.5%)
- Two or more races (5.2%)
- Filipino (2.1%)
- American Indian (1.9%)

(Total can be greater than 100% because Hispanics could be counted in other races)



Recent posts about [Palmdale, California on our local forum](#) with over 100,000 registered users. Palmdale is mentioned 515 times on our forum:

- [moving to palmdale, ca - questions](#) (132 replies)
- [How is Palmdale?](#) (85 replies)
- [Moving to Lancaster/Palmdale](#) (34 replies)
- [New condos/townhomes in Palmdale/Lancaster...need input](#) (3 replies)
- [Help - moving to Palmdale/Lancaster - need advice](#) (32 replies)
- [Need Information About West Palmdale..have Not Seen Anything Good Thus Far..help!](#) (1 reply)

Latest news from Palmdale, CA collected exclusively by city-data.com from local newspapers, TV, and radio stations

[LA Daily News - Morning report: Soaring temperatures miscellaneous mayhem and more](#)

Fernando, 98 in Santa Clarita, 102 in Lancaster, 101 in **Palmdale**, and 86 in downtown Los Angeles. ([dailynews.com](#))

[LA Daily News - Evictions in Palmdale drug cases get easier](#)

PALMDALE - A new state law will allow **Palmdale** to instigate evictions against renters who commit drug-related offenses. ([dailynews.com](#))

[LA Daily News - Morning report: two injured in Granada Hills crash former Pacoima priest in court in](#)

it will be 96 in Santa Clarita, 100 in Lancaster, 99 in **Palmdale**, 89 in Burbank, 90 in Glendale, 94 in San Fernando, and 86 in downtown Los Angeles. ([dailynews.com](#))

[More news from Palmdale, CA](#)

Ancestries: German (8.9%), Irish (6.9%), English (6.4%), Italian (4.4%), United States (3.7%), French (2.2%).

Elevation: 2659 feet

Land area: 105.0 square miles.

Population density: 1283 people per square mile (low).

For population 25 years and over in Palmdale

- High school or higher: 74.0%
- Bachelor's degree or higher: 13.3%
- Graduate or professional degree: 3.8%
- Unemployed: 9.8%
- Mean travel time to work: 42.9 minutes

For population 15 years and over in Palmdale city

- Never married: 27.7%



- Now married: 56.4%
- Separated: 2.8%
- Widowed: 4.1%
- Divorced: 9.0%

23,074 residents are foreign born (14.8% Latin America, 3.2% Asia).

This city:  19.8%

California:  26.2%

According to our research there were [165 registered sex offenders living in Palmdale, California](#) in early 2007.

The ratio of number of residents in Palmdale to the number of sex offenders is 816 to 1.

The number of registered sex offenders compared to the number of residents in this city is near the state average.

Median real estate property taxes paid for housing units with mortgages in 2005: \$2,045 (0.7%)

Median real estate property taxes paid for housing units with no mortgage in 2005: \$1,065 (0.5%)

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[Palmdale California Homes](#) - Search Palmdale Home Listings View by Photos, Price, Size & More. (www.homes-just-listed.com)

Nearest city with pop. 200,000+: [Los Angeles, CA](#)  (39.1 miles , pop. 3,694,820).

Nearest cities: [Desert View Highlands, CA](#) (3.7 miles , [Lancaster, CA](#)  (8.2 miles , [Littlerock, CA](#) (8.5 miles , [Acton, CA](#)  (9.4 miles , [Quartz Hill, CA](#)  (9.6 miles , [Lake Los Angeles, CA](#)  (18.5 miles , [Rosamond, CA](#)  (21.0 miles , [Edwards AFB, CA](#) (26.2 miles )

Single-family new house construction building permits:

- 1996: 508 buildings, average cost: \$124,400
- 1997: 376 buildings, average cost: \$124,800
- 1998: 374 buildings, average cost: \$118,100
- 1999: 496 buildings, average cost: \$137,900
- 2000: 661 buildings, average cost: \$158,800
- 2001: 812 buildings, average cost: \$173,800
- 2002: 978 buildings, average cost: \$177,500
- 2003: 957 buildings, average cost: \$184,300

239.0



Quartz Hill, California

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Lancaster Homes for Sale

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Current weather forecast for Quartz Hill, CA

Population (year 2000): 9,890

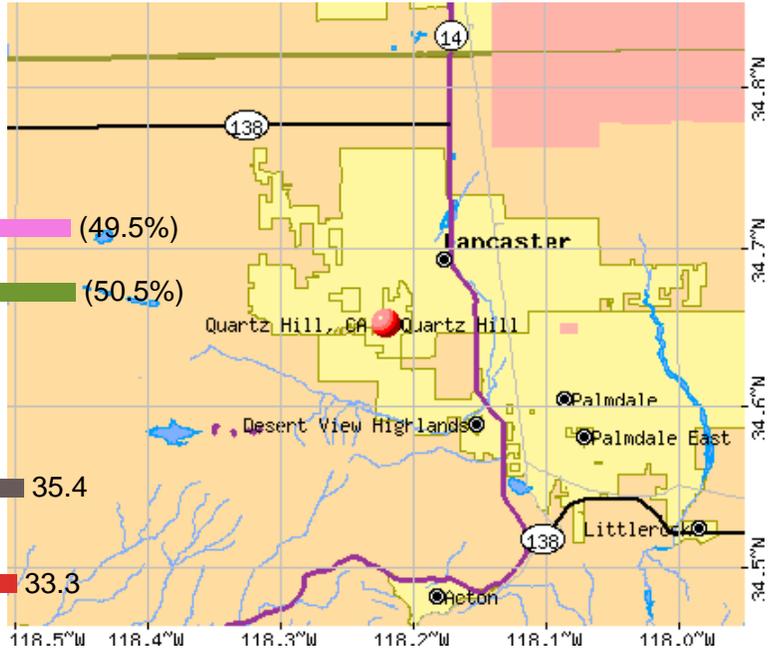
Males: 4,891 (49.5%)

Females: 4,999 (50.5%)

Los Angeles County

Median resident age: 35.4 years

California median age: 33.3 years



Zip codes: [93536](#).

Estimated median household income in 2005: \$56,100 (it was \$49,098 in 2000)

Quartz Hill \$56,100
California: \$53,629

Estimated median house/condo value in 2005: \$317,800 (it was \$138,500 in 2000)

Quartz Hill \$317,800
California: \$477,700

[Quartz Hill, CA residents, houses, and apartments details](#)

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Find City

Races in Quartz Hill:

- White Non-Hispanic (74.2%)
- Hispanic (15.3%)
- Other race (6.1%)
- Black (5.0%)
- Two or more races (4.2%)
- American Indian (2.4%)
- Filipino (0.8%)

(Total can be greater than 100% because Hispanics could be counted in other races)



Recent posts about [Quartz Hill, California on our local forum](#) with over 100,000 registered users. Quartz Hill is mentioned 49 times on our forum:

- 🗨 [moving to palmdale, ca - questions](#) (132 replies)
- 🗨 [How is Palmdale?](#) (85 replies)
- 🗨 [Would you buy a home in Lancaster, CA now \(if you only planned to be in it 2-4 yrs\)?](#) (62 replies)
- 🗨 [How is the future out look of Palmdale California?](#) (45 replies)
- 🗨 [Section 8 in your neighborhood?](#) (34 replies)
- 🗨 [Moving to Lancaster/Palmdale](#) (34 replies)

Ancestries: German (19.4%), Irish (14.0%), English (12.7%), Italian (5.7%), United States (5.3%), French (4.0%).

Elevation: 2450 feet

Land area: 3.8 square miles.

Population density: 2592 people per square mile (average).

For population 25 years and over in Quartz Hill

- High school or higher: 86.0%
- Bachelor's degree or higher: 16.1%
- Graduate or professional degree: 4.6%
- Unemployed: 8.3%
- Mean travel time to work: 33.0 minutes

For population 15 years and over in Quartz Hill CDP

- Never married: 25.6%
- Now married: 57.3%
- Separated: 2.4%
- Widowed: 4.3%
- Divorced: 10.5%

568 residents are foreign born (3.9% Latin America, 0.8% Asia, 0.6% Europe).

This city: 5.7%

California: 26.2%

According to our research there were **no registered sex offenders** living in this city in early 2007.

Median real estate property taxes paid for housing units in 2000:

Quartz Hill: 0.9% (\$1,288)

California: 0.7% (\$1,564)



[Antelope homes for sale](#) - View thousands of homes for sale in Antelope, CA. Fast & free! (homegain.com)

Nearest city with pop. 50,000+: [Lancaster, CA](#) 📷 (5.2 miles ↗, pop. 118,718).

Nearest city with pop. 200,000+: [Los Angeles, CA](#) 📷 (40.6 miles ↘, pop. 3,694,820).

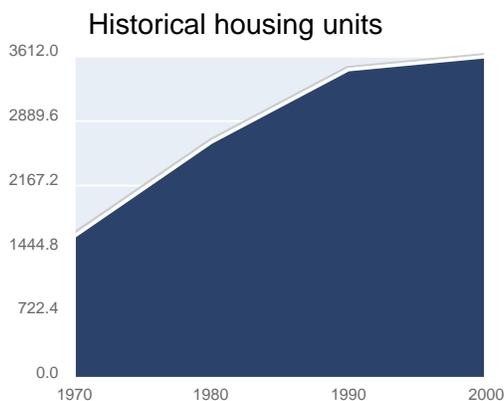
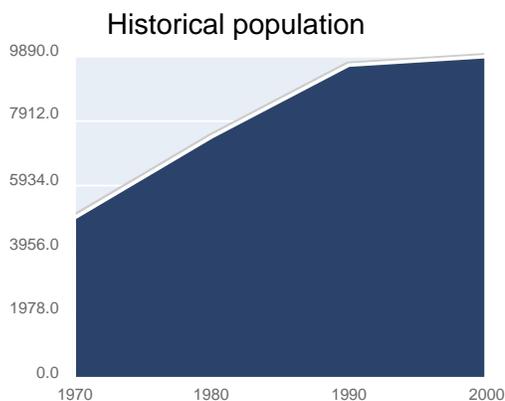
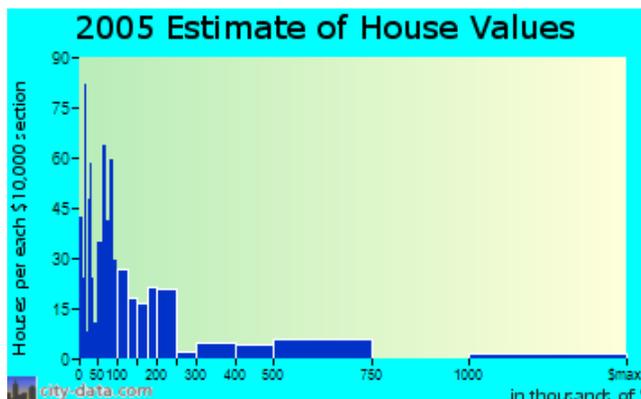
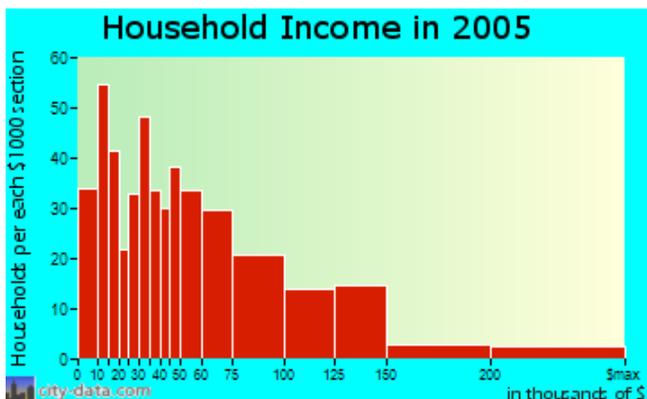
Nearest cities: [Lancaster, CA](#) 📷 (5.2 miles ↗), [Desert View Highlands, CA](#) (6.3 miles ↘), [Palmdale, CA](#) 📷 (9.6 miles ↘), [Acton, CA](#) 📷 (12.7 miles ↘), [Rosamond, CA](#) 📷 (14.8 miles ↑), [Littlerock, CA](#) (18.1 miles ↘), [Mojave, CA](#) 📷 (25.3 miles ↑), [Santa Clarita, CA](#) 📷 (25.5 miles ↙).

Latitude: 34.65 N, Longitude: 118.22 W

Daytime population change due to commuting: -2,827 (-28.6%)
 Workers who live and work in this city: 388 (9.3%)

8 people in other noninstitutional group quarters

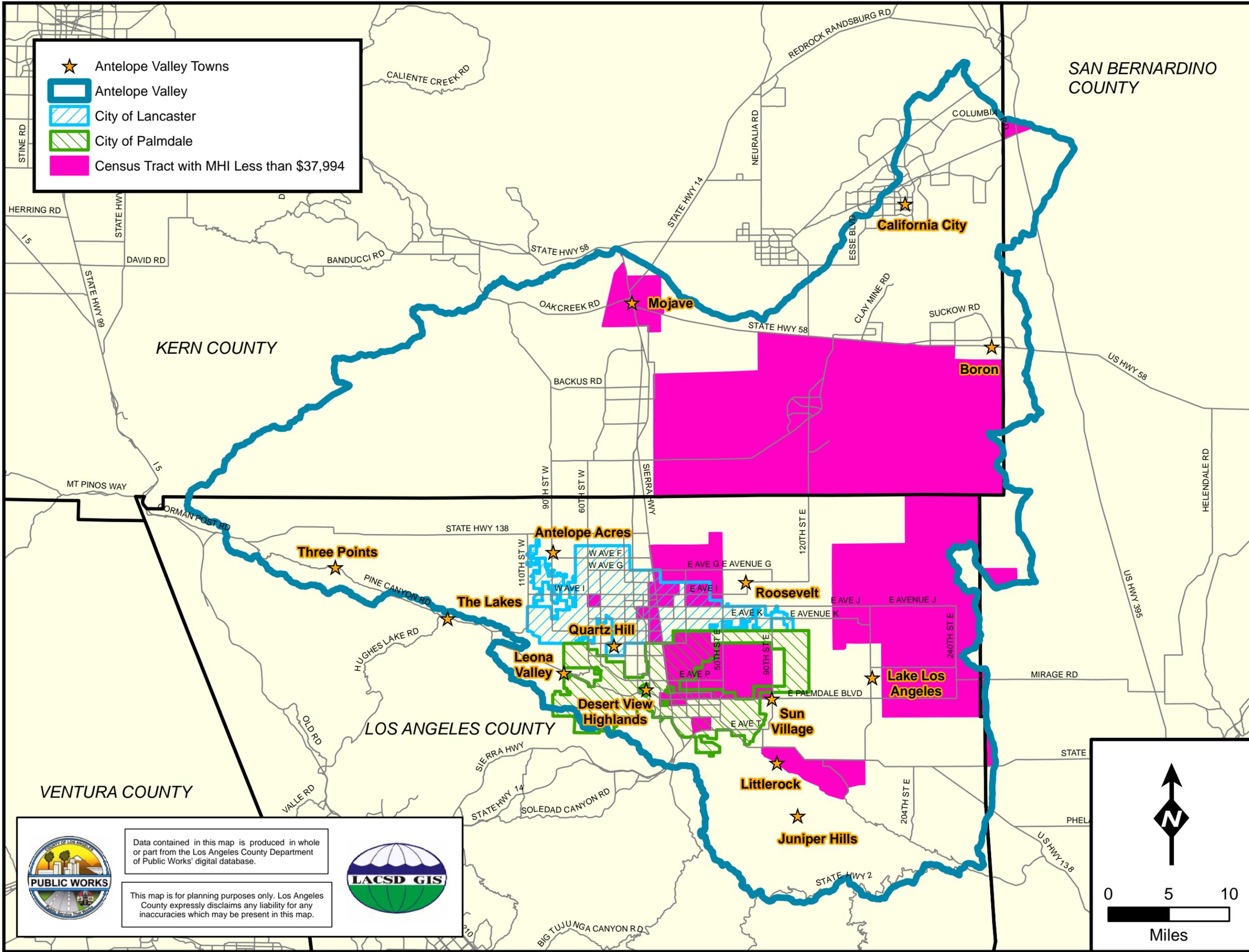
Area code commonly used in this area: 661



Disadvantaged Community Census Data

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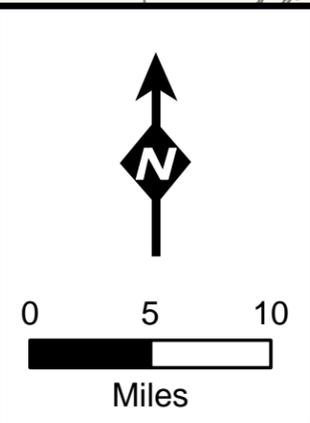
- ★ Antelope Valley Towns
- ▭ Antelope Valley
- ▨ City of Lancaster
- ▨ City of Palmdale
- Census Tract with MHI Less than \$37,994

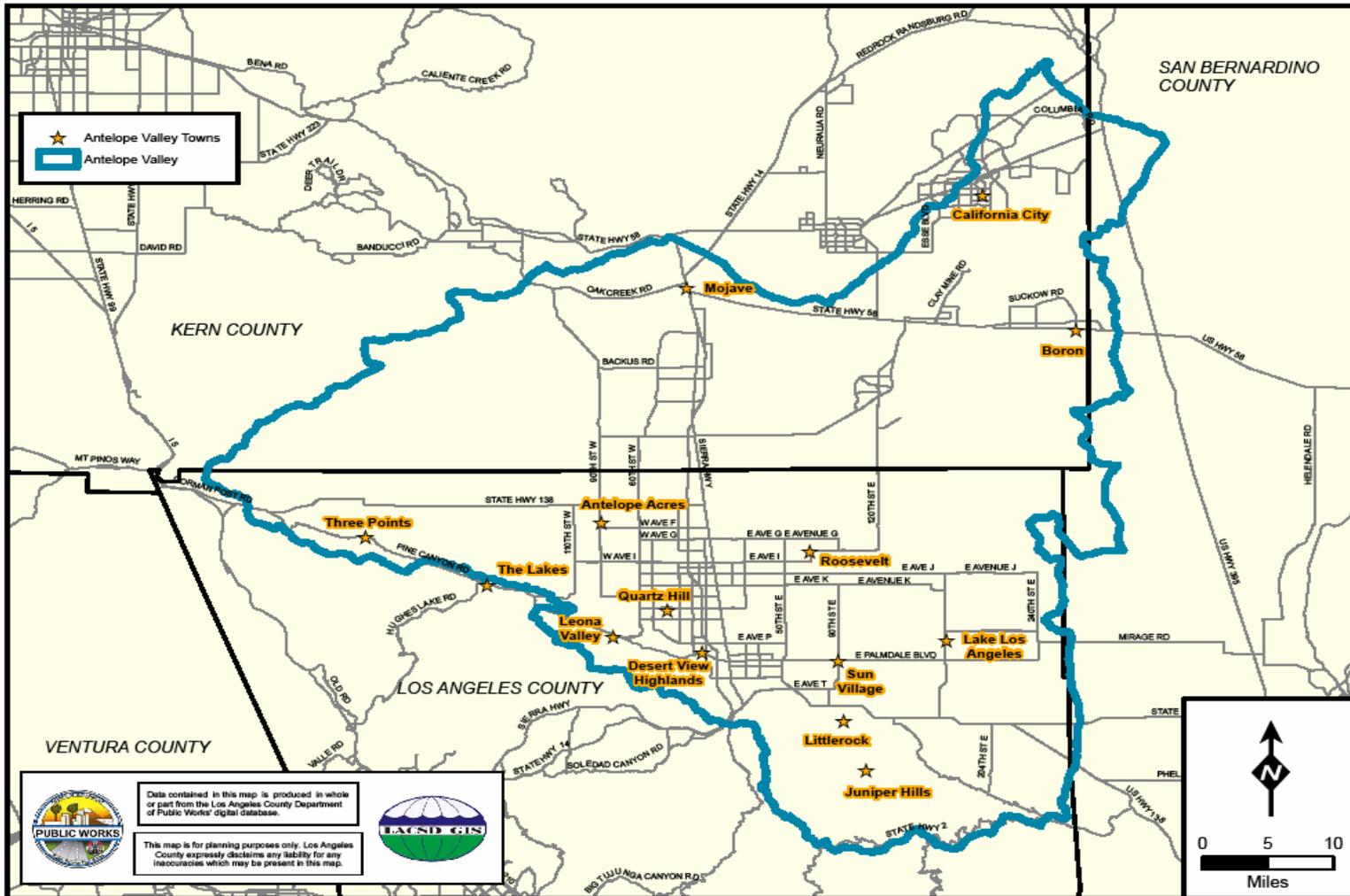


Data contained in this map is produced in whole or part from the Los Angeles County Department of Public Works' digital database.



This map is for planning purposes only. Los Angeles County expressly disclaims any liability for any inaccuracies which may be present in this map.





Residential Map



Lake Los Angeles, California

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[Lake Los Angeles Homes](#)

Lake Los Angeles Home Listings
View by Photos, Price, Size & More.

www.homes-just-listed.com

[Photos of Los Angeles](#)

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View Photos from Los Angeles.

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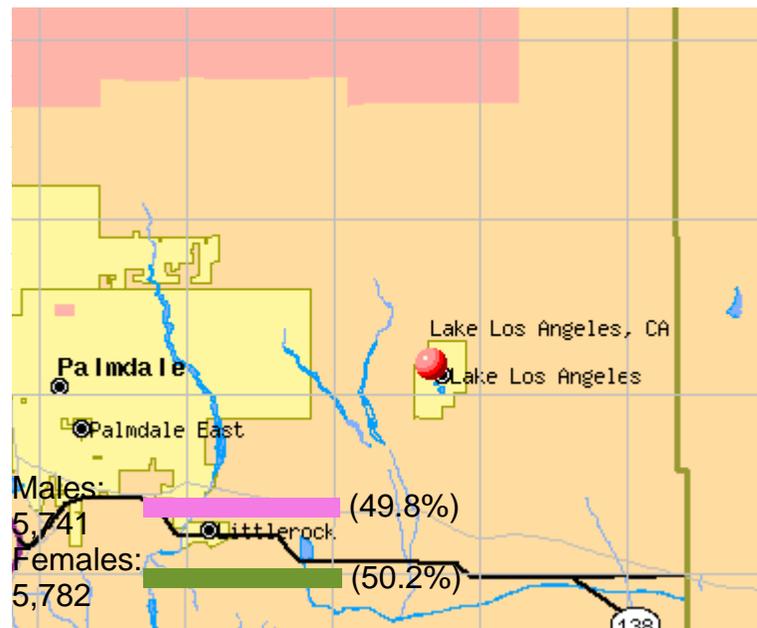
[California City Homes](#)

Affordable housing in the low 200's

Back to [Lake Los Angeles, CA housing info](#), [Los Angeles County](#), [California big cities](#), [CA smaller cities](#), [CA small cities](#), [All Cities](#).



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45 minutes north of Palmdale
www.clearviewre.com

[Los Angeles County](#)

Median resident age:  28.0 years
California median age:  33.3 years

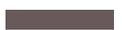
[Find City](#)

Zip codes: [93535](#).

Estimated median household income in 2005:
\$44,400 (it was \$38,794 in 2000)

Lake Los Angeles  \$44,400
California:  \$53,629

Estimated median house/condo value in 2005:
\$173,000 (it was \$75,400 in 2000)

Lake Los Angeles  \$173,000
California:  \$477,700

[Lake Los Angeles, CA residents, houses, and apartments details](#)

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Races in Lake Los Angeles:

- White Non-Hispanic (49.4%)
- Hispanic (33.6%)
- Other race (18.7%)
- Black (12.1%)
- Two or more races (5.5%)
- American Indian (3.3%)

(Total can be greater than 100% because Hispanics could be counted in other races)



Recent posts about [Lake Los Angeles, California on our local forum](#) with over 100,000 registered users:

-  [moving to palmdale, ca - questions](#) (132 replies)
-  [California City, CA any info](#) (14 replies)

Ancestries: German (14.0%), Irish (7.7%), English (5.4%), Italian (4.6%), United States (4.1%), French (2.6%).

Elevation: 2655 feet

Land area: 13.0 square miles.

Population density: 886 people per square mile (low).

For population 25 years and over in Lake Los Angeles

- High school or higher: 66.4%
- Bachelor's degree or higher: 8.8%
- Graduate or professional degree: 3.3%
- Unemployed: 11.7%
- Mean travel time to work: 53.6 minutes

For population 15 years and over in Lake Los Angeles CDP

- Never married: 24.8%
- Now married: 56.7%
- Separated: 3.7%
- Widowed: 3.9%
- Divorced: 10.9%



1,893 residents are foreign born (14.2% Latin America).

This city: 16.4%

California: 26.2%

According to our research there were **no registered sex offenders** living in this city in early 2007.

Median real estate property taxes paid for housing units in 2000:

Lake Los Angeles: 1.3% (\$958)

California: 0.7% (\$1,564)

Ads by Google

[Lake Los Angeles Homes](#) - Lake Los Angeles Home Listings View by Photos, Price, Size & More. (www.homes-just-listed.com)

[Photos of Los Angeles](#) - Beautiful Los Angeles California. View Photos from Los



Littlerock, California

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www.racreator4u.com

[Littlerock CA Real Estate](#)

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 View by Photos, Price, Size & More.
www.homes-just-listed.com

[Affordable LA Homes](#)

You can own your home in Palmdale and Lancaster, CA
www.youravhome.com

[Antelope Valley New Homes](#)

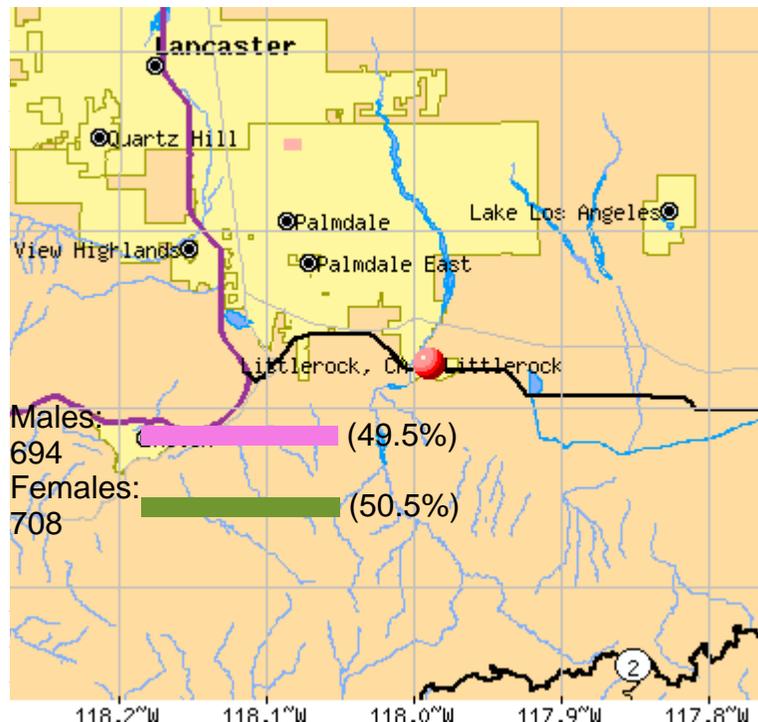
Discover the homes in Quartz Hill & Lancaster CA. See Pics & Prices
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[Palmdale CA Real Estate](#)

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Back to [Littlerock, CA housing info](#), [Los Angeles County, California](#), [CA smaller cities](#), [CA small cities](#), [All Cities](#).

We are giving away **\$1000** in prizes - enter simply by sending us your own city pictures!
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Median resident age: 29.1 years
 California median age: 33.3 years

Zip codes: [93543](#).

Estimated median household income in 2005:
 \$44,600 (it was \$39,000 in 2000)
 Littlerock \$44,600
 California: \$53,629

Estimated median house/condo value in 2005:
 \$202,900 (it was \$88,400 in 2000)
 Littlerock \$202,900
 California: \$477,700

Find City

[Little Rock, CA residents, houses, and apartments details](#)

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Profiles of local businesses:
[MAC Construction](#)

Races in Little Rock:

- White Non-Hispanic (54.1%)
- Hispanic (39.7%)
- Other race (19.8%)
- Black (4.8%)
- Two or more races (2.5%)
- American Indian (1.4%)

(Total can be greater than 100% because Hispanics could be counted in other races)



Recent posts about [Little Rock, California on our local forum](#) with over 100,000 registered users. Little Rock is mentioned 10 times on our forum:

-  [moving to palmdale, ca - questions](#) (132 replies)
-  [How is Palmdale?](#) (85 replies)
-  [Where are all of the African American people going?](#) (59 replies)
-  [How is the future out look of Palmdale California?](#) (44 replies)
-  [looking for moving to san bernardino, palmdate, or lancaster](#) (10 replies)

Latest news from Little Rock, CA collected exclusively by city-data.com from local newspapers, TV, and radio stations

[AV Press: Little Rock picnic salute to youth](#)

The **Little Rock** Town Council and County of Los Angeles Department of Parks and Recreation are throwing the first Salute to the Youth: 4th of July Picnic in the Park. ([avpress.com](#))

[AV Press: Little Rock leads the way](#)

performs Monday for children and their families at the **Little Rock**

Library. (avpress.com)

AV Press: Highway 138 businesses suffering

travelers driving past their Penney Lynn Wind Toys in **Littlerock**. "Our business is 90% tourists, and with these confusing signs up, we are losing business," Penney Lynn Gertz said. (avpress.com)

[More news from Littlerock, CA](#)

Ancestries: German (16.5%), Italian (12.1%), English (6.8%), Irish (5.8%), French (2.2%), United States (2.1%).

Elevation: 2830 feet

Land area: 1.4 square miles.

Population density: 967 people per square mile (low).

For population 25 years and over in Littlerock

- High school or higher: 69.7%
- Bachelor's degree or higher: 1.8%
- Graduate or professional degree: 1.1%
- Unemployed: 11.3%
- Mean travel time to work: 35.3 minutes

For population 15 years and over in Littlerock CDP

- Never married: 22.1%
- Now married: 67.9%
- Separated: 0.6%
- Widowed: 3.5%
- Divorced: 5.9%



156 residents are foreign born (6.9% Latin America, 3.9% Europe).

This city: 11.1%

California: 26.2%

According to our research there were **22 registered sex offenders living in Littlerock, California** in early 2007.

The ratio of number of residents in Littlerock to the number of sex offenders is 64 to 1.

Median real estate property taxes paid for housing units in 2000:

Littlerock: ██████████ 1.2% (\$1,057)

California: ██████████ 0.7% (\$1,564)

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[Littlerock CA Real Estate](#) - Search Littlerock Home Listings View by Photos, Price, Size & More. (www.homes-just-listed.com)

[Palmdale-Lancaster MLS](#) - REO's, Foreclosures, Short Pays MLS Market conditions and MLS access (www.racrealtor4u.com)

[Affordable LA Homes](#) - You can own your home in Palmdale and Lancaster, CA (www.youravhome.com)

Nearest city with pop.
50,000+: [Palmdale, CA](#) 📷
(8.5 miles ↙, pop. 116,670).

Nearest city with pop.
200,000+: [Los Angeles, CA](#)
📷 (40.3 miles ↙, pop. 3,694,820).

Nearest cities: [Palmdale, CA](#)
📷 (8.5 miles ↙), [Desert View Highlands, CA](#) (12.1 miles ↙), [Lake Los Angeles, CA](#) 📷 (12.5 miles ↗), [Acton, CA](#) 📷 (13.8 miles ↙), [Lancaster, CA](#) 📷 (15.9 miles ↙), [Quartz Hill, CA](#) 📷 (18.1 miles ↙), [Sierra Madre, CA](#) 📷 (25.3 miles ↓), [Altadena, CA](#) 📷 (25.3 miles ↘).



Latitude: 34.53 N, Longitude: 117.99 W



Mojave, California

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California City Homes

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Mojave Hotels

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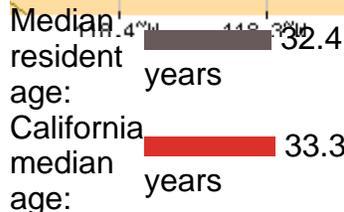
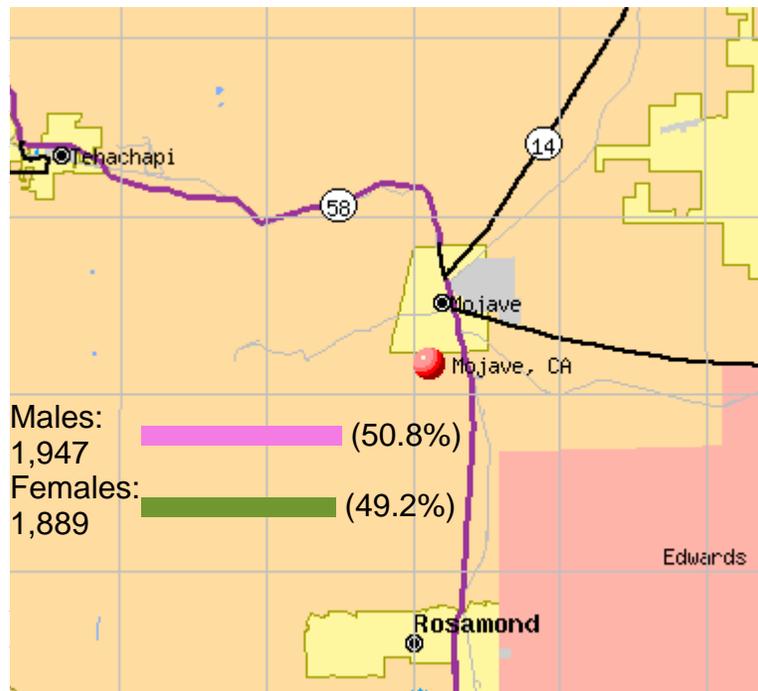
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www.RiderPlanet.com

Zip codes: [93501](#).

[Find City](#)

Estimated median household income in 2005:
\$28,100 (it was \$24,761 in 2000)
Mojave  \$28,100
California:  \$53,629

Estimated median house/condo value in 2005:
\$127,600 (it was \$56,500 in 2000)
Mojave  \$127,600
California:  \$477,700

[Mojave, CA residents, houses, and apartments details](#)

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Profiles of local businesses:
[Bobs Army Navy Store](#)

Races in Mojave:

- White Non-Hispanic (59.7%)
- Hispanic (28.3%)
- Other race (18.1%)
- Black (5.6%)
- Two or more races (5.3%)
- American Indian (2.7%)
- Asian Indian (0.9%)

(Total can be greater than 100% because Hispanics could be counted in other races)



Recent posts about [Mojave, California on our local forum](#) with over 100,000 registered users. Mojave is mentioned 53 times on our forum:

-  [Tone of this forum](#) (130 replies)
-  [Whats Mojave like?](#) (7 replies)
-  [How is Palmdale?](#) (85 replies)
-  [moving to palmdale, ca - questions](#) (132 replies)
-  [Would you buy a home in Lancaster,CA now \(if you only planned to be in it 2-4](#)

yrs)? (60 replies)

 [Retiring Outside of California](#) (37 replies)

Latest news from Mojave, CA collected exclusively by city-data.com from local newspapers, TV, and radio stations

[AV Press: Fire toll climbs to 18 structures](#)

shelter at White's Motel/Days Inn, 16100 Sierra Highway in **Mojave**, for residents threatened by the wildfire. Officials said no evacuees have utilized the shelter since Sunday. ([avpress.com](#))

[Desert Dispatch : Top Story: New helicopters assist with space shuttle landing fort irwin okita](#)

over Cape Canaveral pushed the landing site west to the **Mojave** Desert on Friday, June 22. Though no one on the shuttle needed medical attention after the smooth landing, the mission provided an opportunity to test the ([desertdispatch.com](#))

[The Community Voice Rohnert Park Cotati Penngrove News](#)

The **Mojave** Desert is, as visitors note, mean, hot and dry much of the year. Part of that desert is Death Valley. Your daily weather reports will, all summer, call it the ([thecomunityvoice.com](#))

[More news from Mojave, CA](#)

Ancestries: German (9.7%), Irish (8.2%), United States (7.1%), English (5.6%), Italian (2.0%), French (2.0%).

Elevation: 2757 feet

Land area: 58.4 square miles.

Population density: 66 people per square mile

 (very low).

For population 25 years and over in Mojave

- High school or higher: 71.5%
- Bachelor's degree or higher: 6.1%
- Graduate or professional degree: 2.5%
- Unemployed: 14.9%
- Mean travel time to work: 22.9 minutes



For population 15 years and over in Mojave CDP

- Never married: 27.2%
- Now married: 47.0%
- Separated: 2.9%
- Widowed: 6.7%
- Divorced: 16.2%

531 residents are foreign born (11.0% Latin America, 2.4% Asia).

This city:  13.8%

California:  26.2%

According to our research there were [11 registered sex offenders living in Mojave, California](#) in early 2007.

The ratio of number of residents in Mojave to the number of sex offenders is 349 to 1.

Median real estate property taxes paid for housing units in 2000:

Mojave:  1.0% (\$550)

California:  0.7% (\$1,564)

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Nearest city with pop.
50,000+: [Lancaster, CA](#) 
(22.9 miles ↓, pop. 118,718).

Nearest city with pop.
200,000+: [Bakersfield, CA](#)
 (62.5 miles ↖, pop. 247,057).

Nearest city with pop.
1,000,000+: [Los Angeles, CA](#)
 (65.6 miles ↘, pop. 3,694,820).

Nearest cities: [Rosamond, CA](#)  (10.5 miles ↓), [Edwards AFB, CA](#) (18.8 miles ↘), [Tehachapi, CA](#)  (19.4 miles ↖), [Golden Hills, CA](#) (22.8





Desert View Highlands, California

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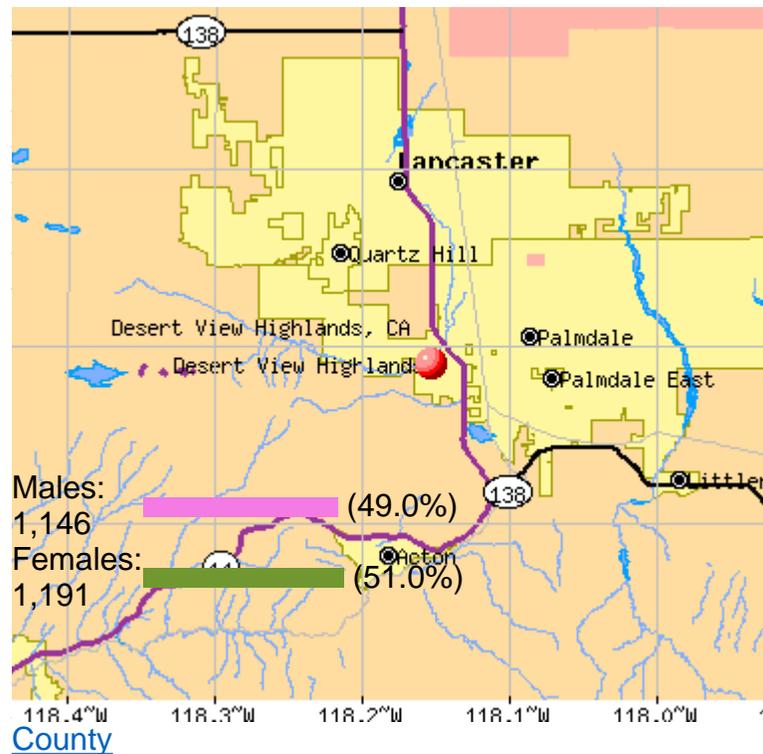
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[County](#)

Median resident age: 32.6 years
 California median age: 33.3 years

Zip codes: [93551](#).

Estimated median household income in 2005:
 \$42,700 (it was \$37,341 in 2000)

Desert View Highlands		\$42,700
California:		\$53,629

Estimated median house/condo value in 2005:

\$202,900 (it was \$88,400 in 2000)
 Desert View Highlands  \$202,900
 California:  \$477,700

[Desert View Highlands, CA residents, houses, and apartments details](#)

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Races in Desert View Highlands:

- White Non-Hispanic (51.6%)
- Hispanic (36.8%)
- Other race (19.8%)
- Two or more races (7.4%)
- Black (5.9%)
- American Indian (3.3%)
- Filipino (0.9%)
- Vietnamese (0.7%)

(Total can be greater than 100% because Hispanics could be counted in other races)



Discuss [Desert View Highlands, California on our local forum](#) with over 100,000 registered users

Ancestries: German (9.9%), Italian (8.2%), Irish (6.0%), English (5.5%), Danish (2.9%), Scotch-Irish (2.1%).

Elevation: 2700 feet

Land area: 0.5 square miles.

Population density: 4950 people per square mile  (average).

For population 25 years and over in Desert View Highlands

- High school or higher: 78.1%
- Bachelor's degree or higher: 16.7%
- Graduate or professional degree: 6.0%



- Unemployed: 10.7%
- Mean travel time to work: 38.8 minutes

For population 15 years and over in Desert View Highlands CDP

- Never married: 16.1%
- Now married: 61.1%
- Separated: 1.0%
- Widowed: 5.7%
- Divorced: 16.2%

327 residents are foreign born (10.8% Latin America, 2.1% Asia).

This city: 14.0%

California: 26.2%

According to our research there were **no registered sex offenders** living in this city in early 2007.

Median real estate property taxes paid for housing units in 2000:

Desert View Highlands: 1.0% (\$873)

California: 0.7% (\$1,564)

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[Antelope Valley New Homes](#) - Free Brochure of Pulte Homes in Quartz Hill & Lancaster CA area. (bakersfield.pulte.com)

[Apartment Units for Sale](#) - Specialize in Listing & Sales of Apartment Units in Southern Calif. (www.schwierincomeproperties.com)

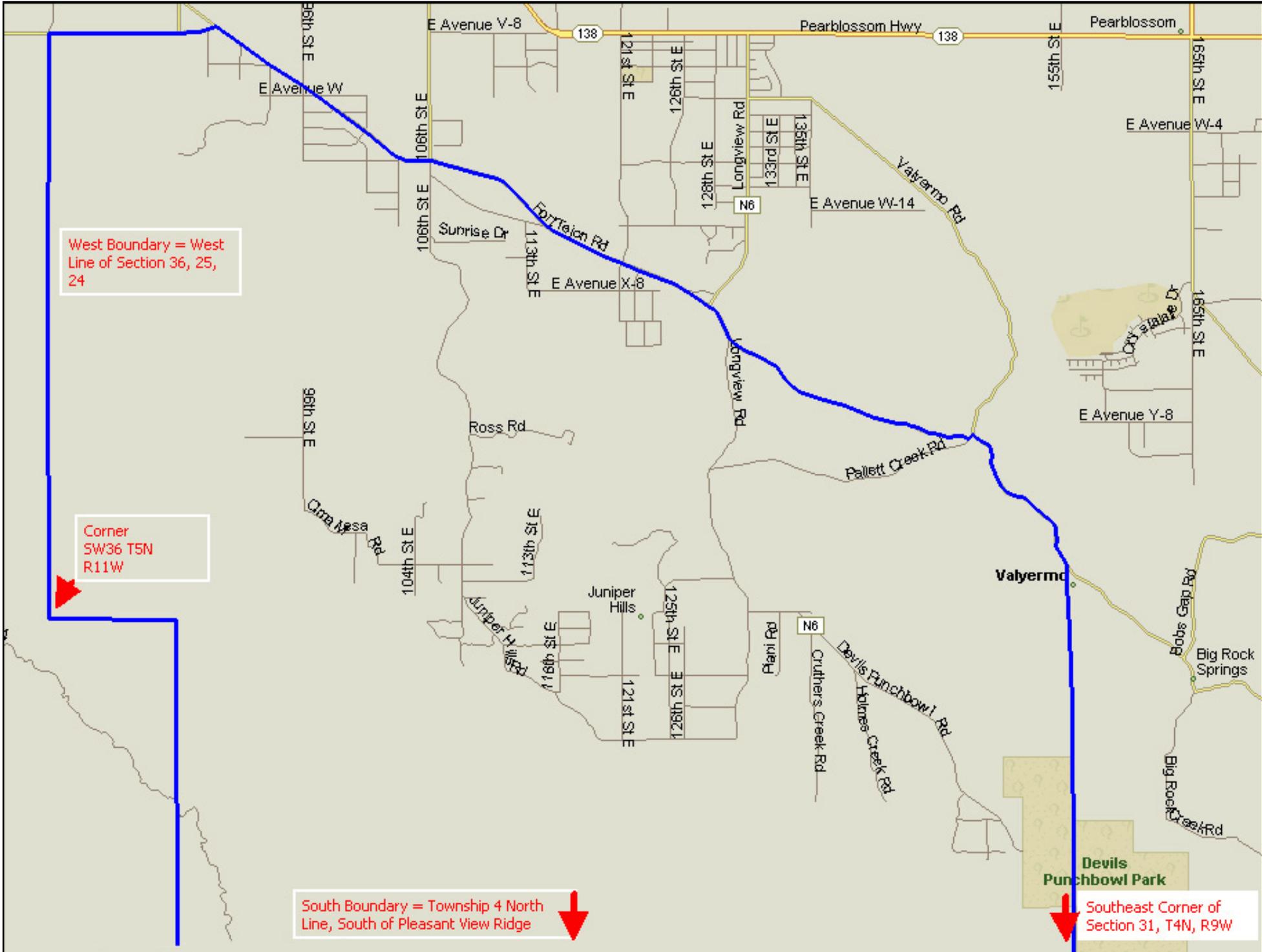
[Palmdale-Lancaster MLS](#) - REO's, Foreclosures, Short Pays MLS Market conditions and MLS access (www.racrealtor4u.com)

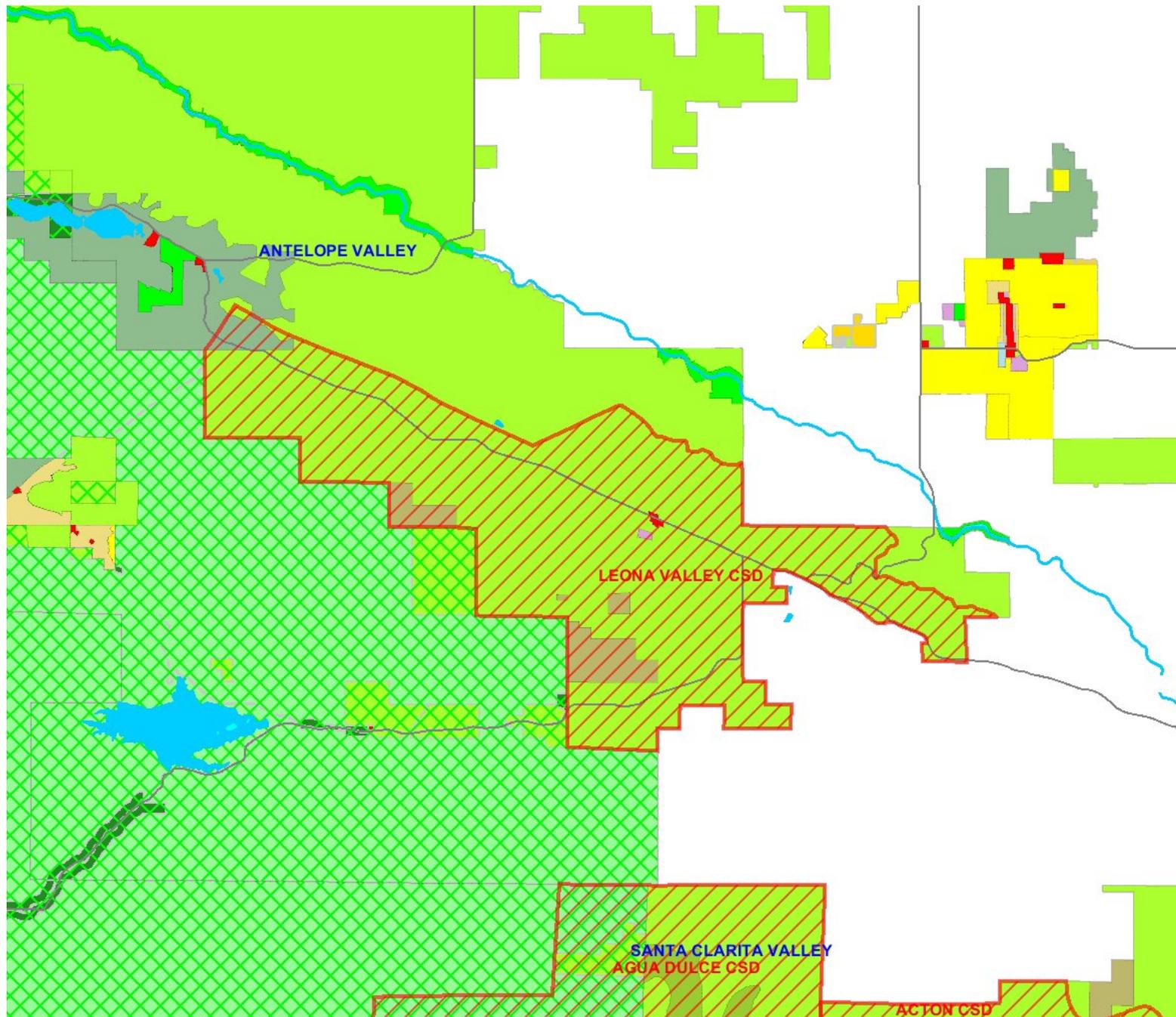
Nearest city with pop.
50,000+: [Palmdale, CA](#)
(3.7 miles , pop. 116,670).

Nearest city with pop.
200,000+: [Los Angeles, CA](#)
 (38.0 miles , pop.
3,694,820).

Nearest cities: [Palmdale, CA](#)
 (3.7 miles , [Quartz Hill, CA](#) (6.3 miles ,
[Lancaster, CA](#) (6.7 miles ,
[Acton, CA](#) (8.4 miles ,
[Littlerock, CA](#) (12.1 miles ,
, [Rosamond, CA](#) (19.4



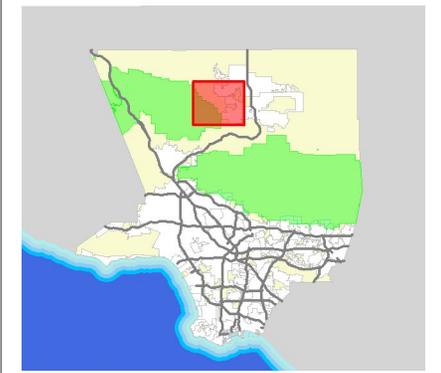




Legend

- Parcel Boundary
- Arterial Street
- Highway
- Freeway
- Master Plan of Highways
 - Expressway - (e)
 - Expressway - (p)
 - Ltd. Secondary Highway - (e)
 - Ltd. Secondary Highway - (p)
 - Parway - (e)
 - Parway - (p)
 - Major Highway - (e)
 - Major Highway - (p)
 - Secondary Highway - (e)
 - Secondary Highway - (p)
 - (e)-Existing (p)-Proposed
- Railroad or Rapid Transit
 - Railroad
 - Rapid Transit
 - Underground Rapid Transit
- Significant Ridgelines
 - Catastic CSD Primary
 - Catastic CSD Secondary
 - SMMNA Significant
- Census Tract (2000)
- Assessor Map Book (AMB) Bdy
- Zoning Index Map Grid
- Zoning Map Grid
- USGS Quad Sheet Grid
- The Thomas Guide Grid
- TB Internal Page Grid
- Very High Fire Hazard Severity Zone
- Community Standards District (CSD)
- CSD Area Specific Boundary
- ESHA (Coast Only)
- Significant Ecological Area (SEA)
- Section Line
- Township and Range
- National Forest
- Equestrian District (EQD)
- Transit Oriented District (TOD)
- Setback District
- Zoned District (ZD)
- Supervisory District Boundary
- Safety Related Stations (From TB)
 - Fire Station
 - Highway Patrol
 - Police Station
 - Ranger Station
 - Sheriff Station
- Zoning
 - Zone A-1
 - Zone A-2
 - Zone B-1
 - Zone B-2
 - Zone C-1
 - Zone C-2
 - Zone C-3
 - Zone C-H
 - Zone C-M
 - Zone CPD
 - Zone C-R
 - Zone D-2
 - Zone I7
 - Zone M-1
 - Zone M-1.5
 - Zone M-2
 - Zone M-3
 - Zone MPD
 - Zone MKD
 - Zone O-S
 - Zone P-R
 - Zone R-1
 - Zone R-2
 - Zone R-3 (JU)
 - Zone R-4 (JU)
 - Zone R-A
 - Zone RPD
 - Zone R-R
 - Zone SR
 - Zone SR-D
 - Zone SW
- Landuse Policy (Not in Comm / Area Plan)
 - 1 - Low Density Residential (1 to 6 du/ac)
 - 2 - Low/Medium Density Residential (6 to 12 du/ac)
 - 3 - Medium Density Residential (12 to 22 du/ac)
 - 4 - High Density Residential (22 or more du/ac)
 - C - Major Commercial
 - I - Major Industrial
 - O - Open Space
 - P - Public and Semi-Public Facilities
 - RC - Rural Communities
 - R - Non-Urban
 - TC - Transportation Corridor
- Inland Waterbody
 - Perennial
 - Intermittent
 - Dry

Note: This is a static legend, which includes only a portion of layers. To get full legend, please use "Display Map Legend tab" on the top left side of screen.



Los Angeles County
Southeast Antelope Valley
Community Standards District

Legend:

-  Streets
-  Commercial Standards Area
-  Southeast Antelope Valley CSD Boundary
-  Angeles National Forest
-  Unincorporated Area

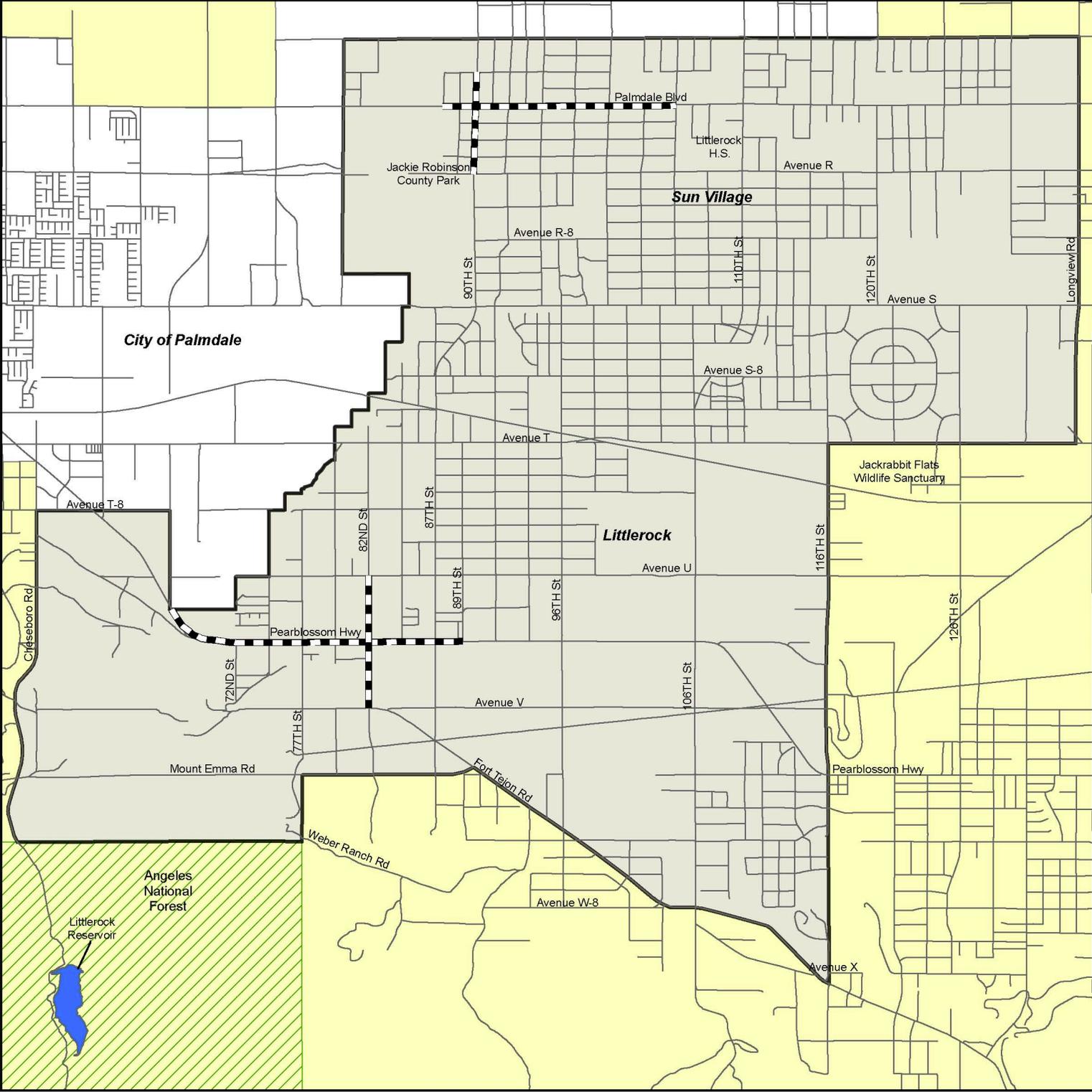
Key Map:



0 0.2 0.4 0.8 1.2 1.6 Miles



Los Angeles County
 Department of Regional Planning
 320 W. Temple St.
 Los Angeles, CA 90012



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Town Council Contact Information

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ANTELOPE VALLEY TOWN COUNCILS

ASSOCIATION OF RURAL TOWN COUNCIL (ARTC)

P.O. Box 358, Littlerock, CA 93543-0358

Meetings are the last Thursday of the month at 7:00 pm
North County Training Center
Fire Station 129
42110 N. 6th Street West
Lancaster, CA 93534

Director: Wayne Argo
(661) 944-6175 hm
(661) 257-4841 x6907 wk
(661) 609-3233 cell
wayneargo@hughes.net

Assistant Directors:

Ronni Digiovani
(661) 944-2778
revronnia@yahoo.com

Chuck Crandall
(661) 270-1835
chuxranch@rpmwin.com

Roger Gillen
(661) 724-1057

ACTON TOWN COUNCIL
P.O. Box 810, Acton CA 93510

Meetings are on the 1st & 3rd Monday of the Month 7:30 p.m.
Acton Community Center
3748 W. Nickels Avenue
Acton, CA 93510

President : Ray Garwacki
35233 Via Famerio
Acton, CA 93510
(661) 269-8080 hm
(661) 269-8020 fax
(661) 202-9925 cell
(323) 344-4100 work
rgarwacki@prodigy.net

Vice-President: Dick Morris
2703 West Sierra Highway
Acton, CA 93510
(661) 947-9725 hm
(661) 269-5012 wk
(661) 269-1556 fax
(661) 547-5273 cell
bmiacton@aol.com

Treasurer: Robert Connelly
P.O. Box 513
Acton, CA 93510
(661) 269-5675 hm
(661) 547-3440 wk

Secretary: Michael Hughes
34805 Acton Cyn. Road
Acton, CA 93510
(661) 269-1342 hm
(213) 207-5785 wk
m_r_hughes@earthlink.net

Member: Ray F. Billet
31880 Aliso Canyon Road
Palmdale, CA 93550
(661) 947-2796
blumranch@aol.com

Member: Bill Davis
35525 Crown Valley Road
Acton, CA 93510
(661) 269-3682 hm
(213) 473-0086 wk
(661) 269-3683 fax
wdavis289@aol.com

Member: Carl Young
35927 Trenmar Drive
Acton, CA 93510
(661) 342-1983 hm
(661) 342-1983 cell
cyengineer@direcway.com

Member: Jacki Ayer
2010 West Avenue K #701
Lancaster, CA 93536
(661) 269-2588 hm
(661) 269-1981 wk
(949) 278-8460 cell
AirSpecial@aol.com

Member: Michael Foster
34575 Desert Road
Acton, CA 93510
(661) 269-2879 hm
(661) 714-3349 wk
mnk@earthlink.net

Antelope Acres Town Council
P.O. Box 8176, Lancaster, CA 93539

Meetings are on the 3rd Wednesday of the month at 6 p.m.
Community Center
8812 West Avenue E-8
Antelope Acres, CA 93536

President: Vicki Nelson
(661) 942-2198
nelsonacres3@yahoo.com

Vice President: Ron Hawkins
(661) 435-2566 cell

Treasurer: Wayne Whitfield
(661) 728-0067

Secretary: Ginger Stout
9136 West Avenue F-4
Lancaster, CA 93536
(661) 948-4359 hm

Member: Colleen Schiller
8818 West Avenue D-4
Antelope Acres, CA 93536-8775
661-728-0841 Home
661-510-3116 Cell

Green Valley Town Council

P. O. Box 846, Green Valley, CA 91350-1006

Meetings are held on the 2nd Monday of the month at 7:00 pm
Community Center
39118 Calle Bonita
Green Valley, CA 91350

President: Kimberly Wood
39203 Calle Essencial
Green Valley, CA 91390
(661) 270-0798

Vice President: Dorothy Marks
16054 Hermosa
Green Valley, CA 91390

Correspondence Secretary: Mark Wood
39203 Calle Essencial
Green Valley, CA 91390

Treasurer: Gordon Jacks
15942 Hermosa
Green Valley, CA 91390

Recording Secretary: Jay Winters
15543 Calle Hermosa
Green Valley, CA 91390

1st Alternate: John Zopelis
15129 Calle Verdad
Green Valley, CA 91390

Juniper Hills Town Council
P.O. Box 633, Littlerock, CA 93543

Meetings are held on the 1st Wednesday of the even months at 7:00 pm
Juniper Hills Community Center
31401 N. 106th Street East, Juniper Hills, CA 93543

President: Vance Pomeroy
29319 N. 121st St. East
Juniper Hills, CA 93543
(661) 944-7474
punchbowl4@earthlink.net

Vice President: Suzanne Richter
P.O. Box 290
Pearblossom, CA 93553
(661) 944-6256
Suzanne93553@yahoo.com

Treasurer: Dave Reichel
10570 Cima Mesa Rd
Juniper Hills, CA 93543
(661) 944-4252
caveman1@qnet.com

Secretary: Don Pierce
29441 N. 106th St. East
Juniper Hills, CA 93543
(661) 944-1019
dpflyer@antelecom.net

Member: Michael Weatherbie
9950 Cima Mesa Rd.
Juniper Hills, CA 93543
(661) 944-1351
mikew@qnet.com

Member: Douglas DiJulio
P.O. Box 605
Littlerock, CA 93543
(661) 944-2412
d.dijulio@worldnet.att.com

Member: Walt Grabe
P.O. Box 57
Pearblossom, CA 93553
(661) 944-3667
waltgrabe44@msn.com

Lake Los Angeles Town Council

40642 N. 158th Street East
Lake Los Angeles, CA 93535

Meetings are held on the 4th Tuesday of the month at 7:00 pm
Vista San Gabriel Elementary School
18020 East Avenue O, Lake Los Angeles, CA 93591

President: Marlene Olivares
17238 Queensglen Street
Palmdale, CA 93591
(661) 264-4266
77tink@sbcglobal.net

Vice President: Lori Peterson
40263 N. 161st Street East
Palmdale, CA 93591
(661) 234-1319
haeyou@hotmail.com

Treasurer: Robin Nute
16625 Jubilee Trail
Palmdale, CA 93591
(661) 264-0138
rrarabians@yahoo.com

Corresponding Sec'y: Scott Lezak
38905 161st Street East
Palmdale, CA 93591
(661) 264-2450
risingclouds@sbcglobal.net

Recording Sec'y: Richard Davis
17739 Mosssdale
Lancaster, CA 93535
(661) 264-4241
brfaithful@adelphia.net

Member: Kathy Terronnes
40902 N. 163rd Street East
Lancaster, CA 93535
(661) 264-1289
kandv.t@sbcglobal.net

Lakes Town Council
P.O. Box 784, Lake Hughes, CA 93532

Meetings are held on the 1st Saturday of the month at 8:30 am
Lake Hughes Community Center
17520 Elizabeth Lake Road
Lake Hughes, CA 93532

President: Teri Gordon
P.O. Box 335
Lake Hughes, CA 93532
(661) 724-2592 (wk)
(661) 724-0933 (home)
terigordon@pjdehaasproperties.com

Vice President: Tony DeMilita
P.O. Box 3
Lake Hughes, CA 93532
(661) 724-0785 (home)
(661) 916-3481 (cell)
tonytretony@msn.com

Treasurer: Doris Karabinus
P.O. Box 21
Lake Hughes, CA 93532
(661) 724-2243 (home)
(661) 609-3888 (cell)
dkarabinus@aol.com

Secretary: Peggy Moore
14519 Flintstone Dr.
Lake Elizabeth, CA 93532
(661) 724-2122 (home)
Magiemam@msn.com

Member: Karen Graham
43333 Lookabout Road
Lake Elizabeth, CA 93532
(661) 724-1298 (home)
(310) 351-9971 (cell)
kdgraham@yahoo.com

Alternate: Chuck Kevwitch
P.O. Box 927
Lake Elizabeth, CA 93532
(661) 724-8325 (home)
spykes@msn.com

Alternate: Tad Summers
15159 Barcroft Drive
Lake Elizabeth, CA 93532
(661) 724-1406 (home)
(661) 964-7416 (cell)
tadsummers@hotmail.com

Leona Valley Town Council

P.O. Box 795, Leona Valley, CA 93551-0795

<http://leonavalleytowncouncil.org>

Meetings are held on the 2nd Monday of the month at 7:30 pm
Leona Valley Community Center
8367 Elizabeth Lake Road, Leona Valley, CA 93551

President: Rich Thomas
9250 Elizabeth Lake Road
Leona Valley, CA 93551
(661) 270-0099 hm
Rrych@cs.com

Treasurer: William Elliot
40015 N. 72nd Street West
Leona Valley, CA 93551
(661) 270-9017 hm
(661) 572-6015 wk
(661) 400-0658 cell
(888) 933-7259 pager
william.elliott@lmco.com
bill_and_pam_elliott@prodigy.net

Secretary: Alexis Upton-Knittle
40203 N. 107th Street West
Leona Valley, CA 93551
(661) 270-0065 hm
(661) 270-0057 fax
(661) 406-6386 cell
AUK9@earthlink.net

Vice President: Terry Kenney
10705 Leona Avenue
Leona Valley, CA 93551
(661) 270-9042 hm
(661) 270-3200 wk
(661) 270-9232 fax
(661) 305-2501 Cell
Herdem@aol.com

Member at Large: Robert Wood
10300 Leona Avenue
Leona Valley, CA 93551
(661) 270-9745
robertwood8401@sbcglobal.net

Alternate: Larry Tyler
40255 98th Street West
Leona Valley, CA 93551
(661) 270-1070
tccprez@adelphia.net

Little Rock Town Council
P.O. Box 190, Little Rock, CA 93543

Meetings are held on the 2nd Thursday of the month at 7:00 pm
Alpine Grange, 8650 East Avenue T-8
Little Rock, CA 93543

President:

Dennis Tetu
9259 East Avenue T-4
Little Rock, CA 93543
(661) 944-4583 hm
(661) 492-8823 cell

Vice President:

William Guild
8730 East Avenue T-4
Little Rock, CA 93543
(661) 944-4447 hm
(661) 433-7597 cell
artfx@rglobal.net

Secretary:

Irene Wilson
8716 East Avenue T-4
Little Rock, CA 93543
(661) 944-3472
gemimitwin34@aol.com

Treasurer:

Steve Rouch
8300 Pearblossom Highway
Little Rock, CA 93543
(661) 944-5000 hm
(661) 609-2264 cell

Councilwoman:

Melissa Garcia
35945 N. 94th Street East
Little Rock, CA 93543
(661) 944-9662 hm

Councilman:

Ed Minghelli
35303 Alberta Place
Little Rock, CA 93543
(661) 264-1773

Councilwoman:

Leslie Alameida
11254 East Avenue R-2
Little Rock, CA 93543
(661) 944-6576

Quartz Hill Town Council
42263 N. 50th Street West, Suite 106 #1111
Quartz Hill, CA 93536
<http://qhgc.av.org>

Meetings are held on the 3rd Tuesday of the month at 6:30 pm
George Lane Park
5520 West Avenue L-8, Quartz Hill, CA 93536

President: Loretta Berry
4815 West Avenue L-2
Quartz Hill, CA 93536
(661) 816-5069 (cell)
(661) 943-7650 (hm)
quartzhilltowncouncil@yahoo.com

Vice President: Bill Tibbitts
5145 West Avenue M
Quartz Hill, CA 93536
(661) 943-8296 (hm)
SRTIB@msn.com

Treasurer: Pat Hartford
42036 N. 52nd Street West
Quartz Hill, CA 93536
(661) 943-2177
hartfordhouse@msn.com

Secretary: Tammany Fields
5105 Ruby Court
Quartz Hill, CA 93536
(661) 943-8855 (hm)
tammanykfields@hotmail.com

Member: Michelle Ellis
4525 West Avenue K-10
Quartz Hill, CA 93536
(661) 722-7414 (hm)
Presmeident17@yahoo.com

Member: Tim Murphy
5351 West Avenue L-8
Quartz Hill, CA 93536
(661) 943-2372 (hm)
TITAKY@intheav.com

Member: Andrea Tibbitts
5145 West Avenue M
Quartz Hill, CA 93536
(661) 943-8296
grammabucky@msn.com

Roosevelt Town Council

48157 70th Street East
Lancaster, CA 93535

No regularly scheduled meetings

President: Barbara Firsick
48157 N. 70th Street East
Lancaster, CA 93535
(661) 946-1323

Vice President: Ron Ferrell
48201 N. 70th Street East
Lancaster, CA 93535
(661) 946-1355

Secretary: Gayleen McGarry
5163 East Avenue F
Lancaster, CA 93535
(661) 946-2458

Treasurer: Doris Hoepfner
47670 N. 65th Street East
Lancaster, CA 93535
(661) 946-4130

Board Member: Myrle McLernon
8503 East Avenue J
Lancaster, CA 93535
(661) 946-8208

Board Member: Justin Self
9037 East Avenue E
Lancaster, CA 93535
(661) 946-1501

Board Member: Mary Carreon
6210 East Avenue E
Lancaster, CA 93535
(661) 946-7288

Sun Village Town Council
P.O. Box 151, Littlerock, CA 93543

Meetings are held on the 4th Monday of the month 7:00 pm
At the Shaw Building,
9657 East Avenue Q-10, Littlerock, CA 93543

President: James Brooks
37114 N. 94th East
Littlerock, Ca. 93543
(661) 944-2594
brooks@dslextreme.com

Member: Marrion Tryon
37160 Littlerock Ranchos Road
Littlerock, Ca. 93543
(661) 209-1412

Vice President: Eugene Washington
10829 East Ave. S
Littlerock, Ca. 93543
(661) 944-0390

Member: Andrew Zenno

(661) 944-1186
drew49@dslextreme.com

Treasurer:

Secretary: Caroline Hick
10205 East Avenue R-6
Littlerock, CA 93543
(661) 944-3601

Alternate: Paul Frisbey

(661) 944-4196

Member: Albert Ewing
10025 East Avenue R
Littlerock, CA 93543
(661) 733-8678

Member: Dr. William Shaw
10709 East Avenue R
Littlerock, CA 93543
(661) 944-1155

Three Points/Liebre Mountain Town Council

P. O. Box 617
Lake Hughes, CA 93532

Meetings are held the second Saturday of every other month
at 9:30 a.m.

President: Larry L. Myers
Rancho Monte Nido
30100 Pine Canyon Road
Lake Hughes, CA 93532
(661) 248-6564
larmyers@earthlink.net

Vice President: Chris Wangsgard
26750 Pine Canyon Rd.
Lake Hughes, CA 93532
(661) 724-7871
cathywangsgard@aol.com

Secretary: Ms. K. D. Kuch
Running Well Ranch
27721 Pine Canyon Road
Lake Hughes, CA 93532
kdkuch@verizon.net

Treasurer: Dick Zahnter
46834 N. 266th Street West
Lake Hughes, CA 93532
(661) 724-2043
threepointsmach@yahoo.com

Member: Louis Bell
28767 Pine Canyon Road
Lake Hughes, CA 93532
(661) 724-9070
Office: (310) 859-1502
nancyvb@aol.com

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EJCW Correspondence

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From: deborah.s.davis@gmail.com [mailto:deborah.s.davis@gmail.com] **On Behalf Of** Debbie Davis
Sent: Monday, May 14, 2007 9:02 AM
To: Barrett, Melinda
Cc: Amy Vanderwarker
Subject: Antelope Valley IRWMP

Hi Melinda,

My colleague, Amy Vanderwarker, forwarded me your contact information. I participated in our Bay Area IRWMP and have been working on statewide policy to improve access to the process for disadvantaged communities.

It's great to hear that you're working on outreach to disadvantaged communities. I'm glad to hear that you are working on translating your website to Spanish. I think you'll find it useful to have the materials available in Spanish.

I'd be happy to speak to you in more details, but below are just a few suggestions on successfully engaging EJ community members. I've cc'ed Amy on this too. She is our outreach coordinator and can probably clarify and add to my suggestions from her experience. To do this successfully will require not only your commitment, but the commitment of all of the participating agencies.

Also, one caveat before I continue. It is really important to have a clear sense of how EJ communities can influence the IRWM process. I have seen many regions around the state engage EJ communities just to "check a box" on their grant application. Some suggestions for ensuring adequate access to the process include:

- 1) Include an EJ Community representative on the governing body.
- 2) Provide technical assistance, both to facilitate participation, and to assist with project development.
- 3) Make sure that the on-going governance structure defined in the Plan includes a prominent role for EJ communities, including some influence over which projects are selected for future implementation grants and that there is mechanism for EJ communities to participate in the evaluation of the plan over time.

General suggestions:

- 1) Identifying the communities is the easy part. You can use census data to identify where the communities are located. You'll find many in the region you're working in - don't forget any Tribes in the area. You won't necessarily capture them in the census data, but you can contact the California Native American Heritage Commission to find out which Tribes are in your region.

The water agencies that serve the communities should be asked to help you identify communities and do outreach. It will be useful for them to identify and be in contact with the EJ communities in their district. For areas served by small water systems you might

start by contacting the small water system directly. The reality is that one person can not do outreach to an entire region alone.

2) Personal contact and trust building are really important when working with EJ communities. Once you've made contact you may want to have a number of community meetings around the region. Be prepared, though, community members may wish to discuss an array of issues, not all of them related to water. It's important to give them the opportunity and to listen. That will help to build trust and assure the community members that you are really interested in them and not just there to get what you need. Community meetings should still provide you the opportunity to explain the IRWM process and the potential it has to benefit their community. This is a hard thing to do because of how the process is organized. First, a group has to invest a bunch of resources in the plan development and then they have to stay involved to ensure that implementation grants have their projects included. You might, in conjunction with the local water agencies, think about any additional ways the community can benefit in the shorter term from participating.

3) Keep contacting communities over and over. Because internet access is not necessarily available, this will require phone calls. Also, be sure that you transmit materials in hard-copy in addition to the web. If the meetings are difficult to get to, you may need to provide transportation. If the meetings are during the work day, providing stipends to replace lost income and to account for childcare and other costs will increase participation.

4) At meetings, make sure that "professionals" are listening to community members (which obviously requires that all meeting documents be translated and that interpretation be provided at the meeting) and, while being respectful, are conveying information in a comprehensible fashion. We did manage to get some community members to the first Bay Area IRWM meeting, but the discussion was so disconnected from their daily lives and the potential pay-off so distant and unlikely that they refused to return. Instead, we ended up sending a consultant out to work with the communities off-line to develop projects that would benefit their communities.

Feel free to give me a call if I can be of any additional assistance.

Debbie

--

Debbie Davis
Legislative Analyst
Environmental Justice Coalition for Water
654 13th St.
Preservation Park
Oakland, CA 94612
(510)286-8400

From: AV Conservancy [mailto:avconservancy@yahoo.com]
Sent: Tuesday, May 01, 2007 4:35 PM
To: Barrett, Melinda; Gallardy, Heather; Ken Kirby; Lauren Everett
Subject: AV IRWM Disadvantaged Communities Outreach

Hello All,

Cindy Rofer-Wise is in a position to assist DACs formulate and document project and grant proposals. It is my understanding that you may publish her contact information for that purpose, but you can verify with her directly.

Cindy's phone number is (530) 542-5408 and her email address is cwise@waterboards.ca.gov. See email below.

Additionally, capacity-building grants are available for disadvantaged communities, that could help them to hire assistance, and Cindy can help refer people for those as well.

Lastly, Judith Keir has provided additional information about other DAC advantages, that I will forward immediately in separate email.

Wendy

Cindy Rofer-Wise <CWise@waterboards.ca.gov> wrote:
Date: Tue, 01 May 2007 15:56:07 -0700
From: "Cindy Rofer-Wise" <CWise@waterboards.ca.gov>
To: <avconservancy@yahoo.com>
CC: "Judith Keir" <JKeir@waterboards.ca.gov>,
"Scott Couch" <SCOUCH@waterboards.ca.gov>
Subject: Antelope Valley IRWM and Disadvantaged Communities Outreach

To Wendy Reed/Antelope Valley Conservancy

Wendy,

Following up on our telephone conversation earlier today regarding outreach to disadvantaged communities in the Antelope Valley, I will be happy to lend what assistance I can. I can share my experiences with how other IRWM groups accomplished outreach to disadvantaged communities (DAs), as well as my experiences with other grant programs. I can also offer technical advice regarding proposed projects that may focus on DAs, again based on my prior grant experience.

Although I can only participate for the first half-hour, I would be happy to phone into your Antelope Valley IRWM Outreach Committee meeting that you have scheduled for Wednesday, May 3. Please forward the phone number to me.

Thank you for your interest in community outreach about water management and planning.

Cindy
(530) 542-5408
cwise@waterboards.ca.gov

Antelope Valley Conservancy
P.O. Box 3133
Quartz Hill, CA 93586-3133
avconservancy@yahoo.com
www.avconservancy.org
tel (661) 943-9000
fax (661) 943-3306

Community Sign In Sheets

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ASSOCIATION OF RURAL TOWN COUNCILS
 PO Box 358
 Littlerock, CA 93543-0358
 Wayne Argo, Director
 661-944-6175

ARTC SIGN IN SHEET

LOCATION: Fire Station 129 DATE: 04/26/07

NAME (Please Print)	PHONE	E-MAIL
Association of Rural Town Councils		
1. WAYNE ARGO	661-944-6175	wayneargo@hughes.net <i>Way</i>
2. RONNI DIGIOVANNI	661-944-2778	revronnid@yahoo.com <i>Ro</i>
3. CHUCK CRANDALL	661-270-1835	chuxranch@rpmwin
4. _____	_____	_____
5. R. FERRELL LASD/PLM	272-2418	RWFERRELL@LASD.ORG
6. _____	_____	_____
7. _____	_____	_____

Acton Town Council		
1. Dick MORRIS	661-547-5273	Lmiactone@aol.com
2. Carl Young	661-342-1983	cyengineer@msn.com
3. Reg & Billie	661 947-2796	
4. JACKI AYER	661 269-7588	ARTSPECIAL@AOL.COM
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____

Agua Dulce Town Council		
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____

Antelope Acres Town Council		
1. Vickie Nelson	942-2198	
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____

NAME (Please Print)	PHONE	E-MAIL
---------------------	-------	--------

Green Valley Town Council

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

Juniper Hills Town Council

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

Lake Los Angeles Town Council

1. Merlene Olivarez 264-4266 77tink@sbcglobal.net
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

Lakes Town Council

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

Leona Valley Town Council

1. ROBERT WOOD
2. _____
3. _____
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NAME (Please Print) PHONE E-MAIL

Littlerock Town Council

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____

Quartz Hill Town Council

- 1. Michelle Ellis 661-722-7414 mellis_c@att.net
Can
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____

Roosevelt Rural Town Council

- 1. BARBARA FIRSICK 661-946-1323 Barbara.F@global.net
- 2. Ron Ferrell 661-946-1355 RonFerrell@runbox.com
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____

Sun Village Town Council

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____

Three Points Town Council

- 1. Larry L. Myers
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____

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AV IRWMP Public Outreach Meeting
 Three Points Town Council
 May 12, 2007
 9:30am

	NAME	TELEPHONE	EMAIL
1	<i>[Signature]</i>	661-248-6567	
2	<i>[Signature]</i>	661-724-2043	
3	K.D. KUCH	661-724-1803	
4	CHRIS WANGSGARD	661-724-7871	Kathywangsgard@aol.com
5	LOUIS I BELL	661-724-9070	
6	Susan Zehner	661-724-2043	3points@iebremountain@gmail.com
7	Tom Amotherman	661-724-1104	tpsno@verizon.net
8	IAN COSTER	661-724-1999	IRC828@aol.com
9	JANE RANDALL	661-285-1882	jrandall@water.ca.gov
10	TOM FECHENTIN	626-578-1766	off 213 362 9200 ext 219
11	Berkley Harrison	(626) 578-0024	Berkley.harrison@sbcglobal.net
12	HARVEY KUCH	661-724-1803	K.D.KUCH@VERIZON.NET
13	Mike Bremer		
14			
15			
16			
17			
18			
19			
20			

chris call
 917 4040 903 5385
 Kathy call

NAME

EMAIL

PHONE

- 1. Gland Seal
gseal@rosamondesd.com
661-256-3411
- 2. Heather Gallardy
hgallardy@dpw.lacounty.gov
626-300-3324
- 3. Priscilla Moreno
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prmoreno@dpw.lacounty.gov
626-300-3358
- 4. Norm Hicking
nhicking@lncbes.org
661-726-7600
- 5. Pat Choate

661-945-8887
- 6. Tom

942-7306
- 7. Bruce Nelson

942-2198
- 8. John Göt
GOT893@AOL.COM
728-9336
- 9. Arcie Pointer

942-8716
- 10. Pearl Ament

948-0100
- 11. Anne; Joe Stage
anneacres@aol.com
728 0270
- 12. Laura Walters
LWALTERS@CICAFD.ORG
948-3785
- 13. Ron Hawkins
ronhawkins@earthlink.net
435-2566
- 14. Vickie Nelson

942-2198
- 15. Singer Stout

9484359
- 16. Land Projects Mutual Water Co.
8810 W Ave E-8
Antelope Acres, CA 95536

AV IRWMP Public Outreach Meetings
Lake Los Angeles Town Council

May 22, 2007
7:00pm

	NAME	TELEPHONE	EMAIL
1	Harold Walden	661-264-3824	H.Walden7@aol.com
2	John Jones	661-264-3776	on Record
3	Mary MacTaggart	264-1484	maryjett@roadrunner.com
4	Jackie Guy	0509	Mhanna@techcre2e.com
5	Mary Hanna	264-4626	MARIA ANDRIDAOL.COM
6	MARIA ACOSTA	264-1702	
7	LEONARD VLUYDT	264-9174	
8	Donna Sanders	264-1539	
9	ROBERT WATTS	264-4966	77tinke@sbcglobal.net
10	Markus Olwey	264-4241	BRFA11474@SbcGlobal.net
11	Robert	264-1289	Kandv.t@sbcglobal.net
12	Kathy Ferrones	264-1319	karey@aSbcGlobal.net
13	Lori Peterson	264-2450	Pisingclouds@sbcglobal.net
14	Scott Lenzak	0138	
15	Sabin Akate		
16	Deputy Fred Hill		
17	Yvonne Makowski		
18			
19			
20			

SIGN-IN

AV IRWMP Public Outreach Meeting
 Roosevelt Town Council
 May 29, 2007
 7:030pm

	NAME	TELEPHONE	EMAIL
1	Paul Flory	946 1708	
2	Harcell	946-1387	
3	Ron Fennu	946-1355	
4	MYRLE McLENDON	946-8208	
5	Dave Howard	946-2552	
6	Bob Ruppberg	946-4130	
7	Richard Wood	946-1101	
8	JIM NYE	946-1556	
9	G. DIONNE	946 8198	
10	BARBARA STERK	946 1209	
11	JERRY STERK	946-1209	
12	Julie Kyle	946/221	
13	David Green	946-4418	
14	John Jacobson	946-2491	
15	Buene Siebelman	946-1141	
16	CATHY SIEBELMAN	''	
17	TODD LEMEN	946-1568	
18	FRED HILL	661/722-7990	
19	NORM HEKING	661-726-3600	
20			

SIGN-IN

Name

Richard L. Campbell

Ray Livingston

R. FERRELL

William B. Shaw

Cesar Garcia

ANDREW ZENNY

Mark Cadlock

Norm Hicklin

Keith Dyas

Melissa Garcia

Terry Townsend

Penny Verble

Sun Village Town Councils + Little Rock

06/25/07

Email

Rich@richcam.net

NONE

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garciac@cnkspotprint.com

akew49@kempennuvel.com

mcadlock@dpu.lacounty.gov (661) 947-7173

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661-722-7829

944 2426

272-2418

661-944-1155

661-944-9662

944-1135

(661) 947-7173

661-726-3600

(661) 277-1413

(661) 944-9662

661-339-2970

661-944-7464

June 28, 2007

Mojave Chamber of Commerce

Name

Julie Lee

Elhamfaddad

Doug Graham

~~Derek~~ ~~Guyton~~

Derek Guyton

Glendon Wilkie

Elaine Robinson

Bill Deun

Billye Deun

Annie Huss

Rhita Scott

Bill Tottor

Cathy Hansen

Mike Massee

Kiahi McKee

Nancy Gibson

Derek Guyton

Organization

Bondg Trade

Contact Info

760-384-5924

619-301-1311

XCOR

661-824-4714

XCOR

XCOR

Seniors

Seniors

M.D.W.

M.D.W.

Board of Trade

S.C.

Mojave

Co. C.

Co. C.

XCOR

XCOR

XCOR

Bruce Gains
Ruf Moem
B Alexander
Alan Burgess
Heath Benne
Larry O'Killy
Geo. A. Guff
Andy Standley

M O U D
Linton Jackson
T. U. H. D.
T. U. H. D.
M M A C
M & S. D.
M D B
Coq McCarthy

SIGN-IN

AV Water Plan Public Draft Meeting

July 10, 2007

7:00 pm

	NAME	ADDRESS	TELEPHONE	EMAIL
1	Claude Brown	AFF74/JA Edwards AFB 93524	661-277-9612	
2	Gyonne Malikowski	39554-162nd St. East Lake WA	661-264-0548	
3	LARRY SIMBOLT	457 Fantasy Drive Plmd	947-9544	
4	Clay Seal	RESID	661/256-3411	
5	Diane Car Hon	5525 W. Ave M-6 AH	661-400-8872	diane@gavar.org
6	Waymon Roy	3140 E. Ave Q-14	661-572-3378	waymon.roy@adelphia.net
7				
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SIGN-IN

AV Water Plan Public Draft Meeting

July 10, 2007

7:00 pm

	NAME	ADDRESS	TELEPHONE	EMAIL
1	Pat McGuire	1710D Sweetaire Ln, GNC, 93535	264-3357	p.mcguire15@sbglobal.net
2	Melinda Barrett	LACAPRW AFFILIATE 1 South Rossmore Blvd. Edwards AFB 93524	(626) 900-3362	mbarrett@dpw.lacounty.go
3	Warren Seidel		(661) 277-3076	warren.seidel@edwards.af.mil
4	Alisha Semchuck	37404 Sierra Hwy Palmdale 93550	(661) 267-4214	asemchuck@avpress.com
5	Erika deHollan	LACSD	562-699-7411	edehollan@lacsd.org
6	Nivos Melitos	LACSD	562-699-7411	nmelitos@lacsd.org
7	Carl Young	ATC Acton Town Council	661-342-1983	cyng@acton.com
8	Mr. Freeman			714-265-8000
9	Richard Caultins	LACSD	866-422-8474	rcaultins@lacsd.org
10				
11				
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SIGN-IN

AV Water Plan Public Draft Meeting

July 10, 2007

7:00 pm

NAME	ADDRESS	TELEPHONE	EMAIL
1 Dave Gomez	34128 Reiner DR	661-5475885	
2 Bob Large	Po Box 749 LAKE HUGHES 92532	661-724-0150	
3 TJ Kim	900 S. Firemont Ave	626-300-3329	tjkim@dpw.lacounty.gov
4 Mary Hanna	17828 Highacres Ave Palmdale 93591	661-264-0509	mhanna@techrazz.com
5 Andrew Everett	1000 HILL ST, VERTUKA, CA 93003	805 658 0607	laurencew@kenredgyak.com
6 Jim Dodson	43904 Galion Ave, Lancaster 93536	661 942 3662	jim.dodson@verizon.net
7 Gordon Phair	38260 Sierra Hwy Palmdale	661-267-5300	
8 Diane Wells	35903-42 nd SITE PALMDALE	661 285-9385	
9 Drew Mercy	848. W Lancaster Blvd #101 Lancaster 93534	661-729-6232	Andrew.Mercy@sen.ca.gov
10			
11			
12			
13			
14			
15			

SIGN-IN

AV IRWMP Public Outreach Meeting
 Littlerock Town Council Meeting
 July 12, 2007
 7:00 pm

	NAME	ORGANIZATION	TELEPHONE	EMAIL
1	Stephanie Chase	Self	944-6479	sdc Chase 123@sbglobal.net
2	DEBORAH REYNOLDS	0	0 6524	JRWD@aol.com
3	Glenn Matison	1	944-15631	
4	Robert Wagner		944-2537	wagners10@juno.com
5	Orville Farms		944-1599	
6	CF. BEACE		944-4404	
7	Pamela Hobbs	Library	944-4138	
8	Allison Gallegos		944-9093	
9	Bill Guild	SOCF	944-4447	ARTFX@ORGANAL.NET
10				
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SIGN-IN

AV IRWMP Public Outreach Meeting

July 18, 2007
7:00 p.m. - 8:30 p.m.

NAME	ORGANIZATION	TELEPHONE	EMAIL
1 JOE COSVEY	PRES. LEISURE LAKE HOA	661-723-7822	joshc204@aol.com
2 FILL DE AVAL	Mojave Desert News	661-884-8417	wdsnews@montar.ca.us
3 Don Bustillos		661 256 3839	bustilld@rpmuln.com
4 RUSSELL MCKEE		661 256 2158	338 50th st
5 Bryan Pennan	RCSA		
6 Nicole West	City of Lancaster	661 723 5893	nwest@cityoflanasterca.org
7 David Rizzo	AVEK		drizzo@gommvay.com
8 Keith Dyas	AVEK	661-277-1413	
9 DAVID TIMOK	LEISURE LAKE MKP	661 948 2626	
10 Dennis Rouing	Rosamond CSP	661-264-0747	fronvins@rosamondcsp.com
11 Paul Nguyen	USDA NRCs	661-945-2604	Paul.Nguyen@ca.usda.gov
12 Loren Diatt	Kern County Planning	661-862-8866	Loreleio@co.kern.ca.us
13 John Joyce	ROSAMOND NEWS	661 256 0149	rosamondnews@joyemedialis.com
14 Heather Gillerly	LADPW	626-300-3324	hgallardy@claw.lacounty.gov
15 Shirley Darrington		661-256-1646	Leslie@antelk.com .net

STEVE RICE
Melinda Bartlett

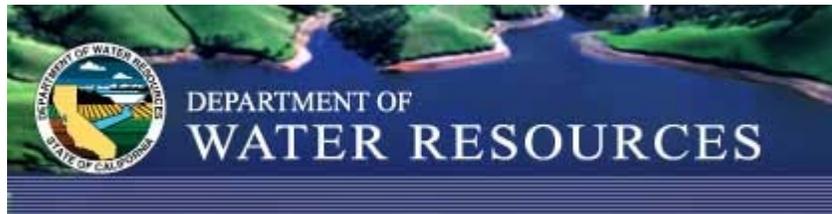
GAUAR
LACCW

661 305 0561 STEVE RICE@Cobwellbanker.com
(626) 300-3362 mbartlett@redpw.lacounty.gov

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News for Immediate Release

Paste Date

Contacts:

- [Tracie Billington](#), DWR Conjunctive Water Use, (916) 651-9226
- [Don Strickland](#), Information Officer, (916) 653-9515

DWR and State Water Board Announce Consideration of Additional Grant Awards for the Integrated Regional Water Management Grant Program

SACRAMENTO –The Department of Water Resources (DWR) and the State Water Resources Control Board (State Water Board) approved funding of seven proposals under the Proposition 50 Integrated Regional Water Management (IRWM) Implementation Grant Program.

DWR has awarded \$25 million in funding to each of the following agencies:

- Los Angeles County Flood Control District,
- Pajaro Valley Water Management Agency,
- Regional Water Authority, and
- San Luis and Delta Mendota Water Authority.

The State Water Board has awarded \$25 million in funding to each of the following agencies:

- Humboldt County (for the North Coast IRWM Program),
- Orange County, and
- Ventura County.

In addition, DWR's Director Snow and the State Water Board have directed staff to evaluate funding additional proposals from among those that competed in Step 2 of the Implementation Grants process. DWR and the State Water Board are now considering the following funding proposal:

In November 2006 DWR and the State Water Board announced draft grant funding recommendations. The agencies recommended funding 7 of the 16 IRWM Implementation Grant finalists. Those recommendations were made available for public comment and presented at a public meeting. DWR and State Water Board received both written and oral comments from various interested parties, including private citizens, local agencies, grant applicants, and advocacy groups. Comments were strongly in favor of awarding additional Proposition 50 funding to existing applicants.

DWR and the State Water Board are accepting public comments, until February 8, 2007, on the recommended additional grant funding, and will discuss the issue at upcoming IRWM scoping meetings on January 23 in Sacramento and January 31 in Alhambra.

Public comments may be emailed (preferred) to Tracie Billington at tracieb@water.ca.gov and Shahla Farahnak at sfarahnak@waterboards.ca.gov or mailed to:

Ms. Tracie Billington
Department of Water Resources
Division of Planning and Assistance
P.O. Box 942836
Sacramento, CA 94236-0001

Ms. Shahla Farahnak
State Water Resources Control Board
Division of Financial Assistance
1001 "I" Street, 16th Floor
Sacramento, CA 95814

More information on the public meetings is available at <http://www.grantsloans.water.ca.gov/grants/integregio.cfm> or by contacting Tracie Billington at (916) 651-9226.

-0-

The Department of Water Resources operates and maintains the State Water Project, provides dam safety and flood control and inspection services, assists local water districts in water management and water conservation planning, and plans for future statewide water needs.

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Contact the [DWR Public Affairs Office](#) for more information about DWR's water activities.

New water group to take shape

This story appeared in the Antelope Valley Press on Saturday, January 27, 2007.

PALMDALE - Eleven local water agencies have formed a new Regional Water Management Group and will meet with interested stakeholders, such as water agencies, businesses and private citizens on Wednesday to discuss ways to maximize water resources in the Antelope Valley and potentially bring millions of dollars to the region for infrastructure.

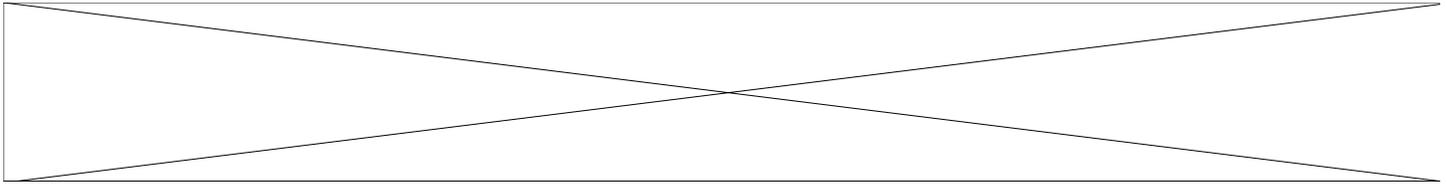
The group will prepare an Integrated Regional Water Management Plan, with input from more than 45 stakeholder agencies from federal, state, county and local governments; mutual water agencies; environmental groups; disadvantaged communities; and private businesses. The plan will provide a framework for area agencies to coordinate programs and projects to address regional water supply needs, to protect and improve water quality, to provide flood management and to protect the environment.

"Once the plan is finished, the group will be eligible to bring tens of millions of dollars in state grants to the Antelope Valley under Propositions 50, 84 and 1E," Palmdale's Director of Public Works Leon Swain said.

The group includes the Antelope Valley-East Kern Water Agency, the Antelope Valley State Water Contractors Association, Lancaster and Palmdale, Los Angeles County Sanitation Districts Nos. 14 and 20, the Littlerock Creek Irrigation District, the Los Angeles County Waterworks District No. 40, the Palmdale Water District, the Quartz Hill Water District and the Rosamond Community Services District.

The meeting will be from 9 to 11:30 a.m. at the Larry Chimbole Cultural Center, 38350 Sierra Highway.

For details, call Heather Gallardy at (626) 300-3324 or visit www.avwaterplan.org.



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Panel studies water supply
Coalition expects rise in demand
 BY JIM SKEEN, Staff Writer

Article Last Updated: 01/31/2007 09:50:38 PM PST

PALMDALE - To address a growing demand for water, a coalition of water providers and municipal and county government officials is trying to come up with a plan that will more than double supplies by the year 2035.

The Antelope Valley Integrated Regional Water Management Planning Group is working to create a plan to help guide the management of water supplies, water quality, flood management, and even environmental resource and land-use planning. The plan will also be used to help secure federal and state grants for water-related projects.

"This is one document that touches all water issues," said Ken Kirby, a water consultant hired to help guide the development of the plan.

It is projected the demand for water will reach approximately 389,000acre-feet annually by the year 2035, but the projected supply will only be about 191,000acre-feet. In a severe drought year, the shortfall could range from 249,000to 286,000acre-feet per year.

An acre-foot is enough to serve two average-size families for a year, according to the state Department of Water Resources.

"Given the deficit you are facing, you are going to have to pull out all the stops," Kirby said.

Another challenge to address

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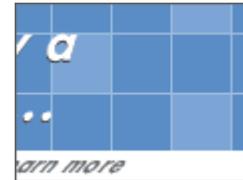
is the fact that much of the region's water supplies are imported from Northern California. The amount of water available from the State Water Project can vary on weather conditions from 65percent of the region's total in typical years to as little as 35percent in drought years.

The coalition is composed of the Antelope Valley-East Kern Water Agency, Palmdale and Quartz Hill water districts, Littlerock Creek Irrigation District, Antelope Valley State Water Contractors Association, the cities of Palmdale and Lancaster, County Sanitation Districts 14 and 20, Rosamond Community Services District and Los Angeles County Waterworks District 40.

"We believe this process is getting us together," said Adam Ariki, assistant division engineer for county waterworks districts. "We are communicating better than we have in the past."

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At a meeting Wednesday in Palmdale, the coalition began forming the initial objectives and targets for the plan. The first objective the group agreed to was to provide a reliable water supply to meet the region's needs through 2035 by providing new water supplies and reducing demand through conservation.

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Another goal is to develop a contingency plan to provide water during a disruption of state water deliveries for a period of at least six months.

And a third goal was to stabilize groundwater levels to current conditions. Groundwater overdraft, and resulting land subsidence, have been issues in the region for several years.

The group wants to complete the document this year. It will most likely require being updated every five to 10 years to account for differences between projections and what actually occurs.

"We do not know what's going to happen in 2035," Kirby said. "We are doing a prudent, plausible projection of what will happen."

james.skeen@dailynews

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WATER ISSUES - The Antelope Valley Regional Water Management Group met Wednesday to discuss water issues and solutions for the region until 2035. Ken Kirby from Kirby Consulting Group addresses the Water Management Group, an entity formed by 11 area water agencies, at the Larry Chimbole Cultural Center in Palmdale. Kirby talked about steps to form a

collaborative plan.

KELLY LACEFIELD/Valley Press

Water group makes plans to float region to 2035

This story appeared in the Antelope Valley Press on Thursday, February 1, 2007.

By ALISHA SEMCHUCK
Valley Press Staff Writer

PALMDALE - Water issues and possible solutions to keep the region afloat until 2035 highlighted a meeting Wednesday morning of the Antelope Valley Regional Water Management Group - a new entity formed by 11 area water agencies.

Water purveyors, along with representatives from the county, Lancaster and Palmdale - about 50 strong - attended the 2½-hour session at the Larry Chimbole Cultural Center, where Adam Arika, assistant division chief for the Los Angeles County Waterworks Districts, greeted the crowd. They intend to develop an Integrated Regional Water Management Plan, with input from government agencies at every level from municipal through federal in addition to environmental groups, business leaders and vulnerable communities.

"A week ago we learned the state was planning on diverting some funds," Arika said, adding those officials are considering awarding as much as \$163 million in proposed Proposition 50, Round 2 dollars to "unfunded applicants from Round 1." Prop. 50 is a competitive grant program for river parkway projects. Eligibility requires proposed projects to provide public access to waterways and also offer recreational opportunities like bike trails along rivers and streams. The projects also must include plans to restore riparian habitat to benefit wildlife and water quality.

The action being considered at the state level "will have a major impact on the Antelope Valley Region, by reducing the total funds we can compete for under

Prop. 50 from \$196.2 million to \$33.3 million," Ariki said. The change means seven water regions got funded "and the remaining nine did not, We do not like the approach the state is planning on taking."

He said a letter was sent to the State Water Board requesting them to "allow everybody to compete for funding under the spirit of the law."

"We felt we should go to Sacramento and meet with Director (Lester) Snow and tell him why (funds are) critical" for this area, Ariki said, referring to the head of the California Department of Water Resources.

He said \$27 million was "allocated for the Lahontan Region," to which the Valley belongs, from Prop. 84 money, an initiative voters passed that authorized upward of \$5.3 billion in general obligation bonds to ensure water quality, supply and flood control.

"There is a lot at stake," Ariki said. "We formed a subcommittee to spread the word."

Heather Gallardy, a civil engineer for L.A. County Waterworks, said the subcommittee intends to focus on public outreach - a coordinated effort in the Valley aimed at informing all stakeholders as well as the general public about the Integrated Regional Water Management Plan.

Ken Kirby, head of the Kirby Consulting Group Inc. in Sacramento, talked about the steps needed to form a collaborative plan.

The group must "adopt smart goals" in order for the process to work. The members also must "create a safe space for interaction, establish a clear course of action and demonstrate tangible progress."

He said their success depends on a willingness to "participate fully." They must treat others with dignity, maintain open minds that consider new ideas and "be truthful, share accurate facts" about their situation. The water situation can vary from one segment of the Valley to another based on a variety of factors.

Kirby said people should budget water the way they budget their bank accounts and finances. They have to calculate the water contained in the basin, which is closed and has no outlet to the ocean.

Valley water comes from precipitation, snow runoff, underground streams and the State Water Project. It gets consumed by municipal and industrial users plus agricultural demand. A solid water plan requires balancing supply and demand -

basic economics, he pointed out.

But a long-term plan into the year 2035 is not foolproof, Kirby. said. Forecasting the demand "is make-believe. We don't know what will happen in 2035. We don't know what's going to happen next week."

Yet, Kirby said, going 20 years out is plausible. That plan should be updated every five to 10 years with specifics. And even the best of plans won't "get us off the hook" if the water supply is interrupted for any reason, such as an earthquake or equipment malfunction.

asemchuck@avpress.com

Supervisors OK use of recycled water

By JAMES RUFUS KOREN
Valley Press Staff Writer

LOS ANGELES — Back in 2003, 4th District Supervisor Don Knabe predicted that water would become a "bigger issue than power" if the county didn't start to look at ways of using less potable water.

One way is to use recycled water, and a new agency will try to spread that method throughout the county.

At its Feb. 20 meeting, the Los Angeles County Board of

Supervisors unanimously approved several measures meant to encourage the use and development of recycled water, including the creation of an office of water recycling.

The office's goal will be to double the county's use of recycled water by 2030, which would save enough potable water to meet the needs of another 1.3 million people, according to a statement from Knabe's office.

Creating the office, which will be part of the Department of Public Works and will have a budget of \$400,000 for its first year, was one of many suggestions put forth by the report of a county recycled water task force.

Norm Hickling, an aide to 5th District Supervisor Michael D. Antonovich, said Knabe has been a leader on water recycling at the county level, but noted that Antonovich has been working to increase water recycling in the Antelope Valley.

"Supervisor Antonovich has been well out in front of this," Hickling said, mentioning Antelope Valley water summits organized by Antonovich.

One result of those summits, Hickling said, has been the drive to create an Integrated Regional Water Management plan, for the

Antelope Valley.

Water stakeholders from city governments, Edwards Air Force Base, county sanitation districts and other groups and organizations, have been meeting monthly since May to create the plan.

The plan is scheduled to be complete by December.

Hickling said the Antelope Valley is well ahead of Los Angeles County in terms of water recycling.

"Up here in the Antelope Valley, we're in the implementation process versus just coming up with an office," he said. "This plan is actually being executed."

Under Antonovich's leadership, Hickling said, the planning and building process for a recycled water "backbone" to serve Lancaster and Palmdale already is under way.

Knabe's statement described the big picture.

"With an estimated 12 million people living in Los Angeles County by 2020, serious steps are needed to increase the use and longevity of our local water supply," Knabe said in the statement.

"By adopting the recommendations of our water recycling task force, we are preparing to meet the water demands of the future with better infrastructure and increased collaboration among water agencies, businesses, the public and municipal agencies throughout the region."

Among the report's other policy recommendations were for the county to develop a recycled water master plan by June 2008, appoint the director of Public Works as the lead county officer for water recycling and to propose regulations by July 1 to require water district customers to use recycled water whenever possible.

Recycled water is not potable — that is, it cannot

be used for drinking or bathing — but can be used for irrigation and other purposes. One of the county office of water recycling's goals will be to educate businesses and the public of the possible uses for recycled water.

Hickling also said there are plans in the works to expand treatment facilities serving Lancaster and Palmdale so they can produce tertiary treated water, which has been treated three times and can be used for all agricultural and irrigation purposes. The plants currently produce secondary treated water, which can only be used for some agricultural purposes, such as irrigating tree farms.

"That would mean it could be used for golf courses, medians, lawns," Hickling said.

"We're starting planning building a backbone system so water from those treatment plants could then be distributed throughout the Antelope Valley."

The backbone would connect to treatment plants in the county's sanitation districts 14 and 20, he said.

Hickling said Antonovich and other area leaders would work with congressional representatives to try to get funding for the system "in the near future."

The cost of the backbone was estimated at \$145 million by the report from the county's recycled water task force.

The California Regional Water Quality Control Board, Lahontan Region, voted in March to permit Los Angeles County Sanitation District 14, which serves Lancaster, to expand its list of recycled water users.

Directors of the Palmdale Water District approved the proposed recycled water backbone in May.



HICKLING

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As Valley recycled water plan moves ahead

By JAMES RUFUS KOREN

Valley Press Staff Writer

LANCASTER — A proposal to build a recycled water system in the Antelope Valley took a step forward Tuesday as Los Angeles County supervisors approved funding for an environmental impact report, the document all major projects need before final planning and construction can begin.

With the supervisors' approval and \$366,000 in funding, Environmental Science Associates Inc. will take about a year to prepare an environmental impact report and environmental assessment of the North Los Angeles/Kern County Regional Recycled Water Project, said Melinda Barrett, a spokeswoman for the county Department of Water and Power's Water Resources Division.

"This contract means the project is actually moving forward," Barrett said, estimating that construction of a recycled water system in Lancaster and Palmdale would start in July 2008.

The project, part of the Integrated Regional Water Management Plan — or the Antelope Valley Water Plan — has been in the works since 2005, Barrett said.

"This is a collaborative project with a long-range vision," she said. "Recycled water can be delivered and used for irrigation throughout the region, but it needs to be a cooperative effort between a number of agencies."

Because the Antelope Valley includes several municipalities and spills over into Kern County, the Department of Public Works has been working with the Quartz Hill Water District, Lancaster and Palmdale and communities in East Kern.

"The Antelope Valley and East Kern have been part of this whole planning effort," Barrett said.

The project, which will be constructed and run by county Waterworks District 40, will be built in four phases, with the first taking tertiary-treated water from wastewater recycling plants in Lancaster and Palmdale toward potential recycled water users.

Tertiary-treated water has been treated three times and can be used for irrigation

and agricultural purposes.

The second and third phases would create recycled water storage reservoirs and build more pipelines to recycled water users.

"We have to be able to get the recycled water where it needs to go," Barrett said.

The fourth and final phase, slated for completion in 2013 or 2014, would connect the recycled water networks in Palmdale and Lancaster, creating one system.

A 2005 estimate lists the project's price tag as \$119.2 million, with 75% of that funding coming from charges to developers using the recycled water.

That would cut the price to \$29.8 million in 2005 dollars.

Norm Hickling, an aide to 5th District

County Supervisor Michael D. Antonovich, said the recycled water project's continued progress is important for Antelope Valley residents and businesses.

"The financial commitment is critical, and no project can be done without an environmental impact report," Hickling said.

"It takes a large amount of resources and manpower to come up with a plan, and it's absolutely necessary if we're going to meet the water for our agricultural needs, our business needs, for the residents we have now and for the residents who will come here in the future."

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This story appeared in the Antelope Valley Press on Tuesday, May 22, 2007.

Valley officials angling to snag water funds

By ALISHA SEMCHUCK

Valley Press Staff Writer

LANCASTER - Millions of dollars in state aid are out there for regional water projects, but whether Antelope Valley will snag a share is still unknown.

If the Valley gets rejected, it's not for lack of trying. Upward of 30 officials from the cities of Palmdale and Lancaster, as well as local water agencies, gathered Wednesday morning to hear about the second round of disbursements of money made available through Proposition 50.

Passed by California voters in November 2002, Proposition 50 authorized \$3.4 billion in general obligation bonds to fund specific water and wetland projects, including \$380 million for so-called "integrated regional water management plans."

The Antelope Valley integrated regional water management plan's list of priorities - actions to begin within two years - include recharging groundwater, flood control work and riparian habitat restoration in the Amargosa Creek near 25th Street West; the regional recycled water project's second phase and implementation of a comprehensive water conservation-efficient water use program.

Last week's meeting at the Lancaster Public Library was the 13th stakeholder meeting for the Antelope Valley integrated regional water management plan.

T.J. Kim, an associate civil engineer with Los Angeles County Waterworks District 40, told the group they have until Thursday to submit written comments to the California Department of Water Resources or the State Water Quality Control Board regarding revised guidelines for the funding.

"We recommended that the state reduce the maximum grant amount of \$25 million per region to \$15 million," Kim said. "We believe that would help disperse the funds more equitably, benefitting more regions."

State agencies earmarked \$64.5 million for the second round of water management plan funding: \$43 million for Southern California and \$21 million for Northern California.

If the state maintains the current \$25 million maximum, it's possible that only two regions would share in the Southern California allotment, officials said..

But, Kim said, "there are three regions competing" for that money - Santa Barbara, San Diego and the Antelope Valley.

That means the Antelope Valley could get nothing unless the entire Valley presents a unified front to the state agencies.

In that same vein, Melinda Barrett, public relations manager for L.A. County Waterworks Districts, said she has been concentrating on public outreach to get more support from the various factions that comprise the Antelope Valley, especially those considered somewhat disadvantaged. Representatives from the water plan's public outreach committee attended a meeting of the Association of Rural Town Councils.

"We will be going to Littlerock and Roosevelt and Juniper Hills," she said. "We will need to do some outreach within Palmdale and Lancaster. What we're finding - some of the communities are not necessarily considered disadvantaged." However, even if the \$43 million gets split between Santa Barbara and San Diego, the Antelope Valley stands a chance of qualifying for grant money because it straddles Los Angeles and Kern counties.

"We are in a unique situation," Kim said. "We can apply for both (Northern and Southern) California grants.

Water management plans move forward

This story appeared in the Antelope Valley Press on Wednesday, May 23, 2007.

By JAMES RUFUS KOREN
Valley Press Staff Writer

LOS ANGELES - The Board of Supervisors unanimously and without discussion Tuesday voted to prepare two water management plans for the Antelope Valley, process that has already been in the works for about 18 months but still needed formal board approval.

The county's Department of Public Works, Waterworks District No. 40 has been the lead county agency in the creation of an Antelope Valley Integrated Regional Water Management Plan and Groundwater Management Plan.

Although the district has already been working on the projects for more than a year, the board of supervisors had to hold a public hearing and pass a resolution saying it would work on the plans.

No members of the public commented during the board's public hearing, which was during Tuesday's board meeting.

"Part of doing an Integrated Regional Water Management Plan is there's a requirement that you get a resolution from your governing board and have a public hearing," said Melinda Barrett, a spokeswoman for the Los Angeles County Waterworks.

Other entities and agencies involved in creating the plan, including the cities of Palmdale and Lancaster, have already passed their resolutions, she said.

"We're the last entity to get ours done, but the board has know what we were doing," she said.

The Integrated Regional Water Management Plan, a draft of which was released in May 2006, will eventually combine efforts and resources from local water purveyors, cities, the county and other agencies for the purposes of working on major water projects.

In 2002, the state set aside \$380 million in grants for projects related to such plans.

"This is an extraordinary, positive step for the Antelope Valley Region," said Norm Hickling, aide to 5th District County Supervisor Michael D. Antonovich. "This plan, for

the first time, brings all the parties and stakeholders together to create two plans that have a significant impact on the future growth of the Antelope Valley."

Hickling said the draft plan should be reviewed and ready for approval by the county and other stakeholders by sometime in 2008.

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Daily News/ Wednesday, May 30, 2007

Water records to be updated

LANCASTER — Groundwater level records in the Antelope Valley will be updated and tracked under a joint agreement between Los Angeles County and the U.S. Geological Survey that county supervisors approved Tuesday.

Currently, the county waterworks district that serves part of the Antelope Valley does not have records for groundwater levels past 1995. The joint venture would update the records for the period 1996 to 2005. The USGS also will train county staff to monitor groundwater levels.

The estimated cost of the project is \$152,500.

— Daily News

Residents asked to cut water use 15%

This story appeared in the Antelope Valley Press on Thursday, May 31, 2007.

By ALISHA SEMCHUCK
Valley Press Staff Writer

It has been said that drastic times require drastic measures, but some water purveyors have begun promoting water conservation as a preventive measure rather than waiting until the Antelope Valley runs dry.

Palmdale Water District board members on May 23 voted to ask customers to voluntarily cut water use by 15%. Quartz Hill Water District's board plans to focus on conservation at the next meeting on June 13, according to that agency's general manager. And Los Angeles County Waterworks Districts officials will launch a water conservation campaign on June 21, an agency spokeswoman said.

The Palmdale Water District resolution calling for water conservation said low snow and rainfall this year, "opposition to the development and construction of water supply facilities and legal restrictions on the flow of State Water Project water to Southern California" all have contributed to shortages in the water supply.

"Groundwater supplies, which provide a supplemental source of water to the district, are limited in nature," the resolution said, adding that the district's use of groundwater could face legal challenges from the Antelope Valley basin groundwater adjudication case now before a judge.

Palmdale Water District attempted through its public information program to advise and alert consumers about "the serious nature of the water supply situation but has not experienced any significant reduction in consumer demand," the resolution states.

"We need that 15%. We really do," said Claudette Roberts, water conservation manager.

This year Palmdale Water District was allocated 60% of its entitlement from California Aqueduct, Roberts said, compared to last year when the agency could have taken the full entitlement of 21,300 acre-feet. Each acre-foot equals 326,000 gallons.

Although last year's precipitation meant water aplenty, PWD General Manager Dennis LaMoreaux said, "We couldn't use it all. We tried to carry some over to this year. We were able to use (the carryover) through January and a little into February before they ruled carryover water was gone from the system."

At this time, Palmdale Water District doesn't have the ability to take all the surplus water from its entitlement during a wet year and won't until the treatment plant improvements are completed, LaMoreaux said.

Last year, production of treated water to PWD customers totaled 27,930 acre-feet, he said, with the average single-family household consuming 1 acre-foot for the year. This year, through the end of April, production of treated water reached 7,018 acre-feet.

To satisfy all customers, the need this year is projected at 28,350 acre-feet, LaMoreaux said. But the supply is roughly 4,000 acre-feet short, he added.

"You can't make up the shortfall by pumping additional groundwater," he said.

With an outlook that bleak, the district administrators hope consumers will respond to the request for conserving the natural resource.

"We're trying to get people on the right track," Roberts said. "We don't want to go into mandatory enforcement unless our supplies continue to run low." However, she said, "if it's as dry as it has been into the next year, we'll have a more severe problem."

That means the district can demand folks cut their water use.

That's true among water purveyors large and small throughout the Valley.

Quartz Hill Water District General Manager Chad Reed said at its June 13 the Quartz Hill Water board is expected to vote on a resolution asking customers to conserve water. In addition, he said, the district is looking at conservation methods for new homes.

Reed said he didn't know if 15% also would be Quartz Hill's target figure.

"We'll leave it up to the board to establish a number," he said.

Some conservation suggestions aim at reducing indoor water use and other recommendations target the outdoors, Reed said, noting that 60% to 70% of residential water goes to landscaping.

"If we could lower that number, it would be great," Reed said. "We're looking at possibly 20% to 30% reductions for developers."

Los Angeles Waterworks District 40, which covers much of west Palmdale and parts of Lancaster, is undertaking a large-scale conservation education campaign, according to Melinda Barrett, an agency spokeswoman.

"The more we're all on the same page, the better," Barrett said.

Waterworks 40 is partnering with Home Depot in Palmdale and with the Antelope Valley Resource Conservation District "to give people tips and tools to conserve. Our focus is on the outdoor use over summer."

Barrett said the minimal target would be a 10% use reduction, "but 15% makes sense."

For the campaign, which kicks off June 21, Barrett said, "We will work with local home improvement stores to make native plants available."

PWD also has an upcoming event slated to focus on conservation - an open house from 10 a.m. to 3 p.m. on June 23 to teach folks how to reduce water use by 15%, Roberts said.

Most people water their lawns twice a day. If they shaved two minutes off the watering time on their automatic sprinklers, that would save four minutes per day of water, or 28 minutes, nearly a half-hour each week.

People also can check indoor leaks, Roberts said. Put food color in the toilet tank and check after 15 minutes to see if the water in the toilet bowl has changed color.

"Changing the toilet flapper could solve the problem. That's usually where the leak occurs. A leaky faucet is usually just a washer. These fixes (don't cost) a whole lot of money - things you could do right off the

bat."

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Water coalition sifts through priority projects

This story appeared in the Antelope Valley Press on Sunday, June 3, 2007.

By ALISHA SEMCHUCK
Valley Press Staff Writer

PALMDALE - It took more concentration than gazing into a crystal ball for answers: Members of the Antelope Valley Integrated Regional Water Management Plan coalition sorted through a list of priority projects to judge which ones stood the best chance of getting a Proposition 50 Phase 2 grant from the state.

The coalition's main goal is to ensure a reliable water supply that meets the needs of Valley residents now and in the future. So participants at the 14th stakeholder meeting Wednesday in the Palmdale Cultural Center faced the challenge of narrowing the list of 18 priority projects which included plans for water conservation, plans for recycled water, plans for flood control and riparian habitat restoration and plans for a water bank.

The group of roughly 35 participants was instructed by Ken Kirby, a consultant and the meeting facilitator, to weigh the costs of proposed projects against expected benefits. He said that's one of the standards the state measures.

Other criteria the group considered in attempting to meet Prop. 50 requirements included projects slated to get under way within two years and combined costs of projects being submitted to the state for possible funding - an amount that must not exceed \$25 million, the maximum dollars given to any single region.

Another influential factor for the state rests on the amount of matching funds a region secured for a project, Kirby said. Grant applicants must reveal their sources of funding for projects and the amount they've been guaranteed.

"Larger matches are looked on more favorably," Kirby pointed out.

"Financing is one of the tougher sections to write," in a grant application, Kirby said. "We will be required to do a fairly detailed cost-benefit analysis. Who will benefit? How will they benefit? We want to tell a credible story to those we're asking to pay for it.

"It takes work and money to put applications together. Be strategic," Kirby advised. "Prop. 50 emphasizes implementation. Planning studies don't qualify."

Participants divided into five separate brainstorming groups, each expected to make a pitch for the projects to include in the grant application.

Kirby reminded participants that they were "committing to a scope of work for this grant." That means the funds could be designated for one specific phase of a project.

"You're coming up with a strategy to put together the best package for the region," the consultant said. "This is horse trading essentially."

In one brainstorming group, Brian Dietrick, a senior engineer with the Los Angeles County Sanitation Districts, made his pitch to include projects for the Lancaster and Palmdale water reclamation plants being upgraded, and cleanup of nitrates in the groundwater in a section of east Palmdale on land owned

by Los Angeles World Airports and leased by the sanitation districts.

"We've got CEQA done," Dietrick said, referring to standards set by the California Environmental Quality Act for construction permits on specific projects. "We've got bonds issued already (for) 99% funding.

"Beneficiaries would be all the ratepayers of (Lancaster) District 14 and (Palmdale) District 20," Dietrick said. He also made a pitch for including the Regional Recycled Water Project Phase 2, which some folks refer to as the backbone system, a purple pipe that, when complete, will transport recycled water to grassy public areas like cemeteries and golf courses in the vicinity of Lancaster and Palmdale. And, he also promoted a groundwater recharge project that uses recycled water - a pilot project west of Gen. William J. Fox Airfield.

Through that project, Dietrick said, the sanitation districts will "demonstrate groundwater recharge to the community."

Meanwhile, Palmdale Water District Assistant General Manager Curtis Paxton plugged the Littlerock Dam Sediment Removal Project, pointing out the local match would be "at least 80%."

Andrew Werner, a project engineer for Western Development and Storage, a private Los Angeles firm, appealed to the crowd on behalf of his company's planned water banking project on 1,700 acres west of Rosamond, between 150th and 170th streets west, from Avenue A north.

"We have a 99% match for the project," Werner said. "We have the funds in place. If any agency wanted to partner with us, you could seek Prop. 50 grant money. We're willing to fund the whole thing, but you could break off any share you want and partner with us."

As each of the five groups read the projects they would propose for the grant, Kirby said, "We've got a lot of common recommendations. That's good."

The backbone system made it on all five lists, the consultant noted. The Upper Amargosa Creek Recharge, Flood Control & Riparian Habitat Restoration Project was on four of the five lists. The one that didn't include it "explained why. They're thinking strategically," Kirby said.

"I appreciate them thinking strategically," said Bruce Hamamoto, with the Los Angeles County Department of Public Works Watershed Management Division, "but if there's money on the table, I say, go for it."

"Water conservation in general is your best bang for the buck," said Rob Morrow, a project engineer with RMC Water and Environment, a private firm in Santa Monica.

Amid all the choices, the group did arrive at consensus. Melinda Barrett, water conservation program manager for Los Angeles County Waterworks Districts, emphasized this is a preliminary package the group agreed on and is not set in stone.

But eight of the 18 priority projects were selected, including the Upper Amargosa Creek Recharge plans; the backbone system; Littlerock Dam Sediment Removal; the Comprehensive Water Conservation/Water Use Efficiency Program; the Groundwater Recharge pilot project near Fox Airfield; and Amargosa Creek Pathways, Phase II. Upgrades of the Palmdale and Lancaster water reclamation plants also made the list, but the nitrate cleanup didn't.

Barrett said the projects identified by the group are "well-suited for Prop. 50. There may be some

fine-tuning to do as we prepare the package," she added.

When the grant application writers examine other components like the environmental documents, cost estimates and local matching funds, some adjustments could be needed, she explained.

Nonetheless, Barrett said, "It's encouraging that we were all able to agree. The decision-making was based on objectives of the plan, rather than the individual agencies' objectives."

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Groups get together to solve Valley's water woes

This story appeared in the Antelope Valley Press on Thursday, June 14, 2007.

By ALISHA SEMCHUCK
Valley Press Staff Writer

PALMDALE - Unless water purveyors and governmental entities throughout the Antelope Valley take preventive measures, the water supply will not support life in this region by 2035.

In an effort to avoid such a fate, the Antelope Valley Regional Water Management Group, a network of water agency and government representatives, reviewed a draft plan Wednesday morning meant to increase the Valley's water supply, improve water quality, protect the environment, increase open space and maintain a hardy wildlife habitat. The plan, which will be published for public viewing and comment July 2, also considers flood control issues and encourages land-use planning to ensure suitable and managed population growth in this region.

Components of the plan came together after nearly a year of input from Water Management Group members, including people from Los Angeles County Waterworks Districts, the lead agency; the county Department of Public Works; the county Sanitation Districts; Palmdale and Lancaster; and area water purveyors such as Palmdale Water District, Antelope Valley-East Kern Water Agency and Littlerock Creek Irrigation District.

The plan, which will be updated every two years, is seen as a necessary element in the pursuit of grant funds from the state and federal governments. Specifically the group is eyeing grants from Propositions 50, 84 and 1E - all water-related dollars.

"We followed a systematic approach," Ken Kirby, a consultant and meeting facilitator, told the group of 50 or so participants gathered at the Palmdale Cultural Center. "We call it steps collaboration.

"When we're done with the plan, the real work begins," Kirby said.

The draft, which won't be final until after the public has an opportunity for comment, contains 10 sections beginning with an introduction that details the background of the region, tells how the plan was developed and identifies the goals.

Before efforts began to create the plan, "individual water purveyors and users were actively studying the effects of recent accelerated development of the region and attempting to identify appropriate actions to address the growing pressure on water

services," the draft document states. "The recent acceleration of industrial and residential activity stimulated demand for both more water, and higher quality water.

"Attempts by individual agencies to meet the growing challenges were frequently criticized and the atmosphere was one of mistrust, with fierce competition among water users for limited water supplies," according to the draft document.

The document describes the Valley as 2,400 square miles of desert, bounded by the San Gabriel Mountains to the south and southwest, the Tehachapi Mountains to the northwest, and "a series of hills and buttes that generally follow the San Bernardino County Line to the east," an area defined as a closed groundwater basin, which prohibits the flow of water to outlying regions and also prevents new water from entering except via the California Aqueduct or when it rains.

Groundwater is limited because of overdrafting of the basin, meaning people in the early days pumped too much water from the ground.

A section on issues and needs in the document highlights the sources of water in the Valley, reliability concerns, the use of recycled water and challenges.

The document also includes sections on objectives, water management strategies, the evaluation of projects along with a priority list and a framework for implementation.

A list of priorities showed an Amargosa Creek recharge and channelization project, an Antelope Valley water bank and an aquifer storage and recovery project for water supply management; a 42nd Street East sewer installation, a Palmdale power project and Lancaster Water Reclamation Plant expansion for water quality management; a 45th Street East flood control basin; a Quartz Hill storm drain for flood control; and a host of other projects.

The impetus behind this project is to keep from running so low on water supply by 2035 that residents will be forced to vacate the area.

"There was really one point to the plan, that was action. This really is a 20-year overview," Kirby said.

He received some positive feedback from people who attended many, if not all, of the 15 stakeholder meetings to date.

"This process for me has been very rewarding," said Adam Arika, assistant division chief for L.A. County Waterworks Districts. He envisioned people relying on this

plan 20 or 30 years down the road. "I look at the study done by (Department of) Water Resources 30 years ago."

Randy Williams, Public Works director for Lancaster, said the interaction among the individuals to come up with a plan "has moved everyone to a closer trust of each other," compared to years past. However, he added, when they leave the meeting, they seem to go back to their individual concerns. "We need to focus on how this continues to be a pressing issue."

Neal Weisenberger, vice president of the Antelope Valley-East Kern Water Agency board of directors, said it "will take longer to develop a plan for governance," another stage in the Regional Water Management process. Although the group has worked harmoniously so far, he speculated talks "could break down at that point."

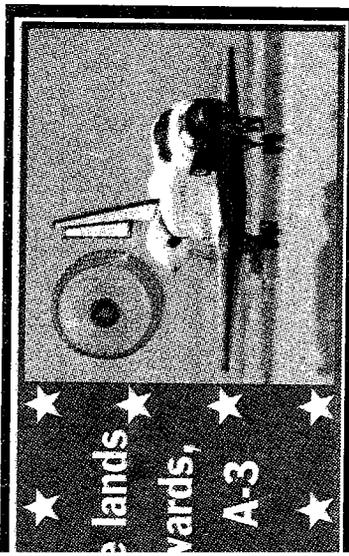
"We've been pleasantly surprised," said Brian Dietrick, a project engineer with the Sanitation Districts. "Our only concern: What happens when the money isn't there?"

Kirby said most of the comments considered the process successful, adding, "we need to move forward." The group must maintain the momentum and have the approved plan completed by the Aug. 1 deadline for Prop. 50, Phase 2 grant funds, which requires that the plan be reviewed by the public for 30 days prior to submission.

Kirby reminded the group that if adjudication over groundwater rights "isn't settled, you can't move forward with the plan. The adjudication is a key piece for your ability to implement the plan."

A public meeting is slated at 7 p.m. Tuesday, July 10 in the Joshua Room at the Palmdale Cultural Center, 38350 Sierra Highway. A second public meeting is set for 7 p.m. Wednesday, July 18 at the Rosamond Community Services District, 3179 35th Street West.

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Thursday, June 28, 2007

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CalCity EDC briefed on A.V. water plan

Ensuring water supplies

BY BILL DEEVER

CALIFORNIA CITY — A plan to coordinate management of water in the East Kern/Antelope Valley region was presented to Southeast Kern business and community leaders at last week's California City Economic Development Corporation breakfast.

Claud Seal of the Rosamond Community Service District said the plan is aimed at developing a method for managing water and ensuring that funding will be available for building facilities

to deliver water in the region. Seal said the Antelope Valley is a "closed" water basin, which means that water that comes into the basin has no outlet.

"It is either used or it evaporates," Seal said. "It's like a big bathtub." While water levels in the region were a few feet underground in the 1960s, it is now necessary to drill wells up to 300 feet deep, Seal said.

Local water supplies are supplemented by water that flows from Northern California through the California Aqueduct. That water is wholesaled to

(See PLAN on Page A-8)

(Continued From Front Page)

local water agencies by the Antelope Valley/East Kern Water Agency (AVEK), Seal explained.

Growth strains system

Burgeoning growth in the region places a strain on water supplies, and the two-year effort to develop the Antelope Valley Integrated Regional Water Management Plan (IRWMP) is aimed at helping communities meet that growth, said Seal, whose district includes one of the fastest-growing communities in the region.

Seal said that while AVEK water is an important source, it can be interrupted by shortages and other problems along its 300-plus mile route.

It is also expensive, EDC president Larry Adams said, noting that connecting water meters can cost upwards of

\$8,000.

"We have to develop our own supplies," Seal said. One way of doing that is by "banking" water underground in wet years, and withdrawing it in dry years, like this one, one of the driest on record.

Seal said AVEK and a private group are proposing water banking projects west of Rosamond. (See story this issue on the Rosamond Municipal Advisory Council meeting).

Obtaining grants from state and federal agencies for water system improvements, including a system of pipes criss-crossing the region to transport water where it is needed, is another way to ensure adequate water supplies.

While agencies "never get all the money we need," approval of the plan will make it easier for agencies to obtain grant

funds, Seal said.

Although the impetus for the plan originated in Lancaster and Palmdale, Seal emphasized that "we are all involved one way or another." He said he and others in Kern County have been working to ensure that Kern County's interests are fully represented in the planning process.

Public involvement

Nicole West of the City of Lancaster said the plan is available for public review and the California City meeting was one of several scheduled around the region (including the Mojave Chamber of Commerce meeting at noon Thursday, June 28, at the Mariah Country Inn) aimed at briefing residents about the plan.

West said copies of the plan are available at www.waterplan.org.

Water supply vital, Mojave chamber reminded

This story appeared in the Antelope Valley Press on Monday, July 2, 2007.

By ALISHA SEMCHUCK
Valley Press Staff Writer

MOJAVE - Pitchers of water and iced tea were served at last week's Mojave Chamber of Commerce lunch meeting, along with reminders of the fragile water situation facing Californians, an issue that is even more pronounced in the Antelope Valley.

"Water is very important," said Bill Deaver, a member of the chamber's board, at the Thursday meeting.

That's why the business organization invited Melinda Barrett, water conservation manager for Los Angeles County Waterworks Districts, and Claud Seal, engineer and assistant general manager for the Rosamond Community Service District, to address the problems and potential solutions throughout the Valley.

Seal and Barrett described the Antelope Valley Integrated Regional Water Management Plan and its implications, explaining the importance of a collaborative effort from all Valley communities - which could make the difference between receiving grant money from the state or not.

"We've been involved in this process going on two years now," Seal said. In that time, he's watched "a big evolution" from people who initially showed little to no interest in participating in a unified effort to secure Valleywide water to those same people "getting involved" in the cause.

Though the Valley stretches across 2,400 square miles of desert in Los Angeles and Kern counties, access to water is pretty much limited to its boundaries. Seal defined the Valley as a closed basin, where the only sources of outside water come from rain and "surface water that comes down the aqueduct."

He talked about the imbalance: a limited water supply of groundwater; the lack of reliable imported water, which became apparent with the recent 10-day shutdown of the Sacramento-San Joaquin River Delta pumps that send water into the aqueduct; water quality issues; and insufficient storage capacity.

The imbalance, Seal said, comes from too little water, "but more and more users." Given the dry year and the delta issues, suppliers believe there is enough water to "last throughout the summer," Seal said.

Water quality issues include levels of arsenic in the groundwater found in areas of the Valley, plus other contaminants illegally discarded by irresponsible businesses.

To solve the storage shortage, Seal said, the Antelope Valley-East Kern Water Agency has already purchased about 1,400 acres of farmland near Rosamond for a proposed water bank.

"We're also working with a private company, Western Development (and Storage), to start a banking program. So there are entities trying to develop sooner (rather) than later. Everybody wants water.

Everybody expects to have water. We have developers come in," Seal said, and they, too, ask for water.

Challenges largely involve funding. No one has the money needed to fix the problem. That's where state grants would help.

Currently, the stakeholders participating in the Integrated Regional Water Management Plan are vying for a grant from the state through Proposition 50, Round 2 funds. If the group succeeds with its request, the Valley can receive somewhere between \$12 million and \$25 million, he noted.

Barrett said a draft of the grant request has been prepared, and will be released for public review on July 2. Then the public will have 30 days to offer input. Public hearings will be conducted before the grant request is submitted to the state.

At this time, Barrett and Seal have been making the rounds, speaking to community groups throughout the Valley to summon support. Each community faces distinct concerns, Barrett pointed out.

At Three Points, fire protection topped the list. Without sufficient water, wildfire season poses a huge threat.

At Boron, arsenic levels give cause to worry.

Leona Valley has been "very active, looking at projects to harvest storm water," Barrett said. "Growers in that community have employed new high-tech sprinklers - weather-sensitive sprinklers - to irrigate their vineyards."

Barrett and Seal urged the Mojave folks to join the cause. They explained that the Valley stands a better chance of getting the nod of approval for a state grant as an entire region, rather than as individual entities.

As Seal put it, "We want to get as many people as possible."

asemchuck@avpress.com

Public comment being accepted on long-term water-supply plan

Daily News

Article Last Updated: 07/11/2007 09:15:40 PM PDT

Public comment is being accepted until July 31 on a draft regional water plan that addresses long-term issues of water supply and demand in the Antelope Valley.

The Antelope Valley Integrated Regional Water Management Plan was developed after a year of work by various water agencies and government groups.

"Everyone is affected by the decisions we make about water, so we encourage everyone to find out more about the plan," said Adam Ariki, a Los Angeles County Public Works Department assistant deputy director.

A community meeting to provide information on the draft plan and to gather public input will be held at 7 p.m. Wednesday at the Rosamond Community Services District office, 3179 35th St. W. A meeting was held earlier in Palmdale.

The water plan contains long-range goals of increasing water supply, improving water quality, protecting the environment, increasing open space and habitat, enhancing flood control, and encouraging land-use planning.

The plan also provides a road map to achieve those goals and specific projects designed to bridge the gap between expected water demand and supply between now and 2035. Printed and CD copies of the water plan are available at:

Supervisor Michael D. Antonovich's field office, 1113 W. Ave. M-4, Suite A, Palmdale.

Palmdale City Hall, 38300 Sierra Highway.

Lancaster City Hall, 44933 N. Fern Ave.

Rosamond Community Services District, 3179 35th St. W.

Palmdale Water District, 2029 E. Ave. Q.

Los Angeles County Waterworks District No. 40, 260 E. Ave. K-8, Lancaster.

Los Angeles County Regional Planning Department, 335A E. Ave. K-6, Lancaster.

County Sanitation Districts, 1865 W. Ave. D, Lancaster.

Littlerock Creek Irrigation District, 35141 87th St. E.

Kern County Planning Department, 2700 M St., Bakersfield.

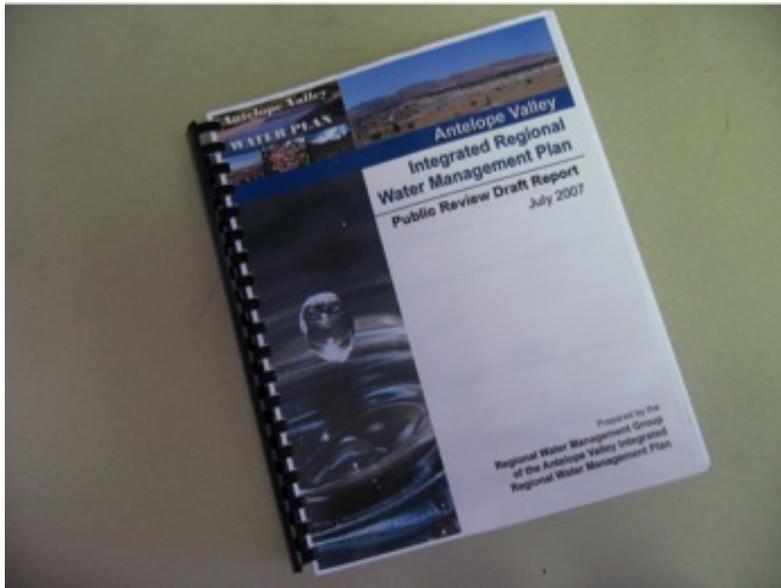
Antelope Valley Resource Conservation District, 44811 N. Date Ave., Suite G,
Lancaster.

Printed copies can also be obtained through the water plan Web site at:
avwaterplan.org or by calling (626) 300-4693.

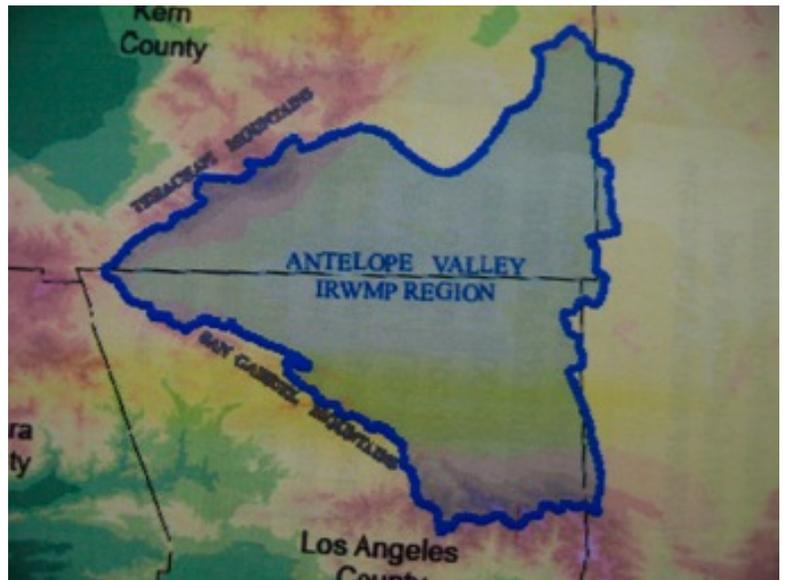
For more information, contact Melinda Barrett at Los Angeles County
Waterworks Districts at (626) 300-3362.

AV Water Plan 071807

Download Quicktime free for PC or Mac to Play Movies [Click here](#)



Claude Seal, Engineer for Rosamond Community Services District (RCSD), hosted a public draft review on July 18, 2007, at 7 p.m. of the Antelope Valley Integrate Regional Water Management Plan ([live video](#))



Melinda Barrett, Public Relations Manager for the Waterworks Division of the County of Los Angeles Department of Public Works, explained the Antelope Valley Integrated Regional Water Management Plan to approximately 30 members of the public.

Public input is wanted prior to August 1, 2007, concerning a draft plan drawn up by eleven, local, major water user/suppliers to meet projected demand through 2035. 14 public meetings

have been held so far.

Copies of the draft plan are on display for public review at RCSD headquarters on 35th Street West or online at: avwaterplan.org (live video)

But what about governing? Who gets what? Do the big neighbors override small neighbors? A resident near AVEK water banking project at 60th Street West and Gaskell is skeptical. Special Projects Division Chief of Kern County Planning Department, Lorelei Oviatt, says so far all stake holders respect large and small populations. (live video)

Keith Dyas, AVEK Director of Division 2, says IRWMP can potentially bring outside money into Antelope Valley. Mr. Seal feels local agencies have joined together over the last year to focus on a shared need for area water management. (live

video)

In fourteen local meetings Melinda says people want to be included in the process. (live video)

Story filed by John Joyce, Publisher

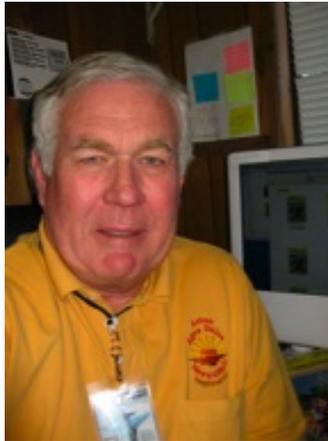
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Water plan delivers hope to this region

This story appeared in the Antelope Valley Press on Sunday, July 22, 2007.

By ALISHA SEMCHUCK
Valley Press Staff Writer

PALMDALE - Authors of the Antelope Valley Integrated Regional Water Management Plan unveiled a two-inch-thick, more than 500-page draft report for public review in Palmdale on July 10 and in Rosamond on Wednesday night.

IRWMP, as officials nicknamed the plan, is a document aimed at procuring grant funds from the state. Planners have targeted Proposition 50, Round 2 money, and they believe the Antelope Valley stands a chance of receiving a windfall of up to \$25 million from that till to use on a variety of projects needed to secure a reliable water supply for residents and businesses.

Ken Kirby, owner of Kirby Consulting Group Inc. in Davis served as facilitator at the Palmdale session, and Melinda Barrett, water conservation program manager for Los Angeles County Waterworks Districts, presented the plan at the Rosamond meeting.

"Clearly, there's a lot of information in this plan," Kirby told the 30 or so people gathered in Palmdale. "I'm guessing most of you won't read this entire thing," he said, holding up the draft report that weighs nearly five pounds. "So we provided a condensed version, the take-home version," a 15-page report that highlights key points.

He explained the plan developed after roughly one year of meetings involving collaboration among Los Angeles and Kern counties; AV water purveyors, retailers, a wholesaler and mutuals; the cities of Palmdale, Lancaster and California City; Edwards Air Force Base; unincorporated towns; the Building Industry Association-Antelope Valley chapter; and the Los Angeles County and Kern County farm bureaus.

Some of the priority projects identified by plan developers include the Upper Amargosa Creek Recharge, Flood Control and Riparian Habitat Restoration Project extending from the California Aqueduct to east of 20th Street West; an aquifer storage and recovery project, an Antelope Valley Water Bank; a Littlerock Dam sediment removal project; Phase 2 of the Antelope Valley recycled water project; and a comprehensive water conservation and efficient use program.

"Why plan?" Kirby asked the crowd.

"I focused on three things," he said, answering his own question. "People, information (and) action."

As far as the people factor, Kirby said, "This region faces significant challenges related to

water." That said, he added, information about water use and its effects "can help address the challenges." Finally, he emphasized, "action must be taken" or the problems will grow worse.

"As we set out (developing) this plan, we wanted to create a balanced approach." Kirby said the plan rests within the framework of a state-sponsored initiative - a statewide Integrated Regional Water Management Plan. "It follows the requirements of the state to qualify for grant money. We identified issues and needs. We put together a clear set of objectives. We discussed water management strategies - a list of all the things people have been able to think of to help manage the water supply."

Kirby pointed out that water is an issue in the Valley because "supplies are uncertain (and) demand is greater than supply." Furthermore, he added, "you can't take water quality for granted.

"Historically, land use planning has been done independently from water use management. You can't do that anymore." The mismatch between supply and demand must be balanced, and the projects listed in IRWMP attempt to do that.

The plan addresses how to provide water for urban use and how to provide water for agricultural use in the future. Without taking appropriate action now, Kirby said, the Valley will have half its current amount of water in 20 years, yet the population is projected to double.

"This is not a new problem," according to Jim Dodson, president of the Antelope Valley Resource Conservation District. "It's been faced in a lot of other communities. They have practices required by ordinance. Voluntary (water cutbacks) just doesn't happen."

"No one who uses water in the region can (conserve) in isolation," Kirby said. "Everyone who uses water affects everyone else. No one can afford to ignore this problem anymore. This is a generational problem. It didn't happen overnight."

Several folks at the meeting blamed the problem on rapid, continued and uncontrolled development in Palmdale and Lancaster, despite an inadequate infrastructure. "It sounds to me like people in the Valley will pay for the developers to make money," said a man named John, who declined to give his last name. He described himself as a Palmdale resident and an engineer.

Barrett said her presentation before 20 people in Rosamond was similar with people asking many of the same questions.

"They didn't talk so much about development," she said. Instead, they were concerned about being excluded.

Although they took a positive approach, Barrett said "They wanted to make sure that they

would continue to be included - to make sure it's truly a regional plan.

"They asked whether we are taking environmentally sensitive areas into consideration as well as community concerns when we plan projects." Barrett said the issue of a proposed water bank on land east of Rosamond, purchased by the Antelope Valley-East Kern Water Agency came up. That plan has faced opposition by residents in the vicinity of Avenue A and Gaskell Road.

Overall, the people who attended the meetings appeared supportive of the Water Management Plan.

"This Integrated Regional Water Plan is the first time we have a definitive and quantifiable analysis of water needs for today and into the future," said Norm Hickling, field representative for Los Angeles County 5th District Supervisor Michael D. Antonovich.

"Supervisor Antonovich commends the work all the different agencies and organizations put into forming this water management plan," Hickling said.

Kirby and Barrett reminded folks that public comments on the draft report are needed by Aug. 1. Written comments can be submitted online by visiting the Web site www.AVWaterPlan.org, then clicking on the Contact Us link. Also, letters can be mailed to the attention of Barrett at the Regional Water Management Group, care of L.A. County Department of Public Works, Waterworks Division, P.O. Box 1460, Alhambra, CA 91802-1460.

For details, call (626) 300-4693.

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Mojave Desert News

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Kern demands role in A.V. water management plan

Doesn't want to be outvoted

QUOTE: "How can they buy property without seeing an EIR?" — Rosamond resident Matthew White

BY BILL DEAVER

ROSAMOND — A proposed plan to manage dwindling water supplies in the Antelope Valley and East Kern is fine, but Kern County residents and officials don't want their views ignored, a county official and Rosamond resident said here last week. Lorelei Oviatt, a top official with the Kern County Planning Department, emphasized Kern's interest in being treated as a full partner in the plan during a meeting to brief residents on the proposed Antelope Valley "Integrated Regional Water Management Plan."

Oviatt's comments followed concerns expressed by Matthew White, who lives near 60th St. West where the Antelope Valley/East Kern Water Agency plans to develop a water banking site.

Noting that AVEK board members voted last week to buy the land before receiving a draft environmental impact report (EIR), White wanted to know how the plan would be managed.

"How can they buy property without seeing an EIR?" he asked, noting that "Nobody has told us (residents of the area near the planned water banking project) anything." Melinda Barrett, an employee of the Los Angeles County Waterworks Districts, said members of the group developing the plan will begin addressing that issue at meetings this week.

Barrett emphasized that the planning



WATER PLAN — Melinda Barrett, an employee of the Los Angeles County Waterworks Districts, hold copies of the Integrated Regional Water Management Plan proposed for East Kern and the Antelope Valley. **BILL DEAVER/Desert News**

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Carol Miller
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861-972-6044

process has been based on hearing all views and achieving consensus.

“So far we have been successful in bringing the plan to achievement,” Barrett told White and the handful of people attending the briefing in the Rosamond Community Service District board room.

“We can’t have a complete plan without governance,” she said.

Helping water agencies and companies eligible for state and federal grants and loans is a major goal of those working on the plan, Barrett emphasized.

“The state prefers to work on a regional basis,” she explained.

It is also aimed at ensuring that enough water is available to handle the one million people expected to make the region their home by 2035.

“We need to double the water supply by then,” she said.

White said he is concerned that homes are being built in the Los Angeles County part of the region and using water that may not be available.

Kern concerns

Noting that Kern County representatives have been attending the IRWMP planning meetings, Oviatt said she and other Kern officials and residents could be outvoted on issues if voting was done strictly on population.

“We don’t want to be ‘outpopulated’ by other entities,” she said. “We need to be listened to. If voting is parceled-out based on population we will never have the population to have a voice!”

Oviatt said that while Kern has been represented at meetings planning the IRWMP it has not taken an active role because the county is in litigation with Los Angeles County over the sewage sludge it dumps in Kern.

Kern County Supervisor Don Maben said he supports Oviatt’s comments and will work with her to ensure that Kern County’s rights are protected.

Barrett said the public may comment on the plan before August 1. Another public meeting will be held in October after comments have been received, and the goal is to complete the plan and send it to state officials in December.

Claud Seal, engineer and assistant manager of the Rosamond Community Service District, said “We will bring additional water to the Antelope Valley.”



Come Find Out About the AV Water Plan!

Join us for an overview of the Water Plan --ask questions and provide your comments and input.

Tuesday, July 10, 7:00 p.m.
 Larry Chimbole Cultural Center
 38350 Sierra Hwy, Palmdale

Wednesday, July 18, 7:00 p.m.
 Rosamond Community Services District
 3179 35th Street West

Call (626) 300-4693 or visit
www.AVWaterPlan.org for more information.

This press release was placed in the Antelope Valley Press on Sunday, July 8, 2007

This press release was placed in the LA Daily News on Saturday, July 7, 2007

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This press release was placed in the Mojave Desert News on Thursday, July 12, 2007

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Worldwide Web Outreach

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Antelope Valley Region Integrated Regional Water Management Plan

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August 29, 2007

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September 26, 2007

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Stakeholder Interview Video Clips



[Adam Ariki](#)
[Los Angeles County Waterworks Districts](#)



[Claud Seal](#)
[Rosamond Community Services District](#)



[Curtis Paxton](#)
[Antelope Valley State Water Contractors Association](#)



[Dennis LaMoreaux](#)
[Palmdale Water District](#)



[Gretchen Gutierrez](#)
[Antelope Valley Building Industry Association](#)



[Leon Swain](#)
[City of Palmdale](#)



[Randy Williams](#)
[City of Lancaster](#)



[Richard Caulkins](#)
[Los Angeles County Sanitation Districts](#)



[Wendy Reed](#)
[Antelope Valley Conservancy](#)

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Frequently Asked Questions

1. [What constitutes an IRWMP?](#)
2. [What is Proposition 50?](#)
3. [What types of projects are eligible for funding?](#)
4. [What is integrated planning?](#)
5. [How can a city or individual water agency be able to put together a regional plan?](#)
6. [Why should I get involved?](#)
7. [What is the Antelope Valley IRWM Planning Process Lite?](#)

What constitutes an IRWMP?

Proposition 50 states that IRWMPs should include a description of the region and participants, regional objectives and priorities, water management strategies, implementation, impacts and benefits, data management, financing, stakeholder involvement, relationship to local planning, and state and federal coordination.

What is Proposition 50?

Proposition 50 was passed by California voters in November 2002, authorizing \$3.4 billion general obligation bonds to fund a variety of specified water and wetlands projects. It set aside \$380 million for IRWMP related grants. Proposition 50 is jointly administered by the California Department of Water Resources and the State Water Resources Control Board.

What types of projects are eligible for funding?

Proposition 50 seeks to fund projects that utilize multiple strategies resulting in multiple benefits. Proposition 50 guidelines highlight improved water supply reliability, long-term attainment and maintenance of water quality standards, eliminated or reduced pollution in impaired water and sensitive habitat areas, planning and implementation of multipurpose flood control programs, and drinking water and water quality projects that serve disadvantaged communities. More importantly, having an IRWMP in place for the Antelope Valley Region would make the region more competitive for funding beyond Proposition 50. Integrated regional planning is the model for future funding in California.

What is integrated planning?

Integrated planning involves local agencies and interest groups working together to coordinate planning activities across jurisdictional boundaries. In this regional approach, individual agencies' efforts are combined in order to leverage resources and meet multiple water resource needs at the same time. For instance, water supply, water quality, and habitat projects might be combined with a flood control project in a manner that benefits a much larger area than the original jurisdiction. The result is a multi-objective approach that multiplies the benefits of any individual agency's single project.

How can a city or individual water agency be able to put together a regional plan?

The IRWM Grant Program is designed to provide funding to integrated regional efforts; therefore, individual cities or agencies that are not participating in a regional effort may not be able to compete for funding.

Why should I get involved?

Ensuring an open, transparent process is essential to developing the Antelope Valley Region IRWMP that is sustainable and implementable. Ongoing public participation at every stage of the plan development process will help ensure all the key issues are addressed and build the foundation for broad-based support of the IRWMP.

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Integrated Regional Water Management Plan

Draft Antelope Valley Water Plan Ready for Public Review and Comment!

After a year of collaborative effort, the Regional Water Management Group now has a draft plan ready for public review and comment.

You can read the document by clicking [here](#), or call us at (626)300-4693 to request a copy.

You can also pick up a printed copy or CD at one of these locations:

- ▶ Supervisor Michael D. Antonovich Field Office, 1113 W. Ave M-4, Suite A, Palmdale
- ▶ Palmdale City Hall, 38300 Sierra Highway, Palmdale
- ▶ Lancaster City Hall, 44933 N. Fern Avenue, Lancaster
- ▶ Rosamond Community Services District, 3179 35th Street West, Rosamond
- ▶ Palmdale Water District, 2029 E Avenue Q, Palmdale
- ▶ Los Angeles County Waterworks District #40, 260 East Avenue K-8, Lancaster
- ▶ County Sanitation Districts, 1865 West Avenue D, Lancaster
- ▶ Los Angeles County Regional Planning Department, 335A East Avenue K-6, Lancaster
- ▶ Kern County Planning Department, 2700 "M" Street, Bakersfield
- ▶ Littlerock Creek Irrigation District, 35141 87th St. East, Littlerock
- ▶ Antelope Valley Resource Conservation District 44811 N. Date Ave., Suite G, Lancaster

Submit your comments by clicking on Contact Us or mail to:
Regional Water Management Group, c/o Los Angeles County Department of Public Works, Waterworks Division,
Attn: Melinda Barrett, P.O. Box 1460, Alhambra, CA 91802-1460.

[SEE WHAT OUR STAKEHOLDERS HAVE TO SAY!](#)

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Comments or Questions

For general information on the planning process, please
contact TJ Kim at (626) 300-3327

OR

Contact us via this form

Your Name	<input type="text"/>
Your Email	<input type="text"/>
Organization/Role	<input type="text"/>
Subject	IRWMP Comments and Questions
Message	<input type="text"/> (2000 characters remaining)
<input type="button" value="Reset"/>	<input type="button" value="Submit"/>

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Appendix D

IRWM Plan Project List

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General Information				Project Description			Project Implementation Detail***				Project Benefits***				
Project Sponsor	Project Contact Information	Project Name	If Joint Project, Other Partners	Project Description	Project Integration	Project Source	Description	Estimated		Estimated year of Construction	New Water Supply Created (AFY)	Water Quality (Area Drained or Treated)	Public Access, Open Space, Habitat, Recreation (Acres Created/Restored)		Other
								Capital Costs	Project Status						
AV Conservancy	Wendy Reed: (tel) 661-943-9000 (fax) 661-943-3306 (email) avconservancy@yahoo.com	Antelope-Fremont Watershed Assessment and Plan		The proposed project is the coordination and preparation of the Antelope-Fremont Watershed Assessment and Plan, a regional land use plan with emphasis on the preservation and restoration of sensitive natural systems of the Antelope-Fremont Watershed. Because this assessment and plan applies a systems approach -- the CalFed Approach -- to watershed stewardship, it will enhance capacity building of storage, aquifer recharge, and runoff treatment, reducing reliance on State Water supplies and enhancing water quality. It will inform regional projects and create land management plans to satisfy trustee agencies for regional conservation lands. Therefore, this project exponentially benefits all Antelope Valley projects' watershed habitat components, maximizing capacity building, and integrating watershed stewardship in the community.	The 606 Studio analysis and plan integrates existing research, plans, and projects, identifying opportunities and barriers, coordinating them into a consensus-based regional plan, and proposing approaches to identified gaps. The resultant plan will integrate with the Antelope Valley Integrated Regional Water Management Plan and the consensus-based AV Regional Conservation Roundtable, and create habitat management plans for proposed conservation lands.	The 606 Studio of California State Polytechnic University, Pomona, has provided affordable watershed analysis and design, from a holistic perspective, to many communities here and abroad over the years. This project proposal would fund the 606 Studio to work with our regional stakeholders to coordinate a regional land use plan with emphasis on the preservation and restoration of sensitive natural systems of the Antelope-Fremont Watershed.	Antelope-Fremont Watershed (USGS 18090206), predominantly portions of Los Angeles and Kern Counties, a closed basin.	\$45K	Project implementation Autumn 2007 through May 2009				2,000 acres	A holistic, watershed-wide approach to land use planning helps to ensure that watershed, conservation, and recreational assets creation will be equitably distributed and prudently planned throughout the community.	
AVEK	Tom Barnes: (tel) 661-943-3201 (fax) 661-943-3204 (email) tbavekwa@aol.com	Water Supply Stabilization Project – Westside Project	AVSWCA	Imported water stabilization program that utilizes SWP water delivered to the Antelope Valley's eastside for groundwater recharge and supplemental supply required for the region during summer peaking demand and anticipated dry years. This project includes additional facilities necessary for the delivery of untreated water for direct recharge (perc basins) or indirect (in-lieu) recharge and for wells and pipeline for treated water conveyance.	The project can be integrated with several other types of projects including existing (or proposed) treated water facilities, recycled water recharge, or stormwater collection and reuse. Planned pipeline and recharge integration with other projects will benefit the whole of the region by supplying water for direct use or for blending as required with recycled (or storm) water recharge.		The proposed location for the first phase of the project will be in eastern Kern County, adjacent to AVEK's West Feeder pipeline, along Gaskell Street, approximately within 70th Street West and 120th Street West.	-\$200 million	Conceptual	2009	1,000+ AF				
AVEK	Tom Barnes: (tel) 661-943-3201 (fax) 661-943-3204 (email) tbavekwa@aol.com	Water Supply Stabilization Project – Eastside Project	AVSWCA	This project is similar to AVEK's Westside Project, but is meant for the eastside of the Antelope Valley.	The project can be integrated with several other types of projects including existing (or proposed) treated water facilities, recycled water recharge, or stormwater collection and reuse. Planned pipeline and recharge integration with other projects will benefit the whole of the region by supplying water for direct use or for blending as required with recycled (or storm) water recharge.		The proposed location for the first phase of the project will be in Los Angeles County, eastern portion of the antelope valley adjacent to a potential AVEK east feeder pipeline, along 60th Street East, approximately within Avenue L and Avenue N.	-\$200 million	Conceptual	2011	1,000+ AF				
City of Lancaster	Peter Zorba: (tel) 661-723-6234 (fax) 661-723-6182 (email) pzorba@cityoflanasterca.org	Groundwater Recharge Using Recycled Water (GWR-RW) Pilot Project	LA Co. DPW, AVEK, LACSD, District 14	The GWR-RW Pilot Project would assess maximization of available recycled water by utilizing this valuable source to recharge the local over-draft groundwater basin, increasing the region's overall water resources. This project would recharge a blend of recycled water from the 1 mgd MBR plant at LWRP with storm water and/or treated imported water at the City of Lancaster-proposed 100-acre storm water basin at 60th St W and Ave F. This project would recharge 50,000 AFY of blend water, with blend water consisting of 40,000 AFY of imported SWP water and 10,000 AFY of recycled water from Lancaster WRP. The baseline	This project would integrate the resources and capabilities of local municipalities, water purveyors and service providers to the benefit of the entire region and dove-tail into current groundwater banking plans, recycled water utilization plans and storm water management endeavors.	The Groundwater Recharge Feasibility Study, the City of Lancaster Recycled Water Master Plan, and the Antelope Valley Recycled Water Project Facilities Planning Report.	City of Lancaster proposed 100 acre storm water flood control basin located at 60th St W and Avenue F.	\$37M	Concept	2009	48,000 AFY				
City of Lancaster	Peter Zorba: (tel) 661-723-6234 (fax) 661-723-6182 (email) pzorba@cityoflanasterca.org	Tertiary Treated Water Conveyance & Incidental Groundwater Recharge of Amargosa Creek Avenue M to Avenue H	City of Lancaster, LACSD14, LACWWD, CDFG	Construction of a 12" lateral pipeline off the Regional Backbone at/near Avenue M conveying tertiary treated water to a point approximately one mile west and to deliver recycled water into the Amargosa Creek channel. Tertiary treated water would travel northerly within the Amargosa Creek roughly 4.7 miles creating incidental recharge enroute until collecting at Lake Lancaster (retention basin north of Ave H) where it would be available for irrigation and dust control at the Antelope Valley Fair Grounds and extended use to the west side of Lancaster and surrounding Antelope Valley.	This project envisions utilizing tertiary treated recycled water from LWRP, integrating with SanDist #14 by providing a flexible and reliable means to dispose of recycled water. Furthermore, it integrates with LA Co DPW/WW and the IRWMP through conjunctive use of Regional Backbone to recharge the over drafted regional groundwater aquifer.	The Groundwater Recharge Feasibility Study, the City of Lancaster Recycled Water Master Plan, and the Antelope Valley Recycled Water Project Facilities Planning Report.	City of Lancaster: Amargosa Creek beginning at Avenue M and traveling northerly within the channel to Avenue H.	\$100K - \$1M	Concept	2013	(100-1000 AF)			Enhanced flood control and storm water management due to utilization of storm and municipal nuisance water as blend and recharge water as well as natural effect of resulting riparian habitat as flood control and storm surge dissipation. Enhanced water quality through incidental charge to overdraft groundwater aquifer.	

General Information				Project Description			Project Implementation Detail***				Project Benefits***			
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								Capital Costs	Project Status				Other	
City of Lancaster	Peter Zorba: (tel) 661-723-6234 (fax) 661-723-6182 (email) pzorba@cityoflanasterca.org	Amargosa Creek Pathways: Phase II	City of Lancaster Planning Dept., Lancaster Public Works, Cal. Dept. Fish & Game	This project includes development of a top of bank trail or paseo along eastern side of Lake Lancaster, and construction of a foot-bridge structure crossing the lake and connecting under Hwy 14 to link to the existing trailhead at the Antelope Valley Fairgrounds. The project integrates stormwater/flood control with natural riparian habitat enhancement and preservation, open/recreational space and land use management.	This project integrates flood control, stormwater management, open space management and recreational/land use management with environmental synergy and conservation, by constructing a pathway in harmony with established riparian habitat within a flood control management basin which captures stormwater and nuisance water runoff that sustains riparian habitat. A foot-bridge would connect existing trailheads and allow for pedestrian movement to and from the AV Fairgrounds.	Amargosa Pathway, as a sub-plan of the City of Lancaster's Bikeway and Pathway plans contained the City's General Plan.	City of Lancaster: Amargosa Creek Flood control Basin north of Avenue H between 20th St W and SH 14.	\$1M - \$10M	In-Design	2009	1-100 AF		Creation of riparian habitat along Amargosa Creek	Proactive environmental management, design based on habitat enhancement, ecosystem protection and wetlands creation that utilizes storm and municipal nuisance water, a natural effect of resulting riparian habitat on flood control & storm surge dissipation, as well as water quality via natural attenuation & incidental charge to groundwater aquifer.
City of Lancaster	Peter Zorba: (tel) 661-723-6234 (fax) 661-723-6182 (email) pzorba@cityoflanasterca.org	Ecosystem & Riparian Habitat Restoration of Amargosa Creek: Avenue L to Avenue G	City of Lancaster Planning Dept., Lancaster Public Works, Cal. Dept. Fish & Game	This project establishes riparian habitat along the eastern edge of the Amargosa Creek in elongated segments and sections existing in a "Riparian Curtain" approximately extending from Ave L north to Ave G. This project requires site reconnaissance, coordination with CDFG, various bio-assessments and planting plans prior to implementation and creation. Restoration projects such as this are holistic and enhance the environment, providing physical buffers and off-sets to impacts on the overall ecosystem of ephemeral and riparian habitat associated with Amargosa Creek.	This project will integrate with other projects sited within or adjacent the Amargosa Creek to provide better land use and environmentally proactivity by establishing a riparian corridor that combines ecosystem restoration, habitat protection, acoustic and visual buffers, and wetlands creation and enhancement.	The City of Lancaster General Plan, Drainage and Basin Maintenance Planning and the Recycled Water Master Plan.	City of Lancaster: Along the east bank, berm or side of the Amargosa Creek beginning at Avenue L and continuing northerly within the channel to Avenue G.	\$1M - \$10M	In-Design	2008	100-1000 AF		Creation of riparian habitat along Amargosa Creek	Enhanced ecosystem, environmental restoration and City beautification derived from the development of a riparian corridor as an effect of resulting riparian 'curtain' of habitat and wetlands creation augmenting as flood control and storm surge dissipation.
City of Palmdale	Gordon Phair: (tel) 661-267-5310 (fax) 661-267-5322 (email) gphair@cityofpalmdale.org	Barrel Springs Detention Basin and Wetlands		Construction of a 878 AF detention in the Barrel Springs area upstream of Old Harold Road and 25th Street East on a 40 acre City owned property.	This project will provide flood control for the City of Palmdale, provide a wetland enhancement and habitat protection.	City of Palmdale Capital Improvement Plan and Master Drainage Plan.	Project is located on 25th Street East and Old Harold Road.	> \$10M	In Design				40 acres (confirm)	
City of Palmdale	Gordon Phair: (tel) 661-267-5310 (fax) 661-267-5322 (email) gphair@cityofpalmdale.org	Anaverde Detention Basin, Dam & Spillway at Pelona Vista Park		Construct Pelona Vista Dam-grading, inlet/outlet structures, spillway, and storm drain piping.	This project is a multipurpose flood control basin which has the ability to provide for wildlife habitat, conservation, and storm water capture	City of Palmdale Capital Improvement Plan and Master Drainage Plan.	Project is located along Tierra Subida between Avenue S and Rayburn Road.	> \$10M	In-Design					flood control, habitat
City of Palmdale	Gordon Phair: (tel) 661-267-5310 (fax) 661-267-5322 (email) gphair@cityofpalmdale.org	Hunt Canyon Groundwater Recharge and Flood Control Basin		Construction of detention/recharge basin, south of Pearblossom Hwy, at 57th Street East. Basin is to have a 3,000 acre-foot capacity. the basin will also be used for storing aqueduct raw water to recharge into the aquifer and to control flood waters.	The proposed project would alleviate flooding and have the potential to provide a recharge area for raw aqueduct water.	City of Palmdale's Master Plan of Drainage	Cheesboro Road, south of Pearblossom Highway, near Old Fort Tejon Road		Conceptual				300 acres (confirm)	storm water capture
City of Palmdale	Gordon Phair: (tel) 661-267-5310 (fax) 661-267-5322 (email) gphair@cityofpalmdale.org	Avenue Q and 20th Street East Basin (Q-West Basin)		Acquisition and construction of 1,612 acre-foot detention basin between Avenue P-12 and Avenue Q, from 20th St. East and 30 St. East or on LAWA's property from Ave P-8 to Ave P-12.	This project will integrate with the construction of the 45th Street East and Avenue P-8 detention basin for flood control, provide possible groundwater recharge, and the natural habitat preservation.	City of Palmdale Capital Improvement Plan and Master Drainage Plan.	Project is located between Avenue Q and Avenue P-12, between 20th Street East and 30th Street East.	\$10,000,000 to \$15,000,000 (confirm)	Conceptual				161 acres (confirm)	
City of Palmdale	Gordon Phair: (tel) 661-267-5310 (fax) 661-267-5322 (email) gphair@cityofpalmdale.org	45th Street East Flood Control Basin (Q-East Basin)		Construction of drainage basin (2,083 acre-foot) near 45th St East and Avenue P-8 on L.A. City Department of Airports property.	This project will integrate with the construction of the Avenue Q and 20th Street East detention basin for flood control, provide possible groundwater recharge, and the natural habitat preservation.	City of Palmdale Capital Improvement Plan and Master Drainage Plan.	Project is located between 45th Street East and 50th Street East and between Avenue P-8 and Avenue Q.	\$20,000,000 to \$25,000,000 (confirm)	Conceptual				208 acres (confirm)	
City of Palmdale	Gordon Phair: (tel) 661-267-5310 (fax) 661-267-5322 (email) gphair@cityofpalmdale.org	42nd Street East, Sewer Installation		Construction of sewer lines to eliminate septic tanks at homes in the vicinity of 42nd St. East.	This project would reduce groundwater pollution by eliminating septic tanks at homes in the vicinity of 42nd St. East.		42nd Street East, City of Palmdale	\$100K - \$1M	Conceptual			groundwater		
City of Palmdale	Leon Swain: (tel) 661-267-5300 (fax) 661-267-5322 (email) lswain@cityofpalmdale.org	Amargosa Creek Recharge and Channelization Project	AVSWCA would support	This project will increase the Antelope Valley's water supply, increase the amount of protected natural habitat and provide improved flood prevention within the Amargosa Creek watershed. Proposed improvements include: Expanding the size and capacity of the spreading ground of the natural recharge area; developing and preserving an ephemeral stream habitat; and channelization of the Amargosa creek (soft bottom) and providing a grade separation of 20th Street West over the Amargosa Creek.	This project will integrate with the construction of the 20th Street West bridge over the Amargosa Creek, the Channelization of Amargosa Creek between 25th Street West and 20th Street West, and the natural habitat preservation, and with existing upstream and downstream Amargosa Creek Improvements.	1) Final report - Study of Potential recharge Sites in the Antelope Valley State Water Contractors Association in September 2002; 2) City of Palmdale Capital Improvement Plan and Master Drainage Plan.	Project is within the Amargosa Creek, located between 25th Street West and 20th Street West, an ephemeral blue line creek.	\$1,000,000 to \$10,000,000	Conceptual and Preliminary Plans complete		TBD AF		15 acres open space/habitat, 20 acres flood protection (confirm)	
City of Palmdale	Tom Barnett: (tel) 949-856-2200 (fax) 949-856-2313 (email) tbarnett@inlandenergy.com	Palmdale Power Project		Construction of a 570MW Electricity Generating Facility. The Palmdale Power Project will be a hybrid design, utilizing natural gas combined cycle technology and solar thermal technology.	The Palmdale Power Project will be a customer and end user of 3,200 AF/Yr of reclaimed water.		Palmdale, CA at the southeast corner of Avenue M and Sierra Hwy	> \$10M	In-Design	2008-2010				A customer and end user of reclaimed water / A Zero Liquid Discharge facility / Involvement in reclaimed water backbone infrastructure development

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								Capital Costs	Project Status						
LACSD	Brian Dietrick: (tel) 562-699-7411 (email) dietrick@lacsds.org	Lancaster WRP Stage V		The project involves construction and design of a pump station, storage reservoirs, and other ancillary facilities to increase effluent storage capacity to 21 MGD. The project also includes land acquisition.			1865 W. Avenue D, Lancaster	\$125,366,000 (remaining cost starting 01/08)	CEQA done	2012					
LACSD	Brian Dietrick: (tel) 562-699-7411 (email) dietrick@lacsds.org	Lancaster WRP Stage VI		The project includes the design and construction of a recycled water pump station and storage reservoir, and other ancillary facilities to increase capacity from 21 MGD to 26 MGD.			1865 W. Avenue D, Lancaster	\$51,053,000 (remaining cost starting 01/08)	CEQA done	2024					
LACSD	Brian Dietrick: (tel) 562-699-7411 (email) dietrick@lacsds.org	Lancaster WRP Proposed Effluent Management Sites		This project includes land acquisition, irrigation equipment and installation, farm management plan, site development, studies and permits, soil sampling, well investigation of proposed effluent management sites.			1865 W. Avenue D, Lancaster	\$9,673,000 (remaining cost starting 01/08)	CEQA done	2008					
LACSD	Brian Dietrick: (tel) 562-699-7411 (email) dietrick@lacsds.org	Palmdale WRP Existing Effluent Management Sites		This project includes monitoring, irrigation equipment and installation, and misc capital costs associated with the existing effluent management sites.			39300 30th Street East, Palmdale	\$4,794,000 (remaining cost starting 01/08)	CEQA done	2027					
LACSD	Brian Dietrick: (tel) 562-699-7411 (email) dietrick@lacsds.org	Palmdale WRP Stage V		This project includes construction of an effluent pump station, force main, and agricultural recycled water pump station, an agricultural recycled water storage tank and reservoir, the reservoir site, monitoring wells, and design and construction of secondary/tertiary treatment facilities.			39300 30th Street East, Palmdale	\$145,830,000 (remaining cost starting 01/08)	CEQA done	2010					
LACSD	Brian Dietrick: (tel) 562-699-7411 (email) dietrick@lacsds.org	Palmdale WRP Stage VI		This project includes the design and construction for: agricultural recycled water force main, effluent pump station, storage reservoir, and treatment plant expansion.			39300 30th Street East, Palmdale	\$62,369,500 (remaining cost starting 01/08)	CEQA done	2019					
LACSD	Brian Dietrick: (tel) 562-699-7411 (email) dietrick@lacsds.org	Palmdale WRP Proposed Effluent Management Sites		Includes gw monitoring, well abandonment, and acquisition, planning, studies, permits, site development, farm management planning, and equipment for agricultural effluent sites.			39300 30th Street East, Palmdale	\$59,884,430 (remaining cost starting 01/08)	CEQA done	2021					
LACWWD40	David Rydman: (tel) 626-300-3351 (fax) 626-300-3385 (email) drydman@dpw.lacounty.gov	Aquifer Storage and Recovery Project: Injection Well Development		The project involves the construction of ten new well sites in a groundwater depression area of the Antelope Valley to improve water supply reliability. The additional wells would be available for water injection during wet years and for water extraction during dry years.	This project can be integrated with the well development project that increases our groundwater extraction capacity during the peak session.	2005 Integrated Urban Water Management Plan	The groundwater depression area as defined by the groundwater contour of 2150.	> \$10M	In-Design	2008	12,000 AFY				
LACWWD40	David Rydman: (tel) 626-300-3351 (fax) 626-300-3385 (email) drydman@dpw.lacounty.gov	Aquifer Storage and Recovery Project: Additional Storage Capacity		This project would increase the District's turnout capacity from AVEK through improvements made to existing infrastructure. Four older, smaller turnout pipelines would be replaced with larger ones to supply water to Aquifer Storage and Recovery wells.	This project would improve the efficiency of the AVEK water supply.	None	The groundwater depression area as defined by the groundwater contour of 2150.	\$500,000	Conceptual	2008					
LACWWD40	David Rydman: (tel) 626-300-3351 (fax) 626-300-3385 (email) drydman@dpw.lacounty.gov	Groundwater Banking	City of Lancaster, City of Palmdale, QHWD, RCSD, SWPCA	The project would establish a groundwater bank to include 63,500 AF extraction capacity during dry years and 170,000 AF storage capacity.	There is potential integration with Western Development groundwater banking project. This project has great potential to be integrated with recreational, open space, and flood management opportunities.	2005 Integrated Urban Water Management Plan	TBD	> \$100M	Conceptual	2007	63,500 AFY				
LACWWD40	David Rydman: (tel) 626-300-3351 (fax) 626-300-3385 (email) drydman@dpw.lacounty.gov	Implement Evapotranspiration (ET) Controller Program	City of Lancaster, City of Palmdale, PWD, AVEK. Potentially: BIA, AVWCC, and homeowner associations	Develop and implement an ET controller pilot program in the Antelope Valley that can be used as a model to a future mandatory program for new development. The pilot program will include the purchase and installation of (estimated) two weather stations in a selected residential development and replace (approximately) 300 manually adjusted irrigation controllers with weather-sensitive irrigation controllers for the District's qualified customers.			One project site has been identified in the LACWWD40, Antelope Valley service area that includes 300 residential homes or large landscape sites (parks, golf courses, schools, etc.) with high water savings potential.	\$100K-\$1M	Conceptual		(100-1000 AF savings)				

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								Capital Costs	Project Status						
LACWWD40	David Rydman: (tel) 626-300-3351 (fax) 626-300-3385 (email) drydman@dpw.lacounty.gov	Water Waste Ordinance	City of Lancaster, City of Palmdale, Los Angeles County for unincorporated areas, water suppliers, etc.	Develop a year-round conservation program as an enforceable ordinance to reduce the impacts of water demand during drought years. May include watering schedule ordinance, water waste ordinance, and landscape ordinance for new development.	City of Palmdale landscape ordinance.			X	Conceptual		(1,000 + AF)				
LACWWD40	David Rydman: (tel) 626-300-3351 (fax) 626-300-3385 (email) drydman@dpw.lacounty.gov	Water Conservation School Education Program		Develop and implement a school education program to promote water conservation awareness and encourage stewardship among school-age children (kindergarten through twelfth grade). This program is consistent with BMP No. 8, School Education Program to promote water conservation and water conservation related benefits, including working with school districts and private schools with within the District's service area to provide instructional assistance, educational materials, and classroom presentations that identify urban, agricultural, and environmental issues and conditions in the local watershed.		On March 5, 19996, the Districts became signatories to an MOU regarding Urban Water Conservation in CA administered by the CUWCC. The MOU requires implementation of 14 BMPs by December 31, 2008.		\$100K-\$1M	Conceptual		X savings				
LACWWD40	David Rydman: (tel) 626-300-3351 (fax) 626-300-3385 (email) drydman@dpw.lacounty.gov	Ultra Low Flush Toilet (ULFT) Change Out Program		The Districts is proposing an ULFT Change Out Program to distribute ULFTs to customers through one-day Saturday toilet distributions. The one-day distributions provide single-family residents with up to two free ULFTs. This proposal provides one annual one-day distribution events over a three-year duration. Each one-day event will include up to 1,500 ULFTs for District No. 40 per year. This proposal is consistent with BMP No. 14, Residential ULFT Replacement Programs to replace existing high-water-using toilets with ultra-low flush (1.6 gallons or less) toilets for residential customers.		On March 5, 19996, the Districts became signatories to an MOU regarding Urban Water Conservation in CA administered by the CUWCC. The MOU requires implementation of 14 BMPs by December 31, 2008.	LACWWD 40 Service Area	\$100K-\$1M	Conceptual		(1-100 AF)				
LACWWD40	Carolina Hernandez: (tel) 626-300-3318 (fax) 626-300-3385 (email) chernandez@dpw.lacounty.gov	Avenue M and 60th Street West Tanks		This project would include the design and construction of four 3 MGD water storage tanks.	This project would provide the necessary system pressure, if the water from AVEK was diminished or not available. Thus providing for greater water supply reliability.		The tanks would be located at the intersection of Avenue M and 60th Street West in the City of Palmdale.	> \$10M	Conceptual						
LACWWD40	Michael Ignatius: (tel) 626-300-3396 (fax) 626-300-3385 (email) mignatius@lacounty.gov	Avenue K Transmission Main, Phases I-IV		The project consists of four phases for a total of approximately 32,000 linear feed of 30" and 36" diameter steel transmission main.	The proposed transmission main will have interconnections to the existing distribution system and will increase the capacity of the water system to meet the existing domestic and fire protection requirements.		Phases I-IV will be aligned in Avenue K and consist of: 8,000 ft from 10th St. West to 5th St. East; 8,000 ft from 5th St. East to 20th St. East; 10,800 ft from 10th St. West to 30th St. West; and 5,280 ft from 20th St. East to 30th St. East; 15,800 ft from 30th St. East to 60th St. East, respectively.	> \$10M	In-Design						
LACWWD40	Dave Pedersen: (tel) 626-300-3317 (fax) 626-300-3385 (email) dpedersen@dpw.lacounty.gov	Partial Well Abandonment of Groundwater Wells for Arsenic Mitigation		This project proposed arsenic mitigation of three - five groundwater wells using a proven and cost-effective non-treatment alternative to expensive treatment methods.			Various wells locations in District 40.	\$700,000	In-Design, CEQA exempt	2008					

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LACWWD40	Dave Pedersen: (tel) 626-300-3317 (fax) 626-300-3385 (email) dpedersen@dpw.lacounty.gov	North Los Angeles/Kern County Regional Recycled Water System		This project would involve construction of a recycled water backbone system identified in the Antelope Valley Facilities Planning Study to serve recycled water to more areas of the Region. It would also involve expansion of the Lancaster and Palmdale WRPs. The initial phase will involve construction of the backbone pipeline from Lancaster WRP south, in the direction of the majority of the existing potential recycled water users. The backbone pipeline alignment for Phases 1A and 1B was chosen to coordinate with recycling water plans that the City of Lancaster is completing in the near future. Also, the backbone pipeline for the recycled water distribution system will need to begin at the WRP. Phase 2 will construct the backbone pipeline from the Palmdale WRP and provide reservoir storage and include distribution pipelines extending out from the backbone to additional large potential users. The recycled water pipeline routes in Phases 3 and 4 are designed to distribute to large potential recycled water users in areas not yet served in the service areas. The P	The recycled water backbone system project would integrate with other planned recycled water projects such as the City of Lancaster's groundwater recharge with recycled water project, and will provide the infrastructure and recycled water for the City of Palmdale's Power Plant.	Final Facilities Planning Report, Antelope Valley Recycled Water Project (Project Facilities Plan) prepared by Kennedy/Jenks Consultants		> \$10M	Design completed, CEQA initiated	2011					17,491 AFY of recycled water demand estimated for Antelope Valley service area at buildout.
LADPW	Alvin Cruz: (tel) 626-458-4330 (fax) 626-458-3534 (email) ascruz@dpw.lacounty.gov	Quartz Hill Storm Drain	City of Palmdale, City of Lancaster	The project consists of the design and construction of a RCP storm drain to provide stormwater collection and conveyance within the unincorporated Los Angeles area of Quartz Hill.	The proposed project would alleviate local flooding and have the potential to provide water conservation and improved water quality.	Antelope Valley Comprehensive Plan of Flood Control and Water Conservation, City of Palmdale Master Plan of Drainage, City of Lancaster Master Plan of Drainage.	The Quartz Hill area, located in the southwest portion of the Antelope Valley, experienced severe flooding during the 2004-05 storm season. As such, the County has proposed to construct a storm drain, including several later connections and catch basins, in Downtown Quartz Hill to eliminate nuisance runoff. The project would connect to existing and new drainage facilities, with the improvements located mainly along 50th Street, from Avenue M-8 to Avenue K-8 (Thomas Guide 4104 H3-H7).	\$6.9 million	In-Design	Construction could begin after the establishment of an assessment district and collection of sufficient funds to meet the construction costs. Construction could commence in 2008.					Flood protection of 95 acres County right-of-way, and 1,108 acres private property
Leona Valley Town Council	Robert Wood: (tel) 661-270-9745 (fax) 661-270-9745 (email) robertwood8401@sbcglobal.net	Precision Irrigation Control System		Irrigation control system using electronic sensor probes at root level. Sensors relay data to a computer which controls irrigation valves, delivering a precise amount of water and effectively eliminating over-irrigation.	This project is completely scalable and could act as a pilot project for any agricultural operation from small to large.		Agriculture operations throughout Leona Valley including cherry orchards, flower farms, and vineyards.	\$100K - \$1M	Ready for construction	2008	150 AF				
Leona Valley Town Council	Robert Wood: (tel) 661-270-9745 (fax) 661-270-9745 (email) robertwood8401@sbcglobal.net	Stormwater Harvesting		Surface collection of stormwater that is filtered and stored in cisterns and collection tanks to be used for irrigation. Through advanced filtration, this project can be expanded to create potable water for homes.	This would integrate with Leona Valley "Precision Sensor" project in regard to furthering water conservation, as well as assistance in achieving goals of any regional conservation plan.		Agriculture operations throughout Leona Valley including cherry orchards, flower farms, and vineyards. Expansion of project will include homes as well through the creation of potable harvested water.	\$100K - \$1M	Ready for construction	2008	25 AF				

General Information				Project Description			Project Implementation Detail***				Project Benefits***			
Project Sponsor	Project Contact Information	Project Name	If Joint Project, Other Partners	Project Description	Project Integration	Project Source	Description	Estimated Capital Costs	Project Status	Estimated year of Construction	New Water Supply Created (AFY)	Water Quality (Area Drained or Treated)	Public Access, Open Space, Habitat, Recreation (Acres Created/Restored)	Other
Littlerock Creek Irrigation District	Barbara Hogan: (tel) 661-944-2257 (fax) 661-944-3668 (email) bhogan@avc.edu	LCID East-Side Groundwater Recharge Project		The project is a groundwater recharge project on approximately 120 to 160 acres of Los Angeles County owned land on the east-side of the Valley at 117 and T. There are currently nonproductive County wells that could be used to recharge SWP water. LCID has wells on the property that could be used to facilitate the recharge operations.	The project would integrate with AVEK's eastside groundwater banking program.				Conceptual					
No Current Sponsor	John Goit: (tel) 661-433-4486 (email) goj893@aol.com	Amargosa Water Banking & Stormwater Retention Project	City of Palmdale?, AVSWCA would support	The Amargosa Water Banking and Storm Water Retention (Amargosa) Project involves banking water to restore the depressed water table to 250 to 335 feet below ground, thereby saving pumping costs. Additionally, the Amargosa Project may include the addition of check dams and holding basins to facilitate storm water capture and improve flood control. These sites may double as open space/recreation areas.	The Amargosa project can be integrated with several other types of projects including, but not limited to, other water banking programs, future recycled water recharge programs, water conservation programs, flood control programs, watershed management, and habitat/open space/recreation programs.	The Amargosa project is currently not described in any existing water resource plans	Located within the City of Palmdale, between Avenue M and Palmdale Blvd	\$100K - \$1M	Conceptual					Restoration of the depressed water table through water recharge to 250 to 335 feet below ground could save approximately \$450,000 annually in pumping costs.
PWD	Curtis Paxton: (tel) 661-947-4111 Ext 146 (fax) 666-947-8604 (email) cpaxton@palmdalewater.org	Littlerock Dam Sediment Removal		This project will remove up to 540,000 cubic yards of sediment that has been accumulated from runoff into Littlerock Reservoir, and up to 40,000 cubic yards on an annual basis after the initial sediment is removed. The project may include a grade control structure that will protect the identified habitat of the arroyo toad.	The estimated cost is approximately \$4 million (for removal of 540,000 cubic yards by trucking and construction of a grade control structure to protect the arroyo toad habitat). The Administrative Draft EIR/EIS has been prepared and is being reviewed by District staff. Construction could begin in Fall 2008 and construction duration would be approximately two years.		Littlerock Dam and Reservoir	\$4M	ADEIR under staff review	2008/2009	(1,000 + AF)			
PWD	Curtis Paxton: (tel) 661-947-4111 Ext 146 (fax) 666-947-8604 (email) cpaxton@palmdalewater.org	Water Conservation Demonstration Garden		This project involves the construction of a water conservation garden that will educate the public on water use efficiency practices.	This project can assist water purveyors in the Antelope Valley in meeting BMPs for water use efficiency. The District has completed preliminary design plans for this project. A business plan is being developed to identify the best ways of funding this project and preferred way of operating the garden. The Garden would be built in 5 phases, and the total cost of the 5 phases is approximately \$9 million.		2029 East Avenue Q, Palmdale	\$9M	Pre-design complete, CEQA complete (ND in 2003)	2008-2013	X savings			
PWD	Curtis Paxton: (tel) 661-947-4111 Ext 146 (fax) 666-947-8604 (email) cpaxton@palmdalewater.org	Groundwater Recharge - Recycled Water Project		This project involves groundwater recharge using recycled water from the Palmdale Water Reclamation Plant.	This project could integrate with recharge projects on the east side using SWP water. The District hired Wildermuth Environmental to perform a reconnaissance-level study on doing groundwater recharge with recycled water from the Palmdale Water Reclamation Plant. The District will receive the draft report from Wildermuth Environmental next week, and will know what some estimated costs will be at that time. There has not been any CEQA work done yet on this project.		No location has been determined yet.	> \$10M	Conceptual	2011	48,000 AFY			
PWD	Curtis Paxton: (tel) 661-947-4111 Ext 146 (fax) 666-947-8604 (email) cpaxton@palmdalewater.org	New PWD Treatment Plant		This project involves the construction of a new water treatment plant that will treat SWP water and Littlerock Reservoir water. The initial capacity of the plant will be 10 MGD.	The estimated cost is approximately \$50 million for a 10-MGD plant that would be expandable to 30-MGD. The conceptual design is currently underway and a more detailed estimate will be available at the conclusion of the conceptual design process (Summer 2007). This project was included as part of the EIR done for the 2001 Master Plan Update. Construction could begin in 2010 and last through 2012.	PWD Master Plan	47th Street East and the California Aqueduct	\$50M	EIR completed w/ 2001 Master Plan	2010-2012		(10 MGD)		
PWD	Curtis Paxton: (tel) 661-947-4111 Ext 146 (fax) 666-947-8604 (email) cpaxton@palmdalewater.org	ET-Based Controller Program		This project involves the installation of ET-based irrigation controllers for landscaped areas. The cost of this project is approximately \$135,000. There is no CEQA documentation required for this project, and the project could be implemented in 2007 and 2008.	This project can integrate with landscape ordinances enacted by the cities and county. This project can assist water purveyors in the Antelope Valley in meeting Best Management Practices for water use efficiency, and will reduce runoff from overwatering of landscaped areas.		Various	\$135K	Conceptual, no CEQA required	2007-2008	X (1,000 + AF)			

General Information				Project Description			Project Implementation Detail***				Project Benefits***			
Project Sponsor	Project Contact Information	Project Name	If Joint Project, Other Partners	Project Description	Project Integration	Project Source	Estimated		Estimated year of Construction	New Water Supply Created (AFY)	Water Quality (Area Drained or Treated)	Public Access, Open Space, Habitat, Recreation (Acres Created/Restored)		Other
							Description	Capital Costs				Project Status		
QHWD	Chad Reed: (tel) 661-943-3170 (fax) 661-943-0457 (email) creed@qhwd.org	QHWD's Partial Well Abandonment of Groundwater Wells for Arsenic Mitigation		Quartz Hill Water District is proposing "micro grouting" the region of strata that contains water bearing higher arsenic content within one of the wells owned and operated by the District. The partial well abandonment method has a proven record of success within the region, LACWWD40 has had great success on 5 wells that had similar arsenic levels. This method has also proven to be the most cost effective way of dealing with high levels of arsenic in potable water.	The project being proposed by Quartz Hill Water District would integrate with the already excepted project proposed by LACWWD40, which is titled WQ-4.		3201 West Avenue L, Lancaster CA. 93536	\$48K	In-Design	2007				This project will allow Quartz Hill Water District to resume use at this site which will allow the other pumps in the region to not have to supply as much water to meet our customers demand.
RCSD	Claud Seal: (tel) 661-256-3411 (email) cseal@qnet.com	KC & LAC Interconnection Pipeline	LACSD	Place 36" piping between RCSD and LAC at Avenue A at 20th and 60th Streets West. Place piping north and south on 20th and 60th to existing recycled water pipelines.	Will carry recycled water from/to LA County Tertiary Treatment Plant into Kern County to LA County			\$100K - \$1M						
RCSD	Claud Seal: (tel) 661-256-3411 (email) cseal@qnet.com	Place Valves and Turnouts on Reclaimed Water Pipeline	AVEK, all entities using banking water	Place various required turnouts, remove controlled valves, treatment stations, other control features to move water around.	Will provide valving and controls to direct water to various pipelines for use by RCSD, AVEK, LA County Water, etc.			\$100K - \$1M	In Design					
RCSD	Claud Seal: (tel) 661-256-3411 (email) cseal@qnet.com	Purchasing Spreading Basin Land	AVEK, all entities using banking water	Purchase water spreading basins land in West Kern County from Ave. A to Rosamond B.	Will provide land to spread water for percolation and water banking for other entities.			\$1M - \$10M						
RCSD	Claud Seal: (tel) 661-256-3411 (email) cseal@qnet.com	Deep wells to Recapture Banked Water	AVEK, all entities using banking water	Drill and equip 6 deep wells between Avenue A and Rosamond Blvd., 70th to 140th Street West.	Will provide way of capturing banked underground water when needed.			\$1M - \$10M						
RCSD	Claud Seal: (tel) 661-256-3411 (email) cseal@qnet.com	Gaskell Road Pipeline	AVEK, all entities using banking water	Place new 36" pipeline on Gaskell Road, from 60th to 140th to transport water from well fields.	Will provide way of capturing banked underground water when needed.			\$1M - \$10M	Conceptual		(100-1000 AF)			
RCSD	Claud Seal: (tel) 661-256-3411 (email) cseal@qnet.com	Tropico Park Pipeline Project	AVEK, all entities using banking water	Place 16" recycled water pipeline from Gaskell Road north to Tropico regional Park area.	Will provide way of using tertiary water to develop and water a regional park north to Tropico Hill.			\$1M - \$10M	In Design		100 - 1000 AF			
RCSD	Claud Seal: (tel) 661-256-3411 (email) cseal@qnet.com	RCSD's Wastewater Pipeline	LACSD	Place 36" piping between RCSD's WWTP and LACSD.	Would provide for a possible expansion of RCSD's recycled water services beyond the 0.5 mgd expansion in order to provide more recycled water in a quicker period of time. Bringing excess waste water from LAC would provide the inflow.			13,000,000	Conceptual					
Western Development & Storage, LLC	Andrew Werner: (tel) 323-936-9303 (fax) 323-930-9114 (email) andrewwerner@westerndev.com	Antelope Valley Water Bank		The Antelope Valley Water Bank will provide the 500,000 AF of storage in the Neenach Subbasin of the Antelope Valley Basin and the ability to recharge and recover 100,000 AF/yr. This storage can be used to regulate supplies on a seasonal and year-to-year basis by storing water when it is plentiful for later use when needed.	The project is strategically located near imported water supply wheeling infrastructure (1 mile from AVEK West Feeder and 8 miles from East Branch of the SWP California Aqueduct) providing an excellent means to store and regulate supplies.		Located in Kern County at the western side of the Antelope Valley near the intersection of Avenue A and 170th St. W.	\$10 million+	In-Design/ CEQA Complete	2007-2009	1,000+ AF		1,630 acres open space/ habitat	Project will create water supply reliability to meet the needs of approximately 100,000 EDUs assuming that each EDU requires 1.0 AF/yr. The land will remain in agricultural production (carrots, onions, wheat, barley) when not being used for surface recharge (approximately 90% of the time) and provide associated habitat.

*** The information provided in this table is taken from the Call for Project forms that were originally submitted by the project proponents. During the development of the IRWM Plan, the details on these projects with regard to cost and benefit may have been further refined, and some projects may have been integrated to form enhanced projects, as discussed in Section 7 of the IRWM Plan. This information would not be captured in this table, but is addressed in the Plan.

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Appendix E

Prioritized Project List

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Antelope Valley Integrated Regional Water Management Plan

Prioritized List of Projects

As of July 2007

This Prioritized List of Projects duplicates Table 7-2 included in Section 7.0 of the AV IRWM Plan. The purpose for its inclusion within an appendix is so that the Regional Water Management Group and greater Stakeholder group can reprioritize the project list on an as-needed basis, without having to amend the Plan itself.

Priority	Project	Responsible Entity	Project Status	Project Schedule
WATER SUPPLY GROUNDWATER RECHARGE/BANKING INFRASTRUCTURE PROJECTS				
High	Antelope Valley Water Bank	WDS	Design	2001 to 2008
	Aquifer Storage and Recovery Project - Injection Well Development	LACWWD 40	Planning	2007 to 2010
	Upper Amargosa Creek Recharge, Flood Control & Riparian Habitat Restoration Project	Palmdale, AVEK	Planning	2006 to 2010
	Water Supply Stabilization Project – Westside	AVEK/AVSWCA/ LACWWD 40	CEQA/Permitting	2007 to 2009
Medium	Aquifer Storage and Recovery Project: Additional Storage Capacity	LACWWD 40	Planning	2010 to 2013
	Lower Amargosa Creek Recharge & Flood Control Project	J.Goit / Palmdale	Planning	2010 to 2013
	Water Supply Stabilization Project – Eastside Project	AVEK	Planning	2010 to 2013
WATER INFRASTRUCTURE PROJECTS				
High	Avenue K Transmission Main, Phases I-IV	LACWWD 40	Planning	2008 to 2010
	Littlerock Dam Sediment Removal Project	PWD	Planning/Design	2004 to 2009
	Waste Water Pipeline	RCSD	Planning	2008 to 2010
Low	Avenue M and 60 th Street West Tanks	LACWWD 40	Conceptual	2013 to 2018
	Place Valves and Turnouts on Reclaimed Water Pipeline	RCSD	Conceptual	2013 to 2018
RECYCLED WATER PROJECTS				
High	Antelope Valley Recycled Water Project Phase 2	LACWWD 40/Palmdale/ LACSD	Planning	2007 to 2009
	Groundwater Recharge Using Recycled Water Project	Lancaster	Pilot Study	2006 to 2009
Medium	Groundwater Recharge – Recycled Water Project	PWD	Planning	2010 to 2013

Priority	Project	Responsible Entity	Project Status	Project Schedule
	KC & LAC Interconnection Pipeline	RCSD	Planning	2010 to 2013
	Regional Recycled Water Project Phase 3	LACWWD 40/Palmdale/LACSD	Planning	2010 to 2013
	Tertiary Treated Water Conveyance & Incidental Groundwater Recharge of Amargosa Creek Avenue M to Avenue H	Lancaster	Planning	2010 to 2013
Low	Regional Recycled Water Project Phase 4	LACWWD 40/Palmdale/LACSD	Planning	2013 to 2018
WATER CONSERVATION/WATER USE EFFICIENCY				
High	Comprehensive Water Conservation/Efficient Water Use Program	AVWCC/LACWWD/PWD	Planning	2007 to 2010
WATER QUALITY PROJECTS				
High	Lancaster WRP Stage V	LACSD	Design	2007 to 2010
	Palmdale WRP Existing Effluent Management Sites	LACSD	Design	2007 to 2010
	Palmdale WRP Stage V	LACSD	Design	2007 to 2010
	Partial Well Abandonment of Groundwater Wells for Arsenic Mitigation	LACWWD/QHWD	Design	2007 to 2010
Medium	Lancaster WRP Stage VI	LACSD	Planning	2010 to 2013
	Lancaster WRP Proposed Effluent Management Sites	LACSD	Planning	2010 to 2013
	Palmdale WRP Stage VI	LACSD	Planning	2010 to 2013
	Palmdale WRP Proposed Effluent Management Sites	LACSD	Planning	2010 to 2013
	PWD New Treatment Plant	PWD	Planning	2010 to 2013
Low	42 nd Street East, Sewer Installation	Palmdale	Conceptual	2013 to 2018
FLOOD MANAGEMENT PROJECTS				
High	Development of Coordinated Antelope Valley Flood Control Plan	Cities of Lancaster, Palmdale, LADPW, Kern County	Planning	2007 to 2009
Medium	Anaverde Detention Basin, Dam & Spillway at Pelona Vista Park	Palmdale	Planning	2010 to 2013
	Barrel Springs Detention Basin and Wetlands	Palmdale	Planning	2010 to 2013

Priority	Project	Responsible Entity	Project Status	Project Schedule
	Hunt Canyon Groundwater Recharge and Flood Control Basin	Palmdale	Planning	2010 to 2013
	Quartz Hill Storm Drain	LADPW	Planning	2010 to 2013
Low	45 th Street East Flood Control Basin (Q-East Basin)	Palmdale	Conceptual	2013 to 2018
	Avenue Q and 20 th Street East Basin (Q-West Basin)	Palmdale	Conceptual	2013 to 2018
	Storm water Harvesting	Leona Valley Town Council	Conceptual	2013 to 2018
ENVIRONMENTAL RESOURCE MANAGEMENT PROJECTS				
High	Ecosystem & Riparian Habitat Restoration of Amargosa Creek; Ave J to Ave H	Lancaster	Planning	2007 to 2008
Medium	Tropico Park Pipeline Project	RCSD	Planning	2010 to 2013
LAND USE MANAGEMENT PROJECTS				
High	Amargosa Creek Pathways Project	Lancaster	Planning	2007 to 2008
	Development of a Coordinated Land Use Management Plan	Cities of Lancaster, Palmdale, LADPW, Kern County /Antelope Valley Conservancy	Planning	2007 to 2009

Notes:

AVEK = Antelope Valley-East Kern Water Agency
AVSWCA = Antelope Valley State Water Contractors Association
AVWCC = Antelope Valley Water Conservation Coalition
LACSD = Los Angeles County Sanitation Districts
LACWWD 40 = Los Angeles County Waterworks District 40
LADPW = Los Angeles County Department of Public Works
PWD = Palmdale Water District
RCSD = Rosamond Community Services District

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Appendix F

High Priority Project Templates

- High Priority Projects Selected for Proposition 50 Round 2 Funding
- Remaining High Priority Projects

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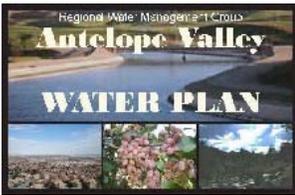
Appendix F
Antelope Valley IRWM Plan
High Priority Projects Schedule and Cost Summary

Project Title	Schedule Submitted by Project Proponent											Cost Information Submitted by Project Proponent (Millions)				
	Planning/Study		Demonstration		Design		Env.Doc./Permitting		Land Acquisition	Construction		Total Budget	Annual O&M Costs	Grant Funding	Matching Funding Provided by Proponent	
	Start	Finish	Start	Finish	Start	Finish	Start	Finish		Start	Finish					
Proposition 50 High Priority Projects																
Antelope Valley Recycled Water Project Phase 2 ((RW-1)	5/1/2007	7/1/2007			3/1/2008	1/1/2009	12/1/2007	2/1/2008			7/1/2009	6/1/2009	\$10.9		\$3.0	\$7.9
Comprehensive Water Conservation/Water Use Efficiency Program ((WC-1)	3/1/2006	7/1/2008			1/1/2008	7/1/2008	6/1/2007	7/1/2008			8/1/2008	5/1/2009	\$0.9		\$0.6	\$0.3
Groundwater Recharge Using Recycled Water (GWR-RW) Project (RW-2)													\$6.0		\$2.0	\$4.0
Lancaster Water Reclamation Plant Stage V Plant Expansion (WQ-1)							2004				2008/2009		\$74.8		\$7.5	\$67.3
Littlerock Dam Sediment Removal Project (WI-2)													\$5.5		\$1.1	\$4.4
Palmdale Water Reclamation Plant Stage V Plant Expansion (WQ-3)													\$94.6		\$7.5	\$87.1
Upper Amargosa Creek Recharge, Flood Control, & Riparian Habitat Restoration Project (WS-1)	12/1/2006	9/1/2007			9/1/2007	9/1/2008	9/1/2007	9/1/2009			10/1/2009	2/1/2010	\$13.5		\$3.0	\$10.5
Remaining High Priority Projects																
Amargosa Creek Pathways Project Phase II (LM-1)													\$1.3		\$1.2	\$1.0
Antelope Valley Regional Flood Management Plan (FM-1)													TBD		TBD	TBD
Antelope Valley Water Bank (WS-4)	12/1/2001	10/1/2006			2/1/2006	Phase 1 Q3/2007	4/1/2005	9/1/2006			Phase 1 Q3/2007	Phase 1 Q2/2008	\$170.0		\$1.7	\$168.3
Aquifer Storage and Recovery Project: Injection Well Development (WS-3)													\$10.0		\$2.5	\$7.5
Avenue K Transmission Main, Phases I-IV (WI-1)													\$10.0		\$9.0	\$1.0
Coordinated Land Use Management Plan (LM-2)	Q4/2007	Q2/2009											TBD		TBD	TBD
Ecosystem & Riparian Habitat Restoration of Amargosa Creek; Ave J to Ave H (EM-1)											2008		\$10.0		\$9.0	\$1.0
Palmdale Water Reclamation Plant Existing Effluent Management Site (WQ-2)													\$5.2		\$0.5	\$5.2
Partial Well Abandonment of Groundwater Wells for Arsenic Mitigation Project (WQ-4)	Q4/2006	Q1/2007			Q1/2007	Q1/2007							\$1.5		\$1.4	\$0.2
RCSD's Waste Water Pipeline (WI-3)													\$13.0		\$11.7	\$1.3
Water Supply Stabilization Project- Westside Project (WS-2)							2007				2009		\$230.0		\$6.8	\$1.7
												Total Budget Needed to Implement All High Priority Projects		Total Grant Funds Needed to Implement All High Priority Projects	Total Matching Funds Needed to Implement All High Priority Projects	
												\$657.2		\$68.5	\$368.6	
Highlighted projects are those currently being put forward for Proposition 50 IRWMP Round 2 Funding																

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High Priority Projects Selected for Proposition
50 Round 2 Funding

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Antelope Valley IRWM Plan High Priority Projects

Antelope Valley Recycled Water Project Phase 2

The Antelope Valley Recycled Water Project Phase 2 is one phase of the Los Angeles/Kern County Regional Recycled Water Project, and is jointly proposed by the Los Angeles County Waterworks District No. 40 (LACWWD 40), the Cities of Palmdale and Lancaster, and Los Angeles County Sanitation District (LACSD). The Los Angeles/Kern County Regional Recycled Water Project outlines a foundation of a regional recycled water system in the Antelope Valley. The proposed system would distribute recycled water throughout the service area and provide a backbone system that could accommodate minimum and maximum demands and allow significant deliveries of recycled water to direct use and potential recharge areas. The recommended plan's placement of the system components is based on an analysis of the service area demands, topography, and desired operating pressures.

Agency Name: City of Palmdale

Joint Agencies: LACSD / Palmdale Water District (PWD) / LACWWD 40

Contact Name: Leon Swain, Director of Public Works
 Agency: City of Palmdale
 Address: 38250 Sierra Highway
 City: Palmdale State: CA Zip: 93550
 Phone: 661-267-5300

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWM Plan Program Guidelines Water Management Strategies*

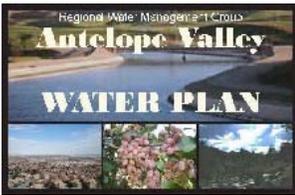
- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- Assist in meeting Delta Water Quality Objectives;



Antelope Valley IRWM Plan High Priority Projects

Antelope Valley Recycled Water Project Phase 2

- | | |
|--|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development. | <ul style="list-style-type: none"> <input type="checkbox"/> Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan; <input type="checkbox"/> Address environmental justice concerns; and <input type="checkbox"/> Assist in achieving one or more goals of the CALFED Bay-Delta Program. |
|--|---|

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

1. How Project Meets Plan Goals and Objectives

Provides water for aquifer recovery, supply for future use, protects the environment, and provides habitat protection.

2. Project Need

The proposed Phase 2 provides the recycled water connection between LACSD14 and LACSD20 Water Reclamation Plants (WRPs); provides recycled water to the existing eastside farmlands and provides the potential to bring recycled water to Littlerock Creek for recharge. Phase 2 will also provide recycled water to a power generating facility currently being designed and expected to be in operation in 2011. Approximately 20 percent of LACSD20's effluent, or 3,400 AFY will be required by the facility.

3. Scientific Basis for Project:

LACSD14 and LACSD20 are required to dispose of their tertiary treated effluent from their two WRPs, and this project will provide a portion of the transmission pipeline to do so.

4. Location

Recycled pipeline will be installed in 50th Street East, from Ave O-8 north to Ave M, then west to Sierra Highway. Pipeline will continue north to Lancaster Blvd and connect with Phase 1.

5. Integration with Other Projects

Possible integration with LACSD's Palmdale WRP Proposed Effluent Management Sites Project, and with PWD's Groundwater Recharge-Recycled Water Project.



Antelope Valley IRWM Plan
High Priority Projects

Antelope Valley Recycled Water Project Phase 2

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: Project will provide recycled water to the eastside of the Antelope Valley with the possibility of groundwater recharge within Littlerock Creek, depending on the permit, as the remaining effluent of LACSD20 could be blended with State Water Project water for groundwater recharging.
- (b) Water Quality: Increasing the level of groundwater in the upper aquifer will decrease the amount of arsenic water from the lower aquifer that will intrude into the upper aquifer.
- (c) Flood Management: NA
- (d) Environmental Resource Management: TBD
- (e) Land Use Management: TBD

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: CEQA will conclude approximately early 2008.
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: \$1.9M loan from Lahontan RWQCB State Revolving Fund (SRF) is being acquired for matching funds. (The City of Palmdale has initially assumed that SRF Funds could be applied to the local funding match and are currently researching whether the Guidelines will allow for use of funds in that manner.)
- (c) Permitting: TBD
- (d) Land Acquisition: NA
- (e) UWMP Adopted (if applicable): NA
- (f) GWMP Adopted (if applicable) or Adjudication: NA
- (g) Environmental Mitigation Needed: TBD

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation			\$0.8M
(d) Construction/Implementation			\$7.6M
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]			\$8.4M
(g) Construction Administration			\$0.5M
(h) Other (Explain):			
(i) Construction/Implementation Contingency			\$2.0M
(j) Grant Total [Sum (f) through (i) for each column]	\$7.9M	\$3.0M	\$10.9M

*Source(s) of funds for Non-State Share (Funding Match):

Agency	Estimated Contribution
City of Palmdale Power Plant	\$2.0M
PWD/ LACWWD40/LACSD	\$5.9M
Total	\$7.9M



Antelope Valley IRWM Plan
High Priority Projects

Antelope Valley Recycled Water Project Phase 2

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning	May 2007	July 2007
CEQA (if applicable)	July 2007	February 2008
Permitting (if applicable)	February 2009	February 2009
Design	March 2008	January 2009
Construction	July 2009	June 2010

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

LACWWD 40. 2006. Final Facilities Planning Report, Antelope Valley Recycled Water Project, prepared by Kennedy/Jenks Consultants. 8 August 2006.



Antelope Valley IRWM Plan
High Priority Projects

Comprehensive Water Conservation/Water Use Efficiency Program

The Comprehensive Water Conservation/Water Use Efficiency Program is sponsored by the Antelope Valley Water Conservation Coalition (AVWCC). The proposed project will develop and implement an integrated plan to reduce the demand for water in the Antelope Valley. This integrated approach will promote coordination of water conservation and water use efficiency efforts among AVWCC members and the broader public, and will focus on four elements: education, policy, infrastructure, and agricultural practices.

As part of the effort to increase the public’s awareness of the importance of landscape water use efficiency and inspire them to action, AVWCC proposes developing and implementing water conservation demonstration gardens and school- and community-based education programs. The Education Committee also seeks to identify new ideas for community public outreach and education and provide accessible and attractive outreach and education materials for various audiences.

Proposed programs to encourage conservation among large water users include supporting irrigation management through the promotion of effective design, installation and maintenance of irrigation system; providing incentives to implement conservation measures; and developing guidelines and specifications for landscape maintenance practices. Specific conservation projects include Palmdale Water District’s Weather Trak pilot project, and Water Conservation Demonstration Garden; Los Angeles County Waterworks District 40’s evapotranspiration (ET) Controller Program, Ultra Low Flush Toilet Change Out Program, Water Conservation School Education Program, and Water Waste Ordinance; and Leona Valley Town Council’s Precision Irrigation Control System.

Proposed legislative changes that will be supported by this program include, but are not limited to, updating local landscape ordinances, adopting performance standards for irrigation equipment, and promoting consistent regional standards for water conservation.

Agency Name: Antelope Valley Water Conservation Coalition (AVWCC)/LACWWD/PWD

Joint Agencies: Leona Valley Town Council, members of AVWCC include the Cities of Lancaster and Palmdale, local mutual water districts, AVEK, Antelope Valley College, Building Industry Coalition (BIA) and local developers

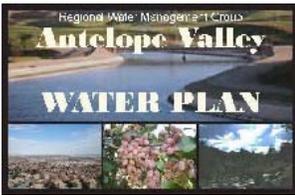
Contact Name: Neal Weisenberger
 Agency: AVWCC
 Address: 6500 W. Avenue N
 City: Palmdale State: CA Zip: 93551
 Phone: 661-609-5962

AV IRWM Objectives

- Provide reliable water supply to meet the Region’s expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.

IRWM Plan Program Guidelines Water Management Strategies*

- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water



Antelope Valley IRWM Plan High Priority Projects

Comprehensive Water Conservation/Water Use Efficiency Program

- | | |
|--|---|
| <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Maintain agricultural land use within the Region. <input type="checkbox"/> Meet growing demand for recreational space. <input checked="" type="checkbox"/> Improve integrated land use planning to support water management. | <ul style="list-style-type: none"> <input type="checkbox"/> Land use planning <input type="checkbox"/> NPS pollution control <input type="checkbox"/> Surface storage <input checked="" type="checkbox"/> Watershed planning <input type="checkbox"/> Water and wastewater treatment <input type="checkbox"/> Water transfers |
|--|---|

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities
- Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development.

AB 3030 Guidelines

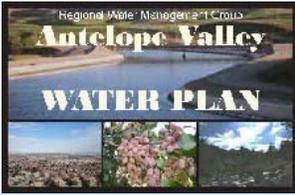
- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- Assist in meeting Delta Water Quality Objectives;
- Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan;
- Address environmental justice concerns; and
- Assist in achieving one or more goals of the CALFED Bay-Delta Program.

1. How Project Meets Plan Goals and Objectives

The project takes an integrated and holistic approach to planning for water conservation and water efficiency conservation by pursuing multiple conservation strategies.



Antelope Valley IRWM Plan High Priority Projects

Comprehensive Water Conservation/Water Use Efficiency Program

2. Project Need

Water demand is expected to increase as the Antelope Valley's population grows. At the same time, changes in the hydrologic cycle point to a less predictable future water supply and thus a greater need for communities to implement conservation and water use efficiency measures.

3. Scientific Basis for Project:

According to the United Nations, if current trends in water use continue, "two out of every three people on earth will suffer moderate to severe water shortages in little more than two decades from now." In its report, *Water 2025: Preventing Crises and Conflict in the West*, the Department of the Interior concedes that "today, in some areas of the West, existing water supplies are, or will be, inadequate to meet the water demands of people, cities, farms, and the environment even under normal water supply conditions."

4. Location

The Antelope Valley Region.

5. Integration with Other Projects

This project constitutes a comprehensive set of integrated conservation programs, many of which work towards the same goals as projects that will improve water use efficiency and those that will help ensure an adequate water supply over the long-term, such as the Aquifer Storage and Recovery Project (WS-3) and Antelope Valley Water Bank (WS-4).

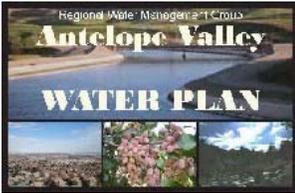
6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: 3,500 AFY by 2010 and ultimately 28,000 to 42,000 AFY.
- (b) Water Quality: TBD
- (c) Flood Management: TBD
- (d) Environmental Resource Management: TBD
- (e) Land Use Management: TBD

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: NA
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: TBD
- (c) Permitting: NA
- (d) Land Acquisition: NA
- (e) UWMP Adopted (if applicable): NA
- (f) GWMP Adopted (if applicable) or Adjudication: NA
- (g) Environmental Mitigation Needed: NA

8. Estimated Project Cost



Antelope Valley IRWM Plan
High Priority Projects

Comprehensive Water Conservation/Water Use Efficiency Program

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation			
(d) Construction/Implementation			
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]			
(g) Construction Administration			
(h) Other (Explain):			
(i) Construction/Implementation Contingency			
(j) Grant Total [Sum (f) through (i) for each column]	\$270,000	\$630,000	\$900,000

**Source(s) of funds for Non-State Share (Funding Match):*

Agency	Estimated Contribution
TBD	\$270,000
Total	\$270,000

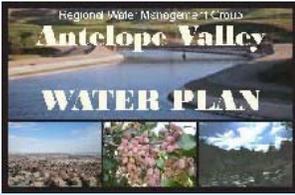
9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning	TBD	TBD
CEQA (if applicable)		
Permitting (if applicable)		
Design		
Construction		

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

NA



Antelope Valley IRWM Plan High Priority Projects

Groundwater Recharge Using Recycled Water (GWR-RW) Pilot Project

The Pilot Program was identified as the first and critical step forwards implementing a \$200M, 50,000 AFY Lancaster Area GWR-RW project in the Groundwater Recharge Feasibility Study (RMC, 2007). The proposed program would build upon the regional recycled water project (RW-1) and LACSD projects. The pilot program would recharge a blend of stormwater and recycled water from the Lancaster Water Reclamation Plant. A supplemental blend supply (local groundwater, raw imported water or treated imported water) would likely be needed. Under the current proposal, recharge would occur at the City-proposed 100-acre stormwater basin at 60th Street West and Avenue F in Lancaster, CA. Up to 2,500 AF of water would be recharged annually, including 500 AF of recycled water. The recharged water would be pumped to serve either non-potable uses or municipal and industrial uses, after an initial monitoring phase is complete.



Agency Name: City of Lancaster

Joint Agencies: Los Angeles County Sanitation District (LACSD), Palmdale Water District (PWD), LACWWD 40

Contact Name: Peter Zorba
 Agency: City of Lancaster
 Address: 44933 N Fern Street
 City: Lancaster State: CA Zip: 93594
 Phone: 661-723-6234

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWM Plan Program Guidelines Water Management Strategies*

- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers



Antelope Valley IRWM Plan High Priority Projects

Groundwater Recharge Using Recycled Water (GWR-RW) Pilot Project

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities
- Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development.

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- Assist in meeting Delta Water Quality Objectives;
- Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan;
- Address environmental justice concerns; and
- Assist in achieving one or more goals of the CALFED Bay-Delta Program.

1. How Project Meets Plan Goals and Objectives

Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.

Recycled water is a local, drought-proof water supply.

Stormwater is a local water supply that is not currently being beneficially used for water supply.

Imported water (as well as recycled water and stormwater) stored underground provides reliable supply for dry season and/or dry year(s).

Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.

Recycled water is a local supply that is locally controlled and a drought-proof water supply.



Antelope Valley IRWM Plan High Priority Projects

Groundwater Recharge Using Recycled Water (GWR-RW) Pilot Project

Stormwater is a local supply that is not currently being beneficially used for water supply.

Imported water (as well as recycled water and stormwater) stored underground provides supply under SWP disruption.

Stabilize groundwater levels at current conditions.

The project provides a new water supply that would supplement demands on groundwater and provides groundwater management opportunities.

The water that is recharged would provide increased water level benefits as well.

Provide drinking water that meets customer expectations.

The project will provide a new, reliable supply of water for extraction from the groundwater basin upon demand.

Maximize beneficial reuse of wastewater.

Groundwater recharge provides maximum beneficial use of wastewater.

Reduce negative impacts of stormwater, urban runoff, and nuisance water.

Stormwater will be captured for recharge instead of flooding.

Preserve open space and natural habitats that protect and enhance water resources and species in the region.

Recharge basins prevent urbanization of the project site(s) and, therefore, help to preserve open space. The basins have the potential to provide habitat.

Maintain agricultural land use within the Region.

Recharge basins could be operated such that agricultural activities occur during off-period and/or on rotating schedules.

Improve integrated land use planning to support water management.

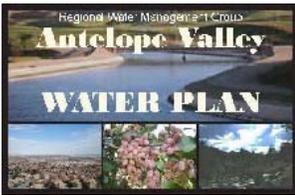
Multiple land uses: preserve open space and agricultural land while increasing the volume and reliability of Antelope Valley water supply.

2. Project Need

The primary benefit of the Program would be to enhance the feasibility of the Lancaster Area GWR Project as well as other GWR banking projects in the Valley by (1) providing water quality and reliability data that will help optimize the regional project definition, (2) demonstrating attainment of regulatory requirements, while avoiding basin-wide issues such as salt and nitrogen management and Basin Plan Amendment, (3) providing a forum for regional collaboration and public involvement, and (4) tackling institutional barriers surrounding the regional project with a reduced number of participant agencies.

The full Lancaster Area GWR Project would ultimately recharge 50,000 AFY of blend water, with blend water consisting of 40,000 AFY of storm water and/or imported SWP water and 10,000 AFY of recycled water from Lancaster WRP. The imported water would be part of WS-2 (Water Supply Stabilization Project – Westside Project). The project would extract 48,000 AFY of recharged water, on average, via a new well field and deliver the water to wholesaler/retailer distribution system(s) and private agricultural users. Water extractions would mostly occur in dry years to meet water supply shortfalls while recharge of imported water would mostly occur in wet years.

Secondary benefits of the Pilot Program include providing a pathway to early groundwater banking implementation; capturing and recharging up to 2,500 AFY of water, including 500 AFY of reliable, drought-proof, and locally controlled recycled water as well as local stormwater; providing beneficial use project for winter recycled water



Antelope Valley IRWM Plan High Priority Projects

Groundwater Recharge Using Recycled Water (GWR-RW) Pilot Project

flows and providing alternative effluent management mechanism; promoting highest beneficial use of recycled water; enhancing water supply reliability and sustainability with up to 2,500 AFY of groundwater that can be sustainably pumped; and beneficially reusing stormwater captured within the City of Lancaster.

3. Scientific Basis for Project:

Groundwater recharge via surface spreading and infiltration is the recharge of water via gravity to convey water through an unsaturated zone (between the surface and groundwater table) to an unconfined aquifer. Permeable surface soils are preferred to less permeable soils because the rate of recharge can be higher due to lower resistance to water traveling through the zone. The recharged groundwater becomes part of the aquifer system for extraction by public or private well owners.

When using recycled water, GWR via surface spreading is approved on a case-by-case basis by DHS with permits issued by a RWQCB. DHS is in the process of developing specific regulations for GWR-RW projects, and the draft GWR regulations are used as guidelines for establishing requirements for projects. The draft regulations include numeric requirements for recycled water quality, treatment process requirements, operational requirements, and treatment reliability requirements.

The Lancaster Groundwater Recharge Feasibility Study (RMC, 2007) includes specific discussion on project hydrogeology, recycled water, imported water, and stormwater. The report also includes the specific regulatory process and requirements that govern GWR-RW via surface spreading.

Additional geotechnical analysis was conducted as part of the Limited Preliminary Percolation Study for Proposed Recharge Basin (Geotek, 2006).

Finally, the Inland Empire Chino Basin Recharge Project is an example of a similar project in the region.

4. Location

See Introduction section for figure. Recharge basin is located at 60th Street West and Avenue F in Lancaster.

5. Integration with Other Projects

Integrates with Water Supply Stabilization Project – Westside Project (WS-2: project's imported water); Regional Recycled Water Project (RW-1: program would build upon project); LACSD projects (WQ-1: Lancaster WRP Stage V); and Stormwater / Drainage projects (WS-1: Upper Amargosa Creek Recharge, Flood Control & Riparian Habitat; FM-1: Coordinated Flood Management Plan; LM-2: Coordinated Land Use Management Plan).

6. Estimation/Measurement of Project Benefits (Quantify if possible)

Benefits are identified for both the Pilot Program and the Full Project since the program was identified in the Lancaster Groundwater Recharge Feasibility Study (RMC, 2007) as a critical first step in implementing the larger, regional GWR-RW project.

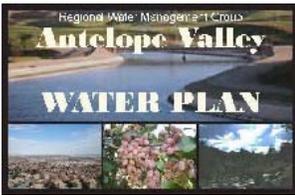
Quantities provided: *Pilot Program / Full Project*

(a) Water Supply:

- a. Recycled Water: 500 AFY / 10,000 AFY
- b. Stormwater: 500 – 2,000 AFY / 0 – 5,000 AFY
- c. Imported Water Storage: 0-2,000 AFY / 35,000-40,000 AFY

(b) Water Quality: Avoidance of wastewater disposal (see recycled water supply for quantity); Stormwater capture (see stormwater supply for quantity)

(c) Flood Management: Capture of up to 500 – 2,000 AFY of stormwater



Antelope Valley IRWM Plan
High Priority Projects

Groundwater Recharge Using Recycled Water (GWR-RW) Pilot Project

- (d) Environmental Resource Management: NA
- (e) Land Use Management: Maintains 100 acres (Pilot Program) to 1,000 acres (Full Project) of open space (recharge areas). Full project proposes to use recharge areas for agricultural activities during the dry season.

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: A draft checklist will be prepared in July 2007 and documentation is anticipated to be completed in 2008. Portions of the evaluation may be included in the Regional Recycled Water Programmatic EIR, which is currently being developed by LACWWD.
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: 65 percent; source(s) to be determined as part of the Fatal Flaw Analysis
- (c) Permitting: Appropriate permits have been identified and acquisition has commenced as part of the Fatal Flaw Analysis
- (d) Land Acquisition: Program land has been purchased by the City
- (e) UWMP Adopted (if applicable): LA County Waterworks UWMP; Yes
- (f) GWMP Adopted (if applicable) or Adjudication: GWMP to be adopted upon adoption of IRWM Plan
- (g) Environmental Mitigation Needed: To be determined upon completion of CEQA (item a)

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs	\$0.1M		\$0.1M
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation	\$0.9M		\$0.9M
(d) Construction/Implementation	\$1.5M	\$2.0M	\$3.5M
(e) Environmental Compliance/Mitigation/Enhancement	\$0.1M		\$0.1M
(f) Project Summary [Sum (a) through (e) for each column]	\$2.6M	\$2.0M	\$4.6M
(g) Construction Administration	\$0.3M		\$0.3M
(h) Other (Explain):			
(i) Construction/Implementation Contingency	\$1.1M (30%)		\$1.1M
(j) Grant Total [Sum (f) through (i) for each column]	\$4.0M	\$2.0M	\$6.0M

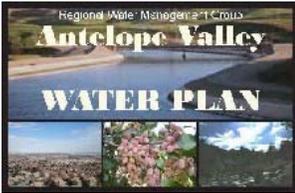
*Source(s) of funds for Non-State Share (Funding Match): To be determined as part of Fatal Flaw Analysis.

Agency	Estimated Contribution
TBD	\$4.0M
Total	\$4.0M

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning	March 2006	July 2008
CEQA (if applicable)	June 2007	July 2008
Permitting (if applicable)	June 2007	July 2008
Design	January 2008	July 2008
Construction	August 2008	May 2009

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.



Antelope Valley IRWM Plan High Priority Projects

Groundwater Recharge Using Recycled Water (GWR-RW) Pilot Project

10. Additional Studies Available

Pilot Program Fatal Flaw Analysis (to be completed by August 2007)

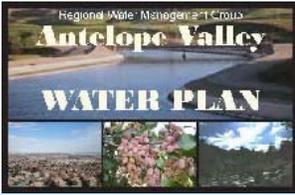
City of Lancaster. 2007. Lancaster Groundwater Recharge Feasibility Study, prepared by RMC. May.

City of Lancaster. 2006. Limited Preliminary Percolation Study for Proposed Recharge Basin, prepared by Geotek.

City of Lancaster. 2006. Lancaster Recycled Water Facilities and Operations Master Plan, prepared by RMC.

Los Angeles County Waterworks District 40. 2006. Final Facilities Planning Report, Antelope Valley Recycled Water Project, prepared by Kennedy/Jenks Consultants. August.

2002. Study of Potential Recharge Sites in the Antelope Valley, prepared by Stetson.



Antelope Valley IRWM Plan
High Priority Projects

Lancaster Water Reclamation Plant Stage V Plant Expansion

The project will upgrade the Lancaster Water Reclamation Plant from oxidation ponds to conventional activated sludge and tertiary treatment with disinfection. It will also expand the plant capacity to provide 18 mgd of tertiary-treated recycled water. The Stage V-Phase 1 project consists of: construction of a primary effluent pump station, aeration tanks, final sedimentation tanks, gravity filters, chlorine contact tanks, dissolved air flotation units, anaerobic digestion tanks, sludge dewatering facilities, chemical stations, and associated pumping facilities; and construction and modification of miscellaneous buildings and support facilities. The new conventional activated sludge secondary treatment facilities will be designed for a nitrification/denitrification mode of operation to maximize potential reuse opportunities for recycled water. The project is part of the Lancaster Water Reclamation Plant 2020 Facilities Plan and Environmental Impact Report.

Agency Name: Los Angeles County Sanitation District (LACSD)

Joint Agencies: None

Contact Name: Brian Dietrick
 Agency: LACSD
 Address: 1955 Workman Mill Road
 City: Whittier State: CA Zip: 90601
 Phone: 562-908-4288

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance

IRWM Plan Program Guidelines Water Management Strategies*

- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;



Antelope Valley IRWM Plan High Priority Projects

Lancaster Water Reclamation Plant Stage V Plant Expansion

- | | |
|---|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> Include safe drinking water and water quality projects that serve disadvantaged communities <input checked="" type="checkbox"/> Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development. | <ul style="list-style-type: none"> <input type="checkbox"/> Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan; <input type="checkbox"/> Assist in meeting Delta Water Quality Objectives; <input checked="" type="checkbox"/> Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan; <input checked="" type="checkbox"/> Address environmental justice concerns; and <input type="checkbox"/> Assist in achieving one or more goals of the CALFED Bay-Delta Program. |
|---|--|

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

1. How Project Meets Plan Goals and Objectives

By upgrading and expanding the Lancaster Water Reclamation Plant's treatment facilities, this projects works to provide a reliable water supply, maximize beneficial reuse of wastewater, protect the aquifer and natural streams from contamination, and accomplish other IRWM goals important to the Region.

2. Project Need

This project augments water supply by providing recycled water in lieu of potable for landscape irrigation, dust control, construction, and industrial process water.

3. Scientific Basis for Project:

Los Angeles Sanitation District (LACSD). June 2004. Lancaster Water Reclamation Plant 2020 Facilities Plan and EIR.

4. Location

1865 West Avenue D, Lancaster, CA 93534

5. Integration with Other Projects

This project integrates with the range of water banking, groundwater recharge, habitat preservation and recreational space projects proposed in the IRWM Plan by supplying tertiary-treated recycled water.

6. Estimation/Measurement of Project Benefits (Quantify if possible)

(a) Water Supply: 21 MGD recycled water



Antelope Valley IRWM Plan
High Priority Projects

Lancaster Water Reclamation Plant Stage V Plant Expansion

- (b) Water Quality: Tertiary treatment standards per Title 22
- (c) Flood Management: NA
- (d) Environmental Resource Management: Maintenance of Piute Ponds (400 acre wetland), Impoundment Areas A, B, and C (90 acre wetland).
- (e) Land Use Management: NA

7. Readiness to Proceed/Eligibility

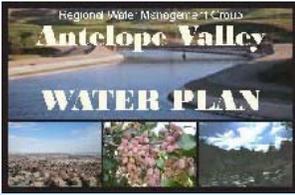
- (a) CEQA Status: LWRP 2020 Facilities Plan and EIR certified in June 2004.
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: District 14 issued revenue bonds in the amount of \$182,915,000 on October 20, 2005; SRF loan commitment of \$95,000,000 expected in May 2007; rate increases began fiscal year 2004-05 and will continue through fiscal year 2010-11 to cover increased operation and maintenance and debt service expenses.
- (c) Permitting: Master permit issued to District for reuse at Division Street Corridor Recycled Water Project; September 14, 2006 – WDRs/WRRs issued to District for AVTTP & MBR with reuse at Ag Site No. 1; November 8, 2006 – WDRs/WRRs issued to District for operation of four open storage reservoirs; March 14, 2007 – Revised WDRs/WRRs issued to District for AVTTP, MBR, & Stage V upgrade & expansion with reuse at the Eastern Ag Site.
- (d) Land Acquisition: In progress.
- (e) UWMP Adopted (if applicable): Yes, 2005 Antelope Valley Integrated Urban Water Management Plan.
- (f) GWMP Adopted (if applicable) or Adjudication: NA
- (g) Environmental Mitigation Needed: Purchase of 0.12 acres of mitigation wetlands.

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation	\$368,000	\$32,000	\$400,000
(d) Construction/Implementation	\$85.93M	\$7.47M	\$93.4M
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]	\$86.3M	\$7.5M	\$93.8M
(g) Construction Administration			
(h) Other (Explain):			
(i) Construction/Implementation Contingency			
(j) Grant Total [Sum (f) through (i) for each column]	\$86.3M	\$7.5M	\$93.8M

*Source(s) of funds for Non-State Share (Funding Match):

Agency	Estimated Contribution
SWRCB SRF Loan	\$85.93M
LACSD 14 Bond	\$368,000
Total	\$86.3M



Antelope Valley IRWM Plan
High Priority Projects

Lancaster Water Reclamation Plant Stage V Plant Expansion

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning		June 2004
CEQA (if applicable)		June 2004
Permitting (if applicable)	March 2006	March 2007
Design	TBD	TBD
Construction	TBD	TBD

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

Los Angeles Sanitation District (LACSD). June 2004. LWRP 2020 Facilities Plan and EIR.



Antelope Valley IRWM Plan High Priority Projects

Littlerock Dam Sediment Removal Project

The Littlerock Dam Sediment Removal Project will remove up to 540,000 cubic yards of sediment that has accumulated from runoff in Littlerock Reservoir, and up to 40,000 cubic yards on an annual basis after the initial sediment is removed. The project may include a grade control structure that will protect the identified habitat of the arroyo toad. The project is expected to restore capacity and reliability of surface water storage in Littlerock Reservoir, and could eventually feed into other regional water banking projects such as AVEK's eastside project. CEQA for the project is almost complete.

Agency Name: Palmdale Water District

Joint Agencies: None

Contact Name: Matt Knudson
 Agency: Palmdale Water Agency
 Address: 2029 E. Ave. Q
 City: Palmdale State: CA Zip: 93550
 Phone: 661-947-4111, Ext. 118

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWM Plan Program Guidelines Water Management Strategies*

- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- Assist in meeting Delta Water Quality Objectives;



Antelope Valley IRWM Plan High Priority Projects

Littlerock Dam Sediment Removal Project

- | | |
|--|--|
| <input type="checkbox"/> Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development. | <input type="checkbox"/> Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan; |
| | <input type="checkbox"/> Address environmental justice concerns; and |
| | <input checked="" type="checkbox"/> Assist in achieving one or more goals of the CALFED Bay-Delta Program. |

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

1. How Project Meets Plan Goals and Objectives

This project will help to increase the reliability of the existing water supply for the region, as well as provide open space and natural habitats that protect water resources. This project will also help protect the area immediately upstream of Littlerock Reservoir that provides habitat for the federally endangered arroyo toad (*Bufo californicus*).

2. Project Need

Restore capacity and reliability of surface water storage in Littlerock Reservoir.

3. Scientific Basis for Project:

Littlerock Reservoir Sediment Removal, Specification No. 0412.

4. Location

Littlerock Dam and Reservoir

5. Integration with Other Projects

Project integrates with the other water supply projects in reducing the expected mismatch between supply and demand in 2035.

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: 1,000 AFY
- (b) Water Quality: TBD



Antelope Valley IRWM Plan
High Priority Projects

Littlerock Dam Sediment Removal Project

- (c) Flood Management: NA
- (d) Environmental Resource Management: TBD
- (e) Land Use Management: TBD

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: In progress by Aspen Environmental
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: Yes
- (c) Permitting: The required Federal, State, and local permits will be obtained once the EIR/EIS has been certified.
- (d) Land Acquisition: NA
- (e) UWMP Adopted (if applicable): Yes (December 2005)
- (f) GWMP Adopted (if applicable) or Adjudication: GMWP to be adopted when IRWM Plan adopted
- (g) Environmental Mitigation Needed: TBD

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs	\$40,000	\$10,000	\$50,000
(b) Land Purchase/Easement	\$0	\$0	\$0
(c) Planning/Design/Engineering/Environmental Documentation	\$180,000	\$45,000	\$225,000
(d) Construction/Implementation	\$3,128,000	\$782,000	\$3,910,000
(e) Environmental Compliance/Mitigation/Enhancement	\$110,000	\$27,500	\$137,500
(f) Project Summary [Sum (a) through (e) for each column]	\$3,458,000	\$864,500	\$4,322,500
(g) Construction Administration	\$160,000	\$40,000	\$200,000
(h) Other (Explain):	\$0	\$0	\$0
(i) Construction/Implementation Contingency	\$782,000	\$195,500	\$977,500
(j) Grant Total [Sum (f) through (i) for each column]	\$4,400,000	\$1,100,000	\$5,500,000

*Source(s) of funds for Non-State Share (Funding Match):

Agency	Estimated Contribution
Palmdale Water Agency	\$4,400,000
Total	\$4,400,000

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning		
CEQA (if applicable)	2004	2007
Permitting (if applicable)	2007	2008
Design	2007	2008
Construction	2008	2009

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

NA



Antelope Valley IRWM Plan High Priority Projects

Littlerock Dam Sediment Removal Project

The Littlerock Dam Sediment Removal Project will remove up to 540,000 cubic yards of sediment that has accumulated from runoff in Littlerock Reservoir, and up to 40,000 cubic yards on an annual basis after the initial sediment is removed. The project may include a grade control structure that will protect the identified habitat of the arroyo toad. The project is expected to restore capacity and reliability of surface water storage in Littlerock Reservoir, and could eventually feed into other regional water banking projects such as AVEK's eastside project. CEQA for the project is almost complete.

Agency Name: Palmdale Water District

Joint Agencies: None

Contact Name: Matt Knudson
 Agency: Palmdale Water Agency
 Address: 2029 E. Ave. Q
 City: Palmdale State: CA Zip: 93550
 Phone: 661-947-4111, Ext. 118

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWM Plan Program Guidelines Water Management Strategies*

- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- Assist in meeting Delta Water Quality Objectives;



Antelope Valley IRWM Plan High Priority Projects

Littlerock Dam Sediment Removal Project

- | | |
|--|--|
| <input type="checkbox"/> Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development. | <input type="checkbox"/> Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan; |
| | <input type="checkbox"/> Address environmental justice concerns; and |
| | <input checked="" type="checkbox"/> Assist in achieving one or more goals of the CALFED Bay-Delta Program. |

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

1. How Project Meets Plan Goals and Objectives

This project will help to increase the reliability of the existing water supply for the region, as well as provide open space and natural habitats that protect water resources. This project will also help protect the area immediately upstream of Littlerock Reservoir that provides habitat for the federally endangered arroyo toad (*Bufo californicus*).

2. Project Need

Restore capacity and reliability of surface water storage in Littlerock Reservoir.

3. Scientific Basis for Project:

Littlerock Reservoir Sediment Removal, Specification No. 0412.

4. Location

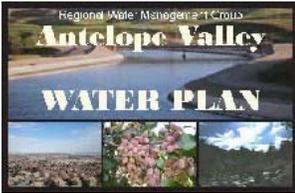
Littlerock Dam and Reservoir

5. Integration with Other Projects

Project integrates with the other water supply projects in reducing the expected mismatch between supply and demand in 2035.

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: 1,000 AFY
- (b) Water Quality: TBD



Antelope Valley IRWM Plan
High Priority Projects

Littlerock Dam Sediment Removal Project

- (c) Flood Management: NA
- (d) Environmental Resource Management: TBD
- (e) Land Use Management: TBD

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: In progress by Aspen Environmental
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: Yes
- (c) Permitting: The required Federal, State, and local permits will be obtained once the EIR/EIS has been certified.
- (d) Land Acquisition: NA
- (e) UWMP Adopted (if applicable): Yes (December 2005)
- (f) GWMP Adopted (if applicable) or Adjudication: GMWP to be adopted when IRWM Plan adopted
- (g) Environmental Mitigation Needed: TBD

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs	\$40,000	\$10,000	\$50,000
(b) Land Purchase/Easement	\$0	\$0	\$0
(c) Planning/Design/Engineering/Environmental Documentation	\$180,000	\$45,000	\$225,000
(d) Construction/Implementation	\$3,128,000	\$782,000	\$3,910,000
(e) Environmental Compliance/Mitigation/Enhancement	\$110,000	\$27,500	\$137,500
(f) Project Summary [Sum (a) through (e) for each column]	\$3,458,000	\$864,500	\$4,322,500
(g) Construction Administration	\$160,000	\$40,000	\$200,000
(h) Other (Explain):	\$0	\$0	\$0
(i) Construction/Implementation Contingency	\$782,000	\$195,500	\$977,500
(j) Grant Total [Sum (f) through (i) for each column]	\$4,400,000	\$1,100,000	\$5,500,000

*Source(s) of funds for Non-State Share (Funding Match):

Agency	Estimated Contribution
Palmdale Water Agency	\$4,400,000
Total	\$4,400,000

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning		
CEQA (if applicable)	2004	2007
Permitting (if applicable)	2007	2008
Design	2007	2008
Construction	2008	2009

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

NA



Antelope Valley IRWM Plan High Priority Projects

Palmdale Water Reclamation Plant Stage V Plant Expansion

The project will upgrade the Palmdale Water Reclamation Plant from oxidation ponds to conventional activated sludge and tertiary treatment with disinfection. It will provide 15 mgd of tertiary-treated recycled water. The project will consist of: aeration tanks, final sedimentation tanks, gravity filters, chlorination facilities with chlorine contact tanks, dissolved air flotation units, anaerobic digestion tanks, sludge dewatering facilities, chemical addition facilities, and miscellaneous buildings and support facilities. The new conventional activated sludge secondary treatment facilities will be designed for a nitrification/denitrification mode of operation to maximize potential reuse opportunities for recycled water. This project is part of the Palmdale Water Reclamation Plant 2025 Facilities Plan and Environmental Impact Report.

Agency Name: Los Angeles County Sanitation District (LACSD)

Joint Agencies: None

Contact Name: Brian Dietrick
 Agency: LACSD
 Address: 1955 Workman Mill Road
 City: Whittier State: CA Zip: 90601
 Phone: 562-908-4288

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWMP Program Guidelines Applicable Program Preferences

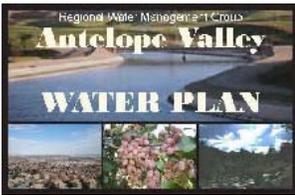
- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities

IRWM Plan Program Guidelines Water Management Strategies*

- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;



Antelope Valley IRWM Plan High Priority Projects

Palmdale Water Reclamation Plant Stage V Plant Expansion

- | | |
|---|---|
| <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development. | <ul style="list-style-type: none"> <input type="checkbox"/> Assist in meeting Delta Water Quality Objectives; <input checked="" type="checkbox"/> Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan; <input checked="" type="checkbox"/> Address environmental justice concerns; and <input type="checkbox"/> Assist in achieving one or more goals of the CALFED Bay-Delta Program. |
|---|---|

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

1. How Project Meets Plan Goals and Objectives

By upgrading and expanding the Palmdale Water Reclamation Plant’s (PWRP) treatment facilities, this project works to provide a reliable water supply, maximize beneficial reuse of wastewater, and improve integrated land use planning to support water management in the Region.

2. Project Need

The project augments water supply by providing recycled water in lieu of potable for landscape irrigation, dust control, construction, and industrial process water.

3. Scientific Basis for Project:

Los Angeles Sanitation District (LACSD). October 2005. PWRP 2025 Facilities Plan and EIR.

4. Location

39300 30th Street East, Palmdale, CA 93550

5. Integration with Other Projects

This project integrates with the range of water banking, groundwater recharge, habitat preservation and recreational space projects proposed in the IRWM Plan by supplying tertiary-treated recycled water.

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: 15 MGD recycled water
- (b) Water Quality: Tertiary treatment standards per Title 22
- (c) Flood Management: NA



Antelope Valley IRWM Plan
High Priority Projects

Palmdale Water Reclamation Plant Stage V Plant Expansion

- (d) Environmental Resource Management: NA
- (e) Land Use Management: NA

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: PWRP 2025 Facilities Plan and EIR, certified in October 2005.
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: TBD
- (c) Permitting: TBD
- (d) Land Acquisition: In progress.
- (e) UWMP Adopted (if applicable): Yes, 2005 Antelope Valley Integrated Urban Water Management Plan.
- (f) GWMP Adopted (if applicable) or Adjudication: NA
- (g) Environmental Mitigation Needed: TBD

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation	\$5.6M	\$0.5M	\$6.1M
(d) Construction/Implementation	\$75.9M	\$6.6M	\$82.5M
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]	\$81.5M	\$7.1M	\$88.6M
(g) Construction Administration			
(h) Other (Explain):			
(i) Construction/Implementation Contingency			
(j) Grant Total [Sum (f) through (i) for each column]	\$81.5M	\$7.1M	\$88.6M

*Source(s) of funds for Non-State Share (Funding Match):

Agency	Estimated Contribution
SWRCB SRF Loan	\$53.1M
LACSD Bond	\$28.4M
Total	\$81.5M

9. Project Schedule

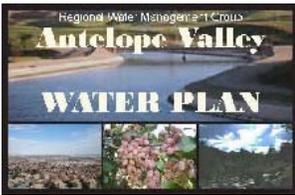
Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning		October 2005
CEQA (if applicable)		October 2005
Permitting (if applicable)	TBD	TBD
Design	TBD	TBD
Construction	TBD	TBD

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

LACSD. October 2005. PWRP 2025 Facilities Plan and EIR.

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Antelope Valley IRWM Plan High Priority Projects

Upper Amargosa Creek Recharge, Flood Control, & Riparian Habitat Restoration Project

The Upper Amargosa Creek Recharge, Flood Control, & Riparian Habitat Restoration Project is jointly proposed by the City of Palmdale and the Antelope Valley-East Kern Water Agency (AVEK). The proposed project will use untreated aqueduct water to recharge the most depressed area of the underlying aquifer. Water would be released into the Upper Amargosa Creek between the California Aqueduct and 20th Street West, and also in the lower Amargosa Creek (Avenue O and Avenue M). This project will additionally increase the amount of protected natural habitat and provide improved flood prevention within the Amargosa Creek watershed. Proposed project improvements include: expanding the size and capacity of the spreading ground of the natural recharge area; developing and preserving an ephemeral stream habitat; where necessary to prevent flooding, confine Amargosa Creek within channel berms with a soft bottom; and providing a grade separation of 20th Street West over Amargosa Creek.



AMARGOSA CREEK
PROPOSED RECHARGE BASIN
City of Palmdale, & PWH Engineering

where necessary to prevent flooding, confine Amargosa Creek within channel berms with a soft bottom; and providing a grade separation of 20th Street West over Amargosa Creek.

Agency Name: City of Palmdale

Joint Agencies: None

Contact Name: Leon Swain
 Agency: Department of Public Works
 Address: 38250 Sierra Highway
 City: Palmdale State: CA Zip: 93550
 Phone: 661-267-5300

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWM Plan Program Guidelines Water Management Strategies*

- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers



Antelope Valley IRWM Plan High Priority Projects

Upper Amargosa Creek Recharge, Flood Control, & Riparian Habitat Restoration Project

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities
- Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development.

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- Assist in meeting Delta Water Quality Objectives;
- Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan;
- Address environmental justice concerns; and
- Assist in achieving one or more goals of the CALFED Bay-Delta Program.

1. How Project Meets Plan Goals and Objectives

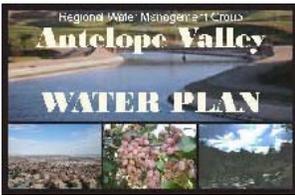
Provides water for aquifer recovery, supply for future use, protects the environment and habitat protection, and reduces negative impact of storm water runoff.

2. Project Need

The most depressed and damaged portion of the Antelope Valley's groundwater basin is within geographical/population center of the valley, which the Amargosa runs through the heart of. Recharge along the Amargosa would provide the most direct feed into the groundwater basin.

3. Scientific Basis for Project:

Per the Stetson Report, the Amargosa ranks as one of the top locations in the valley for groundwater recharge.



Antelope Valley IRWM Plan High Priority Projects

Upper Amargosa Creek Recharge, Flood Control, & Riparian Habitat Restoration Project

4. Location

North side of Elizabeth Lake Road and 25th Street West

5. Integration with Other Projects

This project may integrate with the Westside Groundwater Stabilization Project proposed by AVEK.

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: 5,000 to 10,000 AFY recharge average possibilities. Based on local percolation rates (of 30 Gallons/SF/Day) and using a conservative 10 Gallons/SF/Day for an approximate 40 acre recharge area.
- (b) Water Quality: Helps prevent arsenic in lower aquifer from intruding into upper aquifer. Measurements TBD.
- (c) Flood Management: Channelization of creek will prevent flooding and erosion.
- (d) Environmental Resource Management: Planned mitigation efforts.
- (e) Land Use Management: TBD

7. Readiness to Proceed/Eligibility

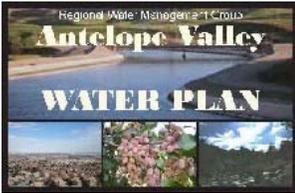
- (a) CEQA Status: CEQA will initiate approximately September 2007
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: TBD
- (c) Permitting: TBD
- (d) Land Acquisition: In progress
- (e) UWMP Adopted (if applicable): NA
- (f) GWMP Adopted (if applicable) or Adjudication: NA
- (g) Environmental Mitigation Needed: TBD

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			\$0.9M
(b) Land Purchase/Easement			\$1.0M
(c) Planning/Design/Engineering/Environmental Documentation			\$0.6M
(d) Construction/Implementation			\$3.6M
(e) Environmental Compliance/Mitigation/Enhancement			\$0.1M
(f) Project Summary [Sum (a) through (e) for each column]			\$6.2M
(g) Construction Administration			\$0.6M
(h) Other (Explain):			\$5.7M
(i) Construction/Implementation Contingency			\$1.0M
(j) Grant Total [Sum (f) through (i) for each column]	\$10.5M	\$3.0M	\$13.5M

**Source(s) of funds for Non-State Share (Funding Match):*

Agency	Estimated Contribution
City of Palmdale	\$3.5M
State Water Contractor	\$2.0M
LACWWD 40	\$5.0M
Total	\$10.5M



Antelope Valley IRWM Plan
High Priority Projects

Upper Amargosa Creek Recharge, Flood Control, & Riparian Habitat Restoration Project

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning	December 2006	September 2007
CEQA (if applicable)	September 2007	September 2008
Permitting (if applicable)	September 2007	September 2009
Design	September 2007	September 2008
Construction	October 2009	February 2010

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

“Study of Potential recharge Sites in the Antelope Valley”, prepared for the Antelope Valley State Water Contractors Association by Stetson Engineers, Inc. from West Covina, California, September 2002.

Remaining High Priority Projects

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Antelope Valley IRWM Plan
High Priority Projects

Amargosa Creek Pathways Project Phase II



The Amargosa Creek Pathways Project is proposed by the City of Lancaster. The proposed project includes development of a top of bank pedestrian trail or 'paseo' along eastern side of Lake Lancaster, and construction of a foot-bridge structure crossing the lake and connecting to the existing trailhead under Hwy 14 to link to the Antelope Valley Fairgrounds. The project integrates recreational space development via stormwater management and natural riparian habitat enhancement, eradication of invasive non-native riparian flora species, preservation, of open space, and enhanced land use management. This project will additionally increase the amount of protected natural habitat and provide improved flood control within the Amargosa Creek watershed.

Agency Name: City of Lancaster

Joint Agencies: None

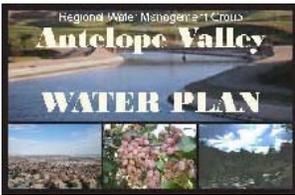
Contact Name: Steve Dassler, Assistant Director
 Agency: City of Lancaster, Public Works Department
 Address: 44933 N. Fern Avenue
 City: Lancaster State: CA Zip: 93534
 Phone: 661-723-6000

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.

IRWM Plan Program Guidelines Water Management Strategies*

- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control



Antelope Valley IRWM Plan High Priority Projects

Amargosa Creek Pathways Project Phase II

- Improve integrated land use planning to support water management.

- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities
- Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development.

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- Assist in meeting Delta Water Quality Objectives;
- Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan;
- Address environmental justice concerns; and
- Assist in achieving one or more goals of the CALFED Bay-Delta Program.

1. How Project Meets Plan Goals and Objectives

The Construction of the Amargosa Creek Pathway is consistent with the goals of both the Antelope Valley IRWMP and Lancaster's General Plan to promote the Pathway as an alternative, environmentally-friendly mode of transportation. This project further promotes the goals of the Lancaster's 'Clean Cities and Blue Sky Program'. The City of Lancaster, designated a Clean City by the United States Department of Energy, has a history of actively supporting projects which offer environmentally-sound transportation and recreational opportunities to the Region's residents. Furthermore, this project meets the goals and objectives of the Antelope Valley IRWM Plan by proposing



Antelope Valley IRWM Plan High Priority Projects

Amargosa Creek Pathways Project Phase II

a comprehensive project that combines aspects of flood control, habitat restoration, land use management and recreational enhancement.

2. Project Need

Consistent with the objectives of the EEMP Program, the Amargosa Pathway will serve a large number of people, including employees of the Fox Field Industrial Corridor, both area residents and those that visit the region. This needed Pathway will provide both recreational and alternative transportation opportunities that do not presently exist in the City's trail system. As previously discussed, the Pathway will connect to the State Fairgrounds and complement other recreational areas and facilities by providing access to many recreational and public service facilities that draw residents and visitors from not only the Antelope Valley region but throughout Southern California.

This Pathway will provide a vital link, which does not currently exist, as the north-south backbone of the trail system and will connect the existing bike paths that generally run east-west, including the Los Angeles County Regional Park and bike trails.

3. Scientific Basis for Project:

The Amargosa Creek Detention Basin collects runoff from the Sierra Pelona Mountains and the San Andreas Rift Zone as well as surface runoff from the City and holds this surface flow until it percolates, evaporates, or is conveyed through an outflow at the northwestern corner of the Basin and eventually into the Rosamond Dry Lake Bed.

In January 2007, a biological survey was conducted by the City of Lancaster in the recently established cottonwood-willow riparian habitat that has emerged in the flood-control basin, particularly in the southeastern portion, comprising Lake Lancaster. The survey consisted of examining potential nesting areas (i.e., trees and shrubs), a herpetological survey and a tree count of greater than 3 inches diameter breast height (DBH). Results of this survey were instrumental in preserving and reconfiguring the riparian habitat that is considered a focal point of this project.

In March 2007, a geotechnical engineering report was conducted by the City of Lancaster and prepared during the project's design phase to evaluate geotechnical engineering characteristics of the on-site subsurface soils relative to anticipated project development.

4. Location

City of Lancaster: Amargosa Creek Flood control Basin north of Avenue H between 20th St W and SH 14.

5. Integration with Other Projects

This project integrates flood control, stormwater management, open space management and recreational/land use management with environmental synergy and conservation, by constructing a pathway in harmony with established riparian habitat within a flood control management basin which captures stormwater and nuisance water runoff that sustains riparian habitat. A foot-bridge would connect existing trailheads and allow for pedestrian movement to and from the AV Fairgrounds.

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: Negligible.
- (b) Water Quality: Natural attenuation.
- (c) Flood Management: Flood control basin enhancement.
- (d) Environmental Resource Management: Enhancement of riparian habitat, and restoration of native plant species.
- (e) Land Use Management: Development of recreational pedestrian trails and footbridge, resulting in reduced



**Antelope Valley IRWM Plan
High Priority Projects**

Amargosa Creek Pathways Project Phase II

greenhouse gas emissions from vehicular traffic.

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: CEQA documentation complete.
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: TBD
- (c) Permitting: In process of determining nature and authorities required.
- (d) Land Acquisition: Complete.
- (e) UWMP Adopted (if applicable): NA
- (f) GWMP Adopted (if applicable) or Adjudication: NA
- (g) Environmental Mitigation Needed: Yes, anticipated riparian habitat mitigation.

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation			
(d) Construction/Implementation			
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]			
(g) Construction Administration			
(h) Other (Explain):			
(i) Construction/Implementation Contingency			
(j) Grant Total [Sum (f) through (i) for each column]	TBD	TBD	\$1.3M

*Source(s) of funds for Non-State Share (Funding Match):

Agency	Estimated Contribution
TBD	TBD
Total	TBD

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning		
CEQA (if applicable)		
Permitting (if applicable)		
Design		
Construction		

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

NA



Antelope Valley IRWM Plan High Priority Projects

Antelope Valley Regional Flood Management Plan

The proposed project is the coordination of a flood management plan for the Antelope Valley by 2010. The Plan should play a role in helping to direct the location, pattern and design of development to reduce flood damage, maximize groundwater recharge and meet other land use objectives throughout the Valley. The Plan could include regional strategies to coordinate mitigation efforts and contingency plans that address the various levels of risk associated with different areas and flood events. The Plan process would also serve as an important opportunity to improve and update flood management mapping and technology, and could act as a resource to developers and land owners interested in implementing on-site stormwater management strategies.

Agency Name: Cities of Lancaster & Palmdale, Los Angeles County Department of Public Works, Los Angeles Flood Control District, Kern County

Joint Agencies (potential): Edwards Air Force Base, Federal Emergency Management Agency

Contact Name: TBD
 Agency:
 Address:
 City: State: Zip:
 Phone:

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWM Plan Program Guidelines Water Management Strategies*

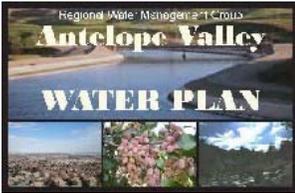
- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;



Antelope Valley IRWM Plan High Priority Projects

Antelope Valley Regional Flood Management Plan

- | | |
|---|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> Include safe drinking water and water quality projects that serve disadvantaged communities <input checked="" type="checkbox"/> Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development. | <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan; <input checked="" type="checkbox"/> Assist in meeting Delta Water Quality Objectives; <input checked="" type="checkbox"/> Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan; <input type="checkbox"/> Address environmental justice concerns; and <input checked="" type="checkbox"/> Assist in achieving one or more goals of the CALFED Bay-Delta Program. |
|---|--|

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

1. How Project Meets Plan Goals and Objectives

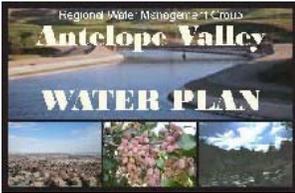
This project works towards the IRWM Plan objectives of flood management and stormwater capture and management by providing a collaborative venue for flood management planning within the Region and a potential mechanism for future funding of flood management projects that address other Plan goals such as improved water supply and environmental resource and land use management.

2. Project Need

The Valley's extensive network of alluvial fans is highly prone to erosion. At the same time, urbanization across these areas and throughout the Valley continues to occur at a pace such that the individual approach to flood control cannot address the Region's major drainage needs. Additionally, development in flood plains creates a loss in groundwater recharge capacity while simultaneously increasing the demand for domestic water supply. A regional flood management plan would work to prevent future loss of recharge areas and damage to built and natural communities and to mitigate damage to existing amenities.

3. Scientific Basis for Project:

The Antelope Valley Final Report on the Comprehensive Plan of Flood Control and Water Conservation (LADPW 1987) justifies the continuing need for integrated flood management throughout the Valley. In addition, noted changes in climate and the hydrologic cycle result in less predictable storm and fire patterns, making the Valley more susceptible to flooding or debris flow.



Antelope Valley IRWM Plan
High Priority Projects

Antelope Valley Regional Flood Management Plan

4. Location

The Antelope Valley Region.

5. Integration with Other Projects

Integrates with Upper Amargosa Creek Recharge, Flood Control and Riparian Habitat Restoration Project (WS-1), Ecosystem and Riparian Habitat Restoration of Amargosa Creek; Ave L to Ave G (EM-1), and the Antelope Valley Land Use Management Plan (LM-1).

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: 0 AFY
- (b) Water Quality: NA
- (c) Flood Management: TBD
- (d) Environmental Resource Management: TBD
- (e) Land Use Management: TBD

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: NA
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: TBD
- (c) Permitting: NA
- (d) Land Acquisition: NA
- (e) UWMP Adopted (if applicable): NA
- (f) GWMP Adopted (if applicable) or Adjudication: NA
- (g) Environmental Mitigation Needed: NA

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation			
(d) Construction/Implementation			
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]			
(g) Construction Administration			
(h) Other (Explain):			
(i) Construction/Implementation Contingency			
(j) Grant Total [Sum (f) through (i) for each column]	TBD	TBD	TBD

**Source(s) of funds for Non-State Share (Funding Match):*

Agency	Estimated Contribution
TBD	TBD
Total	TBD



Antelope Valley IRWM Plan
High Priority Projects

Antelope Valley Regional Flood Management Plan

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning		
CEQA (if applicable)		
Permitting (if applicable)		
Design		
Construction		

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

Los Angeles County Department of Public Works (LADPW). 1987. Antelope Valley Final Report on the Comprehensive Plan of Flood Control and Water Conservation.

Other resources and studies available from the L.A. County Flood Control District.

General Plans and Urban Water Management Plans for municipalities within the Region.



Antelope Valley IRWM Plan High Priority Projects

Antelope Valley Water Bank

The Antelope Valley Water Bank (AVWB) is being developed by Western Development and Storage (WDS). The water bank, located on 1,700 acres of farmland, will provide 500,000 acre-feet (AF) of storage in the Neenach Sub-basin of the Antelope Valley Basin and will have the ability to recharge and recover 100,000 AF/yr. This storage will be used to regulate supplies on a seasonal and year-to-year basis by storing water when it is plentiful for later use when needed. The project is strategically located near imported water supply wheeling infrastructure (1 mile from AVEK West Feeder, 8 miles from East Branch of the SWP California Aqueduct, and immediately adjacent to the Los Angeles Aqueduct #2) providing a geographically logical means to store and regulate supplies. Recharge through up to 1,500 acres of basins, will occur primarily during the winter and early spring. The remainder of the year, the land will be used for agricultural production (carrots, onions, wheat, barley). Water recovery will be performed using 30 to 50 wells (many already existing), with the water pumped into the AVEK West Feeder or back to the East Branch of the California Aqueduct. CEQA review for the project has been completed without challenge (Kern County EIR certified in September 2006), extensive pilot testing is complete, a Monitoring Committee has been formed and engineering design is underway. Phase 1 recharge through existing infrastructure is anticipated to commence in Fall 2007.

WDS continues to invite agencies and other entities in the Antelope Valley to participate in the AVWB. Any water agencies or parties could use grant monies to purchase capacity in this banking program. In January 2007, WDS responded to a Request for Statement of Qualifications (RFSOQ) for Water Banking from Los Angeles County Waterworks District 40 (LACWWD 40). WDS qualified and subsequently received a Request for Proposals for Water Banking from LACWWD 40, to which WDS responded. This proposal is under review.

Agency Name: Western Development & Storage

Joint Agencies: None

Contact Name: Andrew Werner
 Agency: Western Development & Storage
 Address: 5700 Wilshire Blvd., Suite 330
 City: Los Angeles State: CA Zip: 93005
 Phone: 323-244-5756

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWM Plan Program Guidelines Water Management Strategies*

- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
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- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers



Antelope Valley IRWM Plan High Priority Projects

Antelope Valley Water Bank

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities
- Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development.

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

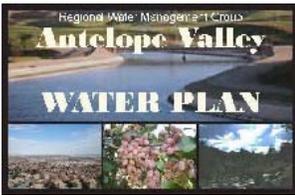
Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- Assist in meeting Delta Water Quality Objectives;
- Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan;
- Address environmental justice concerns; and
- Assist in achieving one or more goals of the CALFED Bay-Delta Program.

1. How Project Meets Plan Goals and Objectives

Water Supply Reliability: The AVWB will allow water that is periodically available in excess of current needs to be stored for recovery and use when supplies are limited. In addition, the AVWB will contribute 10% of all imported water to the basin to aid in stabilization of aquifer overdraft.

Contingency Plan: The AVWB is located south of the Bay-Delta and on the uphill side of SWP Edmonston Pumping Plant, thus in the event of disruption of pumping at either location, water could be recovered and used to help minimize disruption of supplies. In addition, the AVWB is off-stream and several hundred feet downhill from the East Branch of the California Aqueduct, thus water can be conveyed to the facility entirely through gravity in the absence of power supplies.



Antelope Valley IRWM Plan High Priority Projects

Antelope Valley Water Bank

Stabilize Groundwater Levels: The project will donate 10% of all imported supplies to the basin to aid in stabilization of aquifer overdraft.

Provide Drinking Water That Meets Expectations: Testing indicates that water recovered from the AVWB will be of equal or better quality to that of the SWP (arsenic has never been detected), thus existing drinking water treatment systems will be capable of handling water recovered from the project.

Protect Aquifer from Contamination: Project lands are being converted to organic farming practices, thus reducing the loading of potential contaminants. Extensive pilot testing has demonstrated that groundwater quality will remain acceptable.

Reduce Nuisance Water: The project is located on the tributary fan of Cottonwood Creek. Surrounding roads are commonly flooded and become impassable during run-off events. In coordination with Kern County, the site will be graded to reduce run-off onto roads, reducing damage and nuisance to surrounding landowners.

Maintain Agricultural Land Use: The project lands will remain in agricultural production (organic practices) when not being used for recharge.

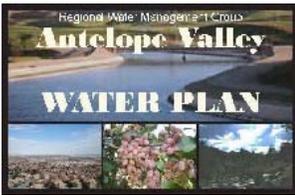
2. Project Need

The availability of imported State Water Project (SWP) water is annually and seasonally variable preventing SWP importers from maximizing the use of available SWP water supplies. The AVWB will provide storage which will allow for the importation of SWP water when it is available (typically during wet years and winter months) for recharge and storage underground. These stored supplies can be recovered when needed (typically during dry years and summer months). The AVWB will provide water storage through facilities that are of sufficient size and scope to be both cost-effective and environmentally sound.

Additionally, historical pumping in the area of the AVWB has caused a general decline in the water table. The AVWB will leave 10% of all stored water behind in the aquifer to aid in recovery or to slow the decline of the water table.

3. Scientific Basis for Project:

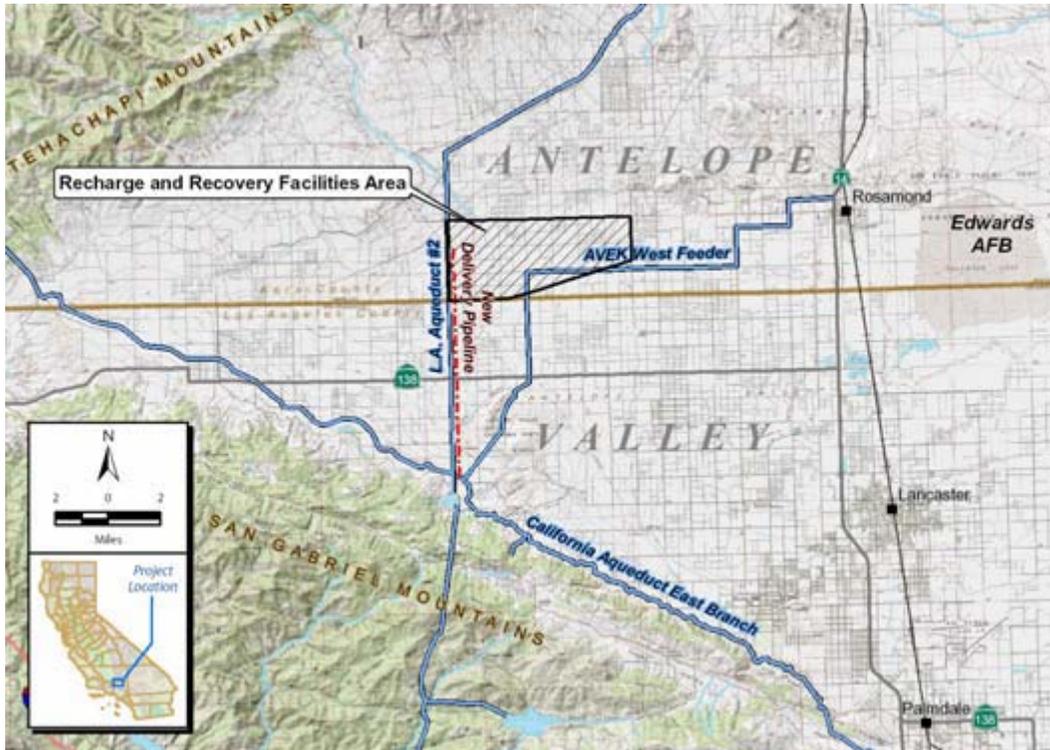
The AVWB location was selected, investigated and pilot-tested through a rigorous, multi-million dollar, 6-year program designed to select the optimum location for water banking. Work has included: over 13,000 man hours, detailed GIS screening of several thousand square miles, ground reconnaissance of 400 square miles, review of over 100 databases and studies, consultation with over 15 agencies, compilation of a database of well logs, water levels and aquifer tests, review of over 400 parcels, contact with 60 landowners, 17 exploratory trenches, 16 trench-based percolation tests, 105 sieve analyses, 25 soil samples analyzed for hydraulic parameters, over 100 water quality analyses, continuous logging of groundwater levels, pH/EC/temp, 5 deep exploratory boreholes with GP logging, 20 cone penetrometer surveys, a 10-month highly instrumented pilot test with 5 air piezometers, 4 water piezometers/monitor wells (continuously logged), 1 neutron access tube (10 neutron logging cycles), 6 tensiometers (continuously logged), 3 lysimeters, barometric pressure wave testing, analysis of 82 leachate samples from 6 soil cores leached with SWP water, water table mounding analysis, leachate mass balance analysis, engineering feasibility analysis, and biological surveys. **This work indicates that project requirements are met or exceeded.**



Antelope Valley IRWM Plan High Priority Projects

Antelope Valley Water Bank

4. Location



5. Integration with Other Projects

The AVWB is strategically located one mile from AVEK West Feeder, eight miles from East Branch of the SWP California Aqueduct, and immediately adjacent to the Los Angeles Aqueduct #2 providing the ability to transport water to and from the AVWB via these three arterial water supply lines. Through these conveyances, water supplies stored in the AVWB could be delivered to all parts of the AVEK, PWD, and LCID service territories in the Antelope Valley. The project can be further integrated with the “Water Supply Stabilization Project –Westside Project” via several projects proposed by Rosamond Community Services District (RCSD) as follows:

- RCSD has proposed the drilling of 6 deep wells between 70th and 140th to Street West. These wells are partially located within the recovery area designated by the AVWB Environmental Impact Report (EIR). These wells could be used to recover stored water from the AVWB.
- RCSD has also proposed the Gaskell Road Pipeline which would extend to within one mile of the AVWB. This pipeline could be used to deliver supplies recovered from the AVWB to RCSD.

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- Water Supply: 100,000 AFY recharge/recovery; 500,000 AF storage
- Water Quality: Equal to or better than SWP quality
- Flood Management: Reduces run-off onto roads
- Environmental Resource Management: Reduces aquifer overdraft, reduces agricultural loading of herbicides/pesticides, no damage to special status habitats or species.
- Land Use Management: Preserves 1,700 acres of agricultural land



Antelope Valley IRWM Plan
High Priority Projects

Antelope Valley Water Bank

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: EIR certified by Kern County (September 2006), no objections filed.
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: Yes, 99% funded by WDS.
- (c) Permitting: Only minor secondary permits are required. Anticipate grading permit for Phase 1 from Kern County in Fall 2007. Well permits will be obtained as required
- (d) Land Acquisition: Underway.
- (e) UWMP Adopted (if applicable): NA
- (f) GWMP Adopted (if applicable) or Adjudication: NA, although Monitoring Committee has been formed.
- (g) Environmental Mitigation Needed: NA, there are no wetlands or special status species.

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation			
(d) Construction/Implementation			
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]			
(g) Construction Administration			
(h) Other (Explain):			
(i) Construction/Implementation Contingency			
(j) Grant Total [Sum (f) through (i) for each column]			

*Source(s) of funds for Non-State Share (Funding Match):

Agency	Estimated Contribution
TBD	TBD
Total	TBD

WDS is offering shares in the AVWB to all interested parties. At build-out, the AVWB will have the following capacities:

- Total Storage Capacity – 500,000 AF
- Annual Recharge Capacity – 100,000 AF/Yr
- Annual Recovery Capacity – 100,000 AF/Yr

Participation in the AVWB is being offered on the basis of shares whereby each share provides:

- 1 AF/Yr Firm Recovery plus surplus capacity as available
- 5 AF Firm Storage
- 1 AF/Yr Recharge plus surplus capacity as available

100,000 shares are available in the AVWB. AVWB Banking Partners will have a firm right to a specified amount of storage and an annual right to recharge and recovery based upon the number of shares held. In addition, an AVWB Banking Partner may access any unused capacity available in the system.

The cost per share is based on an estimated overall project cost and consists of a \$1,700 per share payment.



Antelope Valley IRWM Plan High Priority Projects

Antelope Valley Water Bank

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning	December 2001	Completed October 2006
CEQA (if applicable)	April 2005	Completed September 2006
Permitting (if applicable)	Q3 2006	Phase 1 Q3 2007
Design	February 2006	Phase 1 Q3 2007
Construction**	Phase 1 Q3 2007	Phase 1 Q2 2008

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

**Phase 2 will be designed and constructed as required by demand

10. Additional Studies Available

“Trench, Geotech, & Percolation Data at Proposed Project Site”, Layne Geosciences (May 2002)

“Title 22 Groundwater Analyses at Proposed Project Site”, Layne Geosciences (June 2003)

“Exploratory Test Hole Data at Proposed Project Site”, Layne Geosciences (October 24, 2003)

“Antelope Valley Water Bank, Water Banking Feasibility Evaluation, WDS (February 2005)

“Cone Penetrometer Investigation, Antelope Valley Pilot Test,” Layne Geosciences (June 2006)

“Neutron Log Runs 1 through 10, Antelope Valley Pilot Test,” Layne Geosciences (June 2006)

“Monitoring Well and Piezometers As-Built,” Layne Geosciences (June 2006)

“Tensiometers and Lysimeters As-Built,” Layne Geosciences (June 2006)

“Certified EIR, Antelope Valley Water Bank,” Kern County Planning Dept. (September 2006)

“Antelope Valley Recharge Pilot Test, Final Report,” Geosystems Analysis, (October 2006)

“Preliminary Cost Estimate for Construction and Operation of the Antelope Valley Water Bank,” Kennedy-Jenks Consultants, work in-progress

Numerous water quality reports by Sierra Analytical 2005 - 2007

Numerous other studies, models and investigations by others relating to the project area and referenced as appropriate in the reports cited above.



Antelope Valley IRWM Plan High Priority Projects

Aquifer Storage and Recovery Project: Injection Well Development

The Aquifer Storage and Recovery Project is proposed by the Los Angeles County Waterworks District No. 40 in cooperation with the Antelope Valley-East Kern Water Agency. This phase of the project will construct 10 new groundwater wells that will be used for injection and extraction of treated imported water. The wells will penetrate the area of most severe groundwater depression in the Lancaster subunit of the Antelope Valley Groundwater Basin. These wells will improve water supply reliability by storing available water during wet periods for use during dry periods. The project is designed to allow up to 3,300 acre-feet of water per year (AFY) to be injected during wet years, and up to 12,000 AFY to be extracted during dry years.



Agency Name: Los Angeles County Waterworks District No. 40 (LACWWD 40)

Joint Agencies: None

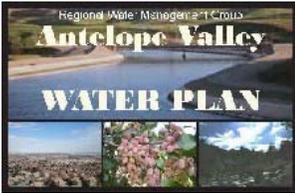
Contact Name: Dave Rydman, Associate Civil Engineer
 Agency: LACWWD 40
 Address: 900 South Fremont
 City: Alhambra State: CA Zip: 91803
 Phone: 626-300-3351

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWM Plan Program Guidelines Water Management Strategies*

- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers



Antelope Valley IRWM Plan High Priority Projects

Aquifer Storage and Recovery Project: Injection Well Development

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities
- Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development.

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- Assist in meeting Delta Water Quality Objectives;
- Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan;
- Address environmental justice concerns; and
- Assist in achieving one or more goals of the CALFED Bay-Delta Program.

1. How Project Meets Plan Goals and Objectives

By helping to increase the reliability of the AVEK water supply, the project would help to meet the expected mismatch in supply and demand during average, single and multi-dry years. The project would also allow for additional ASR program development which could help facilitate programs which would help to stabilize the groundwater levels.

2. Project Need

This project would improve the reliability of the AVEK water supply which due to capacity constraints cannot be fully utilized.



Antelope Valley IRWM Plan High Priority Projects

Aquifer Storage and Recovery Project: Injection Well Development

3. Scientific Basis for Project:

This project will utilize a depressed area of the Antelope Valley Groundwater Basin to store excess imported water supplies during wet years and extract the same water from the groundwater basin during dry years. The District is already operating 11 additional wells in this capacity to store and recover available imported water.

4. Location

The wells will be constructed on sites owned by the District near the following intersections.

- Avenue M and 5th Street East
- Avenue K-8 and Business Center Parkway
- Avenue J and Trevor Avenue
- Avenue H and 15th Street West
- Avenue H-8 and 17th Street West

5. Integration with Other Projects

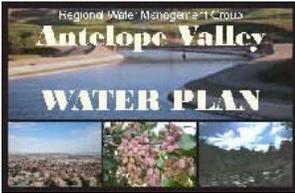
This project will integrate with the other water storage projects proposed in the Plan to ensure a reliable water supply for the Valley during dry periods.

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: Increases water supply reliability by 12,000 AFY during dry years.
- (b) Water Quality: TBD
- (c) Flood Management: NA
- (d) Environmental Resource Management: NA
- (e) Land Use Management: TBD

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: CEQA process has been initiated.
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: Yes, 75% match from the Los Angeles County Waterworks District No. 40, Antelope Valley.
- (c) Permitting: Permits to operate the wells will be required by the Lahonton Regional Water Quality Control Board and the State of California Department of Health Services
- (d) Land Acquisition: All property for the project already owned by the District.
- (e) UWMP Adopted (if applicable): Yes, 2005 Antelope Valley Integrated Urban Water Management Plan
- (f) GWMP Adopted (if applicable) or Adjudication: GWMP adopted when AV IRWM Plan adopted.
- (g) Environmental Mitigation Needed: TBD



Antelope Valley IRWM Plan
High Priority Projects

Aquifer Storage and Recovery Project: Injection Well Development

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation			
(d) Construction/Implementation			
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]			
(g) Construction Administration			
(h) Other (Explain):			
(i) Construction/Implementation Contingency			
(j) Grant Total [Sum (f) through (i) for each column]	\$7.5-11.25M	\$2.5-3.75M	\$10-15M

**Source(s) of funds for Non-State Share (Funding Match):*

Agency	Estimated Contribution
LACWWD 40	\$7.5-11.25M
Total	\$7.5-11.25M

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning		
CEQA (if applicable)		
Permitting (if applicable)		
Design		
Construction		

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

NA



Antelope Valley IRWM Plan High Priority Projects

Avenue K Transmission Main, Phases I-IV

The Avenue K Transmission Main, Phases I-IV project consists of four phases for a total of approximately 32,000 linear feet of 30-inch and 36-inch diameter steel transmission main. The proposed transmission main will have interconnections to the existing distribution system and will increase the capacity of the water system to meet the existing domestic and fire protection requirements.

Agency Name: Los Angeles County Waterworks District 40 (LACWWD 40)

Joint Agencies: None

Contact Name: Michael Ignatius
 Agency: LACWWD 40
 Address: 900 S. Fremont Street
 City: Alhambra State: CA Zip: 90043
 Phone: (626) 300-3396

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWM Plan Program Guidelines Water Management Strategies*

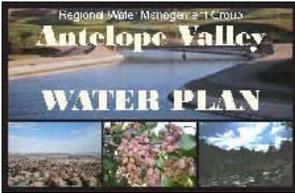
- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities
- Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- Assist in meeting Delta Water Quality Objectives;
- Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan;



Antelope Valley IRWM Plan High Priority Projects

Avenue K Transmission Main, Phases I-IV

Water District of Southern, California, or 3) within one mile of established residential and commercial development.

- Address environmental justice concerns; and
- Assist in achieving one or more goals of the CALFED Bay-Delta Program.

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

1. How Project Meets Plan Goals and Objectives

The project helps to meet the plans goals and objectives by providing infrastructure upgrades that will help the region to provide a reliable water supply.

2. Project Need

This proposed transmission main will have interconnections to the existing distribution system and will increase the capacity of the water system to meet the existing domestic and fire protection requirements.

3. Scientific Basis for Project:

NA

4. Location

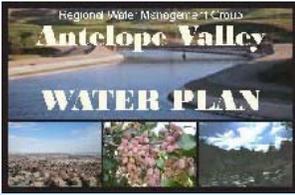
Phases I - V will be aligned in Avenue K and consist of: 8,000 ft from 10th St. West to 5th St. East; 8,000 feet from 5th St. East to 20th St. East; 10,800 feet from 10th St. West to 30th St. West; & 5280 feet from 20th St. East to 30th St. East; 15,800 ft from 30th St East to 60th St. East; respectively.

5. Integration with Other Projects

Will integrate with AVEK's Westside Stabilization Project (WS-2).

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: 0 AFY
- (b) Water Quality: NA
- (c) Flood Management: NA



Antelope Valley IRWM Plan
High Priority Projects

Avenue K Transmission Main, Phases I-IV

- (d) Environmental Resource Management: NA
- (e) Land Use Management: NA

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: Completed
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: Yes
- (c) Permitting: TBD
- (d) Land Acquisition: NA
- (e) UWMP Adopted (if applicable): NA
- (f) GWMP Adopted (if applicable) or Adjudication: NA
- (g) Environmental Mitigation Needed: NA

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation			
(d) Construction/Implementation			
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]			
(g) Construction Administration			
(h) Other (Explain):			
(i) Construction/Implementation Contingency			
(j) Grant Total [Sum (f) through (i) for each column]	\$1.0M	\$9.0M	\$10.0M

*Source(s) of funds for Non-State Share (Funding Match):

Agency	Estimated Contribution
LACWWD 40	\$1.0M
Total	\$1.0M

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning		
CEQA (if applicable)		
Permitting (if applicable)		
Design		
Construction		

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

NA

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Antelope Valley IRWM Plan High Priority Projects

Coordinated Land Use Management Plan

The proposed project is the coordination of a land use management plan for the Antelope Valley. A regional land use plan that directs the Region's growth towards existing urban centers will help protect agricultural lands, natural habitat and recreational open space, and will encourage the efficient use of water and economic resources dedicated to water utilities infrastructure improvements and expansions. This effort will include the "Antelope-Fremont Watershed Assessment and Plan" project. The watershed assessment project would fund the 606 Studio to work with regional stakeholders to coordinate a regional land use plan with emphasis on the preservation and restoration of sensitive natural systems of the Region.

Agency Name: Cities of Lancaster & Palmdale, Los Angeles Department of Public Works, Kern County

Joint Agencies: Antelope Valley Conservancy

Contact Name: Wendy Reed
 Agency: Antelope Valley Conservancy
 Address: PO Box 3133
 City: Quartz Hill State: CA Zip: 93586
 Phone: 661-943-9000

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWM Plan Program Guidelines Water Management Strategies*

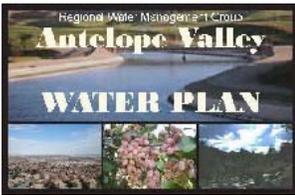
- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;



Antelope Valley IRWM Plan High Priority Projects

Coordinated Land Use Management Plan

- | | |
|--|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> serve disadvantaged communities <input type="checkbox"/> Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development. | <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Assist in meeting Delta Water Quality Objectives; <input type="checkbox"/> Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan; <input checked="" type="checkbox"/> Address environmental justice concerns; and <input checked="" type="checkbox"/> Assist in achieving one or more goals of the CALFED Bay-Delta Program. |
|--|--|

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

1. How Project Meets Plan Goals and Objectives

Because this assessment and plan applies a systems approach -- the CalFed Approach -- to watershed stewardship, it will enhance capacity building of storage, aquifer recharge, and runoff treatment, reducing reliance on State Water supplies and enhancing water quality. It will inform regional projects and create land management plans to satisfy trustee agencies for regional conservation lands. Therefore, this project exponentially benefits all Antelope Valley projects' watershed habitat components, maximizing capacity building, and integrating watershed stewardship in the community.

2. Project Need

Antelope Valley's population is expected to grow at an unprecedented rate in the years to come. In the meantime, there is no venue for collective land use planning, nor is there a mechanism in place to guide development at the regional level. As a result, urbanization occurs piece-meal and often results in the loss of agricultural lands, recreational open space and significant natural communities. Oftentimes these land uses have greater potential than urban uses to provide multiple benefits including groundwater recharge, water quality protection, and flood protection.

Ideally, a regional land use plan would serve as a master plan for the Region's physical development. As such, it could provide the opportunity to conduct design studies to test the physical capacity of the Region's urban areas and centers of development. Such a focus on physical design can help regional agencies to understand and visualize the impact of new structures on the natural and built environment, and thus to better understand the consequences of planning policy.



Antelope Valley IRWM Plan
High Priority Projects

Coordinated Land Use Management Plan

3. Scientific Basis for Project:

NA

4. Location

The Antelope Valley Region.

5. Integration with Other Projects

Integrates with Upper Amargosa Creek Project (WS-1); Water Supply Stabilization- Westside Project (WS-2); Antelope Valley Water Bank (WS-4); Regional Recycled Water Project Phase 2 (RW-1); Groundwater Recharge Using Recycled Water Project (RW-2); Comprehensive Water Conservation/Water Use Efficiency Program (WC-1); Ecosystem & Riparian Habitat Restoration of Amargosa Creek (EM-1); and Amargosa Creek Pathways Phase II (LM-1).

6. Estimation/Measurement of Project Benefits (Quantify if possible)

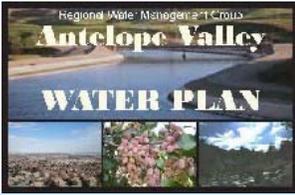
- (a) Water Supply: TBD
- (b) Water Quality: TBD
- (c) Flood Management: NA
- (d) Environmental Resource Management: 2,000 acres of habitat/conservation lands.
- (e) Land Use Management: TBD

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: NA
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: Other grant funds and donations.
- (c) Permitting: NA
- (d) Land Acquisition: NA
- (e) UWMP Adopted (if applicable): NA
- (f) GWMP Adopted (if applicable) or Adjudication: NA
- (g) Environmental Mitigation Needed: NA

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total**
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation			
(d) Construction/Implementation			
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]			
(g) Construction Administration			
(h) Other (Explain):			
(i) Construction/Implementation Contingency			
(j) Grant Total [Sum (f) through (i) for each column]	\$4,500	\$40,500	\$45,000



Antelope Valley IRWM Plan
High Priority Projects

Coordinated Land Use Management Plan

**Source(s) of funds for Non-State Share (Funding Match):*

Agency	Estimated Contribution
TBD – Other Grant Funds/Donations	\$4,500
Total	\$4,500

** \$45,000 is the cost estimate for the preparation of the *Antelope-Fremont Watershed Assessment and Plan*. The total cost of preparation of the regional land use management plan has not yet been estimated.

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning	Autumn 2007	May 2009
CEQA (if applicable)	NA	NA
Permitting (if applicable)	NA	NA
Design	NA	NA
Construction	NA	NA

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

County of Los Angeles Department of Regional Planning. 1986. Antelope Valley Areawide General Plan.

City of Lancaster General Plan Citizens Committee. 2002. City of Lancaster 2020 General Plan.

City of Palmdale General Plan

Kern County Planning Department. 2004. Kern County General Plan

Kern County. 2003. Mohave Specific Plan



Antelope Valley IRWM Plan High Priority Projects

Ecosystem & Riparian Habitat Restoration of Amargosa Creek; Ave J to Ave H

The Ecosystem & Riparian habitat restoration of Amargosa Creek; Avenue J to Avenue H, proposed by the City of Lancaster, establishes riparian habitat along the eastern edge of the Amargosa Creek extending approximately from Avenue J north to Avenue H. This effort will create a continuous “riparian curtain” that will provide physical buffers and offsets to negative impacts on the overall ecosystem of ephemeral and riparian habitat. Holistic restoration projects such as this provide multiple benefits including habitat connectivity, acoustic and visual buffers and wetlands creation and enhancement. This project requires site reconnaissance, coordination with California Department of Fish and Game, various bio-assessments and plantings prior to implementation and creation.

Agency Name: City of Lancaster

Joint Agencies: City of Lancaster Redevelopment Department, Public Works, California Department of Fish & Game

Contact Name: Peter Zorba
 Agency: City of Lancaster
 Address: 44933 N Fern Street
 City: Lancaster State: CA Zip: 93594
 Phone: 661-723-6234

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWM Plan Program Guidelines Water Management Strategies*

- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- Assist in meeting Delta Water Quality Objectives;



Antelope Valley IRWM Plan High Priority Projects

Ecosystem & Riparian Habitat Restoration of Amargosa Creek; Ave J to Ave H

- | | |
|--|---|
| <input type="checkbox"/> Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development. | <input checked="" type="checkbox"/> Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan; |
| <input type="checkbox"/> Address environmental justice concerns; and | <input checked="" type="checkbox"/> Assist in achieving one or more goals of the CALFED Bay-Delta Program. |

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

1. How Project Meets Plan Goals and Objectives

This project works towards IRWM Plan goals of improved water quality, flood management, and environmental resource and land use management by restoring the riparian corridor along this stretch of Amargosa Creek.

2. Project Need

Restoration projects such as this are holistic and enhance the environment, providing physical buffers and off-sets to impacts on the overall ecosystem of ephemeral and riparian habitat associated with Amargosa Creek.

3. Scientific Basis for Project:

Riparian ecosystems are connected to aquatic ecosystems both by direct fluxes and, below-ground, through the hyporheic zone (Lowrance et al. 1997). Riparian zones are managed to maintain the integrity of stream channels and shorelines, and often restored and reconstructed to improve habitat for fish and to stabilize banks against erosion and incision. According to the EPA, such efforts also may serve to benefit water quality. Riparian buffers reduce the impact of upland sources of pollution by trapping, filtering and converting sediments, nutrients, and other chemicals. Thus, the same techniques used to improve fish habitat or stabilize stream banks may also serve to remove or reduce nutrients that have detrimental effects on human health and aquatic life. Buffers also help to absorb periodic flood pulses, and the riparian wetlands that provide flood benefits are generally known to be more productive than adjacent upland ecosystems because of their unique hydrologic conditions (Mitsch and Gosselink 1993).

4. Location

Along the eastern edge of Amargosa Creek extending approximately from Avenue J north to Avenue H.



Antelope Valley IRWM Plan
High Priority Projects

Ecosystem & Riparian Habitat Restoration of Amargosa Creek; Ave J to Ave H

5. Integration with Other Projects

This project integrates with the Amargosa Creek Pathways project (LM-1); Upper Amargosa Creek Recharge, Flood Control & Riparian Habitat Restoration Project.

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: 1-1,000 AFY
- (b) Water Quality: TBD
- (c) Flood Management: TBD
- (d) Environmental Resource Management: TBD
- (e) Land Use Management: TBD

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: Completed
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: TBD
- (c) Permitting: TBD
- (d) Land Acquisition: NA
- (e) UWMP Adopted (if applicable): NA
- (f) GWMP Adopted (if applicable) or Adjudication: NA
- (g) Environmental Mitigation Needed: TBD

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation			
(d) Construction/Implementation			
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]			
(g) Construction Administration			
(h) Other (Explain):			
(i) Construction/Implementation Contingency			
(j) Grant Total [Sum (f) through (i) for each column]	\$1.0M	\$9.0M	\$10.0M

**Source(s) of funds for Non-State Share (Funding Match):*

Agency	Estimated Contribution
City of Lancaster	\$1.0M
Total	\$1.0M



Antelope Valley IRWM Plan
High Priority Projects

Ecosystem & Riparian Habitat Restoration of Amargosa Creek; Ave J to Ave H

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning		
CEQA (if applicable)		
Permitting (if applicable)		
Design		
Construction		2008

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

City of Lancaster 2020 General Plan. 2002. General Plan Citizens Committee

City of Lancaster General Plan, Drainage and Basin Maintenance Planning and the Recycled Water Master Plan.



Antelope Valley IRWM Plan High Priority Projects

Palmdale Water Reclamation Plant Existing Effluent Management Site

This project consists of improvements to the existing effluent management site at the Palmdale Water Reclamation Plant (PWRP). These improvements will improve water quality in the local groundwater aquifer by extracting water that contains nitrates and remediating it by applying to agricultural reuse operations. The project includes anti-degradation analyses, vadose zone monitoring, construction and operation of monitoring wells, construction and operation of extraction wells, and construction and operation of irrigation equipment in Sections 14 and 16.

Agency Name: Los Angeles County Sanitation District (LACSD)

Joint Agencies: None

Contact Name: Brian Dietrick
 Agency: LACSD
 Address: 1955 Workman Mill Road
 City: Whittier State: CA Zip: 90601
 Phone: 562-908-4288

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWMP Program Guidelines Applicable Program Preferences

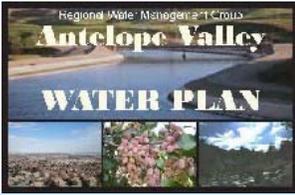
- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities

IRWM Plan Program Guidelines Water Management Strategies*

- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- Assist in meeting Delta Water Quality Objectives;



Antelope Valley IRWM Plan High Priority Projects

Palmdale Water Reclamation Plant Existing Effluent Management Site

- | | |
|--|--|
| <input type="checkbox"/> Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development. | <input type="checkbox"/> Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan; |
| <input type="checkbox"/> Address environmental justice concerns; and | <input checked="" type="checkbox"/> Assist in achieving one or more goals of the CALFED Bay-Delta Program. |

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

1. How Project Meets Plan Goals and Objectives

The proposed upgrades to the Palmdale WRP will maximize the beneficial reuse of wastewater to agricultural and other end users, protect the aquifer from contamination, help to maintain agricultural land use within the region, and improve integrated land use planning to support water management.

2. Project Need

The proposed upgrades to the Palmdale WRP existing effluent management sites will improve overall water quality in the Region and maximize the beneficial reuse of wastewater to agricultural and other end users.

3. Scientific Basis for Project:

Los Angeles Sanitation District (LACSD). October 2005. Final Palmdale Water Reclamation Plant 2025 Facilities Plan and Environmental Impact Report.

4. Location

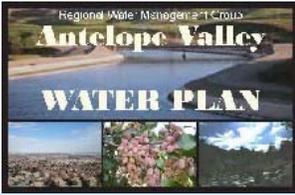
39300 30th Street East, Palmdale, CA 93550

5. Integration with Other Projects

This project will integrate with other projects that propose to use recycled water in the future from the Palmdale WRP.

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: TBD
- (b) Water Quality: Removal of nitrates by phyto-remediation.



Antelope Valley IRWM Plan
High Priority Projects

Palmdale Water Reclamation Plant Existing Effluent Management Site

- (c) Flood Management: NA
- (d) Environmental Resource Management: NA
- (e) Land Use Management: NA

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: PWRP 2025 Facilities Plan and EIR certified in October 2005.
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: Yes
- (c) Permitting: TBD
- (d) Land Acquisition: NA
- (e) UWMP Adopted (if applicable): Yes, 2005 Antelope Valley Integrated Urban Water Management Plan.
- (f) GWMP Adopted (if applicable) or Adjudication: NA
- (g) Environmental Mitigation Needed: NA

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation			
(d) Construction/Implementation			
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]			
(g) Construction Administration			
(h) Other (Explain):			
(i) Construction/Implementation Contingency			
(j) Grant Total [Sum (f) through (i) for each column]			

**Source(s) of funds for Non-State Share (Funding Match):*

Agency	Estimated Contribution
TBD	TBD
Total	TBD

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning		October 2005
CEQA (if applicable)		October 2005
Permitting (if applicable)	TBD	TBD
Design	TBD	TBD
Construction	TBD	TBD

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

LACSD. Final PWRP 2025 Facilities Plan and EIR. October 2005.



Antelope Valley IRWM Plan High Priority Projects

Partial Well Abandonment of Groundwater Wells for Arsenic Mitigation Project

This project includes a combination of LACWWD 40's and QHWD's "Partial Well Abandonment of Groundwater Wells for Arsenic Mitigation" projects. WQ-4 proposes arsenic mitigation of six groundwater wells. The proposed method involves using grout with extremely small pour space to seal off localized regions of the well that contain higher levels of arsenic, resulting in an isolation of arsenic located in specific levels of strata and an overall decrease in contamination. This project will benefit several lower income areas that are served by these wells.

On January 23, 2006 the Environmental Protection Agency lowered the acceptable amount of arsenic from 50 parts per billion to 10 parts per billion. To mitigate this problem we are proposing to pull the pump from this well and "micro-grout" the region of strata that contains higher levels of arsenic. This has proven to be a cost-effective non-treatment method for dealing with the higher levels of arsenic located in one level of strata.



Agency Name: Los Angeles County Waterworks District 40 (LACWWD 40) and Quartz Hill Water District (QHWD)

Joint Agencies: None

Contact Name: Chad Reed, General Manager
 Agency: QHWD
 Address: 42141 North 50th Street West
 City: Quartz Hill State: CA Zip: 93536
 Phone: 661-943-3170

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWM Plan Program Guidelines Water Management Strategies*

- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers



Antelope Valley IRWM Plan High Priority Projects

Partial Well Abandonment of Groundwater Wells for Arsenic Mitigation Project

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities
- Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development.

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- Assist in meeting Delta Water Quality Objectives;
- Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan;
- Address environmental justice concerns; and
- Assist in achieving one or more goals of the CALFED Bay-Delta Program.

1. How Project Meets Plan Goals and Objectives

This projects meets the plan goals and objectives by protecting the aquifer from contamination and including water quality projects that serve disadvantaged communities.

2. Project Need

This project is needed to remediate groundwater contaminated by arsenic in a cost-effective manner. This project will be beneficial to several different lower income regions due to the locations of the wells.

3. Scientific Basis for Project:

Since the region of strata that contains higher levels of arsenic is very localized regions of the well can be “sealed” off by using grout that contains a very small pour space. Once this region(s) is effectively sealed off from the well screens arsenic levels decrease since it is not present in as high of doses in other strata.



Antelope Valley IRWM Plan
High Priority Projects

Partial Well Abandonment of Groundwater Wells for Arsenic Mitigation Project

4. Location

Various wells located throughout the region.

5. Integration with Other Projects

LACWWD 40 is already using this method to remedy the higher levels of arsenic in five additional well sites. The integration of QHWD’s sites with LACWWD 40’s sites is a natural integration.

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: Supplies approximately 130 AF to the district (QHWD)
- (b) Water Quality: This water is non-potable without treatment or partial abandonment
- (c) Flood Management: NA
- (d) Environmental Resource Management: NA
- (e) Land Use Management: NA

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: NA
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: TBD
- (c) Permitting: Completed
- (d) Land Acquisition: Completed
- (e) UWMP Adopted (if applicable): Yes, 2005 Antelope Valley Integrated Urban Water Management Plan.
- (f) GWMP Adopted (if applicable) or Adjudication: NA
- (g) Environmental Mitigation Needed: Purchase of 0.12 acres of mitigation wetlands (QHWD)

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation			
(d) Construction/Implementation			
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]			
(g) Construction Administration			
(h) Other (Explain):			
(i) Construction/Implementation Contingency			
(j) Grant Total [Sum (f) through (i) for each column]	\$0.1M	\$1.4M	\$1.5M

*Source(s) of funds for Non-State Share (Funding Match):

Agency	Estimated Contribution
TBD	\$0.1M
Total	\$0.1M



Antelope Valley IRWM Plan
High Priority Projects

Partial Well Abandonment of Groundwater Wells for Arsenic Mitigation Project

9. Project Schedule

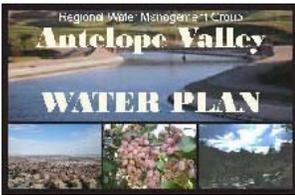
Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning	Late 2006	Early 2007
CEQA (if applicable)		
Permitting (if applicable)		
Design	Early 2007	Early 2007
Construction	Early 2007	Late 2007

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

NA

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Antelope Valley IRWM Plan High Priority Projects

Rosamond Community Service District's (RCSD) Waste Water Pipeline

Rosamond Community Service District's (RCSD) Waste Water Pipeline Project would include placing a 36-inch wastewater pipeline from the Los Angeles County Sanitation District (LACSD) to RCSD's wastewater treatment plant. The total distance would be approximately 15 miles. This project would provide for a possible expansion of RCSD's recycled water services beyond the 0.5 mgd expansion in order to provide more recycled water to the RCSD service area in a quicker period of time.

Agency Name: Rosamond Community Service District (RCSD)

Joint Agencies: None

Contact Name: Claud Seal
 Agency: RCSD
 Address: 3179 35th Street
 City: Rosamond State: CA Zip: 93560
 Phone: 661-256-3411

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWM Plan Program Guidelines Water Management Strategies*

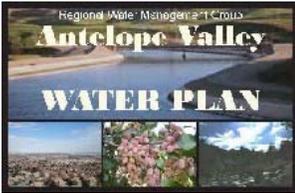
- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits
- Support and improve local and regional water supply reliability
- Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards
- Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance
- Include safe drinking water and water quality projects that serve disadvantaged communities

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues;
- Implementation of Total Maximum Daily Loads that are established or under development;
- Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies;
- Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan;
- Assist in meeting Delta Water Quality Objectives;



Antelope Valley IRWM Plan High Priority Projects

Rosamond Community Service District's (RCSD) Waste Water Pipeline

- | | |
|--|---|
| <input type="checkbox"/> Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development. | <input checked="" type="checkbox"/> Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan; |
| <input type="checkbox"/> Address environmental justice concerns; and | <input checked="" type="checkbox"/> Assist in achieving one or more goals of the CALFED Bay-Delta Program. |

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

1. How Project Meets Plan Goals and Objectives

The project will help to maximize beneficial reuse of wastewater and increase the reliability of the Region's water supply through infrastructure upgrades.

2. Project Need

The project is needed to bring recycled water to the Kern County portion of the Antelope Valley.

3. Scientific Basis for Project:

NA

4. Location

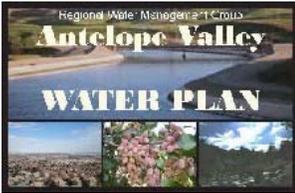
3179 35th Street, Rosamond

5. Integration with Other Projects

This project integrates with the Antelope Valley Recycled Water Project Phase 2 (RW-1), Lancaster Water Reclamation Plant Stage V Expansion (WQ-1), Palmdale Water Reclamation Plant Existing Effluent Management Site (WQ-2), and Palmdale Water Reclamation Plant Stage V Expansion (WQ-3), by connecting to their systems.

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: 0 AFY
- (b) Water Quality: TBD
- (c) Flood Management: NA



Antelope Valley IRWM Plan
High Priority Projects

Rosamond Community Service District's (RCSD) Waste Water Pipeline

- (d) Environmental Resource Management: NA
- (e) Land Use Management: NA

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: TBD
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: Yes
- (c) Permitting: TBD
- (d) Land Acquisition: NA
- (e) UWMP Adopted (if applicable): NA
- (f) GWMP Adopted (if applicable) or Adjudication: NA
- (g) Environmental Mitigation Needed: TBD

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation			
(d) Construction/Implementation			
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]			
(g) Construction Administration			
(h) Other (Explain):			
(i) Construction/Implementation Contingency			
(j) Grant Total [Sum (f) through (i) for each column]	\$1.3M	\$11.7M	\$13.0M

**Source(s) of funds for Non-State Share (Funding Match):*

Agency	Estimated Contribution
RCSD	\$1.3M
Total	\$1.3M

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning	TBD	TBD
CEQA (if applicable)	TBD	TBD
Permitting (if applicable)	TBD	TBD
Design	TBD	TBD
Construction	TBD	TBD

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

NA



Antelope Valley IRWM Plan
High Priority Projects

Water Supply Stabilization Project- Westside Project

This project is an imported water stabilization program that utilizes SWP water delivered to the Antelope Valley's westside for groundwater recharge and supplemental supply required for the Region during summer peaking demand and anticipated dry years. This project increases imported water supply reliability in the Antelope Valley by developing storage and allowing for recharge. It includes the design and construction of additional facilities necessary for the delivery of untreated water for direct recharge (percolation basins) or indirect (inlieu) recharge, and for wells and a pipeline for treated water conveyance. The project is considered an immediate water banking and groundwater recharge opportunity. It also incorporates the use of large acreage of farm land for spreading of water and rotating farm crops to increase percolation.

Components of the Westside Project include but are not limited to: drilling and equipment of 6 deep wells between Avenue A and Rosamond Boulevard, 70th to 140th Street West (RCSD's "Deep Wells to Recapture Banked Water Project"); placing a new 36-inch pipeline on Gaskell Road, from 60th Street to 140th Street to transport water from well fields (RCSD's "Gaskell Road Pipeline Project"); and purchasing water spreading basins land in West Kern County from Avenue A to Rosamond B (RCSD "Purchasing Spreading Basin Land Project").

Agency Name: Antelope Valley-East Kern Water Agency (AVEK)

Joint Agencies: Antelope Valley State Water Contractors Association, Rosamond Community Services District (RCSD), Los Angeles County Waterworks District 40 (LACWWD 40)

Contact Name: Tom Barnes
 Agency: AVEK
 Address: 6500 W. Avenue
 City: Palmdale State: CA Zip: 93550
 Phone: 661-943-3201

AV IRWM Objectives

- Provide reliable water supply to meet the Region's expected demand between now (2010) and 2035.
- Establish a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries.
- Stabilize groundwater levels at current conditions.
- Provide drinking water that meets customer expectations.
- Protect aquifer from contamination.
- Protect natural streams and recharge areas from contamination.
- Maximize beneficial reuse of wastewater.
- Reduce negative impacts of stormwater, urban runoff, and nuisance water.
- Preserve open space and natural habitats that protect and enhance water resources and species in the region.
- Maintain agricultural land use within the Region.
- Meet growing demand for recreational space.
- Improve integrated land use planning to support water management.

IRWM Plan Program Guidelines Water Management Strategies*

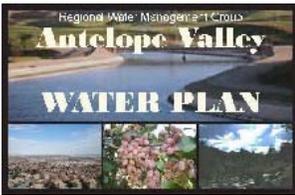
- Ecosystem Restoration*
- Environmental and habitat protection and improvement*
- Water Supply Reliability*
- Flood management*
- Groundwater management*
- Recreation and public access*
- Storm water capture and management*
- Water conservation*
- Water quality protection and improvement*
- Water recycling*
- Wetlands enhancement and creation*
- Conjunctive use
- Desalination
- Imported water
- Land use planning
- NPS pollution control
- Surface storage
- Watershed planning
- Water and wastewater treatment
- Water transfers

IRWMP Program Guidelines Applicable Program Preferences

- Include integrated projects with multiple benefits

Statewide Priorities Summary

- Reduce conflict between water users or resolve water rights



Antelope Valley IRWM Plan High Priority Projects

Water Supply Stabilization Project- Westside Project

- | | |
|--|---|
| <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Support and improve local and regional water supply reliability <input type="checkbox"/> Contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards <input type="checkbox"/> Eliminate or significantly reduce pollution in impaired waters and sensitive habitat areas, including areas of special biological significance <input type="checkbox"/> Include safe drinking water and water quality projects that serve disadvantaged communities <input checked="" type="checkbox"/> Include groundwater management and recharge projects that are located 1) in San Bernardino or Riverside counties, 2) outside of the service area of the Metropolitan Water District of Southern, California, or 3) within one mile of established residential and commercial development. | <ul style="list-style-type: none"> <input type="checkbox"/> disputes, including interregional water rights issues; <input type="checkbox"/> Implementation of Total Maximum Daily Loads that are established or under development; <input checked="" type="checkbox"/> Implementation of Regional Water Quality Control Board (RWQCB) Watershed Management Initiative Chapters, plans, and policies; <input type="checkbox"/> Implementation of the SWRCB's Non-point Source (NPS) Pollution Plan; <input checked="" type="checkbox"/> Assist in meeting Delta Water Quality Objectives; <input type="checkbox"/> Implementation of recommendations of the floodplain management task force, desalination task force, recycling task force, or state species recovery plan; <input type="checkbox"/> Address environmental justice concerns; and <input checked="" type="checkbox"/> Assist in achieving one or more goals of the CALFED Bay-Delta Program. |
|--|---|

AB 3030 Guidelines

- The control of saline water intrusion.
- Identification and management of wellhead protection areas and recharge areas
- Regulation of the migration of contaminated groundwater.
- The administration of a well abandonment and well destruction program.
- Mitigation of conditions of overdraft.
- Replenishment of groundwater extracted by water producers.
- Monitoring of groundwater levels and storage.
- Facilitating conjunctive use operations.
- Identification of well construction policies.
- The construction and operation by the local agency of groundwater contamination cleanup, recharge, storage, conservation, water recycling and extraction projects.
- The development of relationships with state and federal regulatory agencies.
- The review of land use plans and coordination with land use planning agencies to assess activities which create a reasonable risk of groundwater contamination.

1. How Project Meets Plan Goals and Objectives

The project meets the plans goals and objectives by increasing the regions water supply reliability, establishing a contingency plan to meet water supply needs of the Region during a plausible disruption of SWP water deliveries, stabilize groundwater levels, preserve open space, maintain agricultural land use, and improve integrated land use planning to support water management.

2. Project Need

Establishing a local water banking program would allow for the storage of SWP that AVEK currently is unable to store due to capacity constraints. Additionally, establishment of a regional groundwater bank by local entities would ensure that the benefits from implementation, including economic benefits, would remain within the Antelope Valley, thereby benefiting the community.

3. Scientific Basis for Project:

The AVSWCA intends to issue an RFP for engineering services related to this project.



Antelope Valley IRWM Plan
High Priority Projects

Water Supply Stabilization Project- Westside Project

4. Location

The proposed location for the first phase of the project will be in eastern Kern County, adjacent to AVEK's West Feeder pipeline, along Gaskell Street, approximately within 70th Street West and 120th Street West.

5. Integration with Other Projects

The project can be integrated with several other types of projects including existing (or proposed) treated water facilities, recycled water recharge, or stormwater collection and reuse. Planned pipeline and recharge integration with other projects will benefit the whole of the region by supplying water for direct use or for blending as required with recycled (or storm) water recharge. Possible integration with Upper Amargosa Creek Recharge Flood Control and Riparian Habitat Restoration Project (WS-1).

6. Estimation/Measurement of Project Benefits (Quantify if possible)

- (a) Water Supply: 40,400 to 42,600 AFY
- (b) Water Quality: TBD
- (c) Flood Management: NA
- (d) Environmental Resource Management: NA
- (e) Land Use Management: TBD

7. Readiness to Proceed/Eligibility

- (a) CEQA Status: CEQA process has been initiated.
- (b) Local Funding Match Available at Minimum Percentage and Funding Source: Yes, Details TBD.
- (c) Permitting: TBD
- (d) Land Acquisition: Land currently in escrow.
- (e) UWMP Adopted (if applicable): Yes, 2005 Antelope Valley Integrated Urban Water Management Plan
- (f) GWMP Adopted (if applicable) or Adjudication: GWMP adopted when AV IRWM Plan adopted.
- (g) Environmental Mitigation Needed: TBD

8. Estimated Project Cost

Budget Category	Non-State Share* (Funding Match)	Requested State Share (Grant Funding)	Total
(a) Direct Project Administrative Costs			
(b) Land Purchase/Easement			
(c) Planning/Design/Engineering/Environmental Documentation			
(d) Construction/Implementation			
(e) Environmental Compliance/Mitigation/Enhancement			
(f) Project Summary [Sum (a) through (e) for each column]			
(g) Construction Administration			
(h) Other (Explain):			
(i) Construction/Implementation Contingency			
(j) Grant Total [Sum (f) through (i) for each column]	\$223.2M	\$6.8M	\$230.0M



Antelope Valley IRWM Plan
High Priority Projects

Water Supply Stabilization Project- Westside Project

**Source(s) of funds for Non-State Share (Funding Match):*

Agency	Estimated Contribution
TBD – AVEK	\$200M
TBD	\$23.2M
Total	\$223.2M

9. Project Schedule

Project Phase	Estimated Start Date*	Estimated Completion Date*
Planning		
CEQA (if applicable)	2007	
Permitting (if applicable)		
Design		
Construction		2009

* Examples: Quarter/year (e.g Q3/2005) or early 2005, mid 2005, late 2005; as specific as has been defined.

10. Additional Studies Available

NA

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Appendix G

Electronic List of Projects
(To Be Provided In Final)

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Appendix H

Letters of Support

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**AVSWCA**

Antelope Valley State Water Contractors Association

COMMISSIONERS**George Lane****Andy Rutledge****Leo Thibault****Barbara Hogan****Linda Godin****Richard "Dick" Wells****c/o Palmdale Water District****2029 East Avenue Q****Palmdale, CA 93550****661-947-4111 x103**

July 26, 2007

Ms. Tracie Billington
Department of Water Resources
Division of Planning and Local Assistance
P.O. Box 942836
Sacramento, CA 94236-0001

Ms. Shahla Farahnak
State Water Resources Control Board
Division of Financial Assistance
1001 I Street, 16th Floor
Sacramento, CA 95814

ATTN: Prop. 50 IRWM Program

ATTN: Prop. 50 IRWM Program

**RE: SUPPORT FOR GRANT FUNDING OF THE ANTELOPE VALLEY
INTEGRATED REGIONAL WATER MANAGEMENT PROGRAM
(PROPOSITION 50, ROUND 2, IRWMP)**

On behalf of the Antelope Valley State Water Contractors Association, I would like to express our support of the Antelope Valley Region's application for Proposition 50 Round 2 funding under the Integrated Regional Water Management (IRWM) Program.

Several years ago, leaders and agencies in the Antelope Valley Region recognized the need for regional cooperation and planning with respect to water resources. They agreed that water resource needs in the Region are highly interconnected and require a broad and integrated perspective in order to provide efficient and effective services throughout the Valley to meet demands. In an effort to represent the broad interests within the Antelope Valley Region, our agency along with ten others joined to form a Regional Water Management Group (RWMG) to work together and create an Integrated Regional Water Management (IRWM) Plan.

In January 2007, the RWMG and other community participants set a primary objective to develop a broadly supported water resource management plan that defines a meaningful course of action to meet the expected demands for water and other resources within the entire Antelope Valley Region through 2035. This IRWM Plan addresses how to make wise use of all available funding sources, with an emphasis on improving regional self-sufficiency. This IRWM Plan also creates opportunities for new partnerships and collaboration as well as documenting a collective vision to meet water resource needs and improve the ecological health of the Antelope Valley Region.

Ms. Tracie Billington, DWR
Division of Planning and Local Assistance

Ms. Shahla Farahnak SWRCB
Division of Financial Assistance

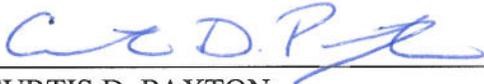
-2-

July 26, 2007

This Application includes a plan for implementation of seven (7) projects all targeted at reducing the mismatch between supply and demand projected for the Region by 2035. The availability of existing water supplies would be increased through two (2) projects of the Application; one which would increase surface water supply and another that would improve natural recharge to the groundwater basin while also providing environmental and flood management benefits. Other projects included in the Application would facilitate the use of recycled water throughout the Region as well as improve water quality in the groundwater through four (4) interdependent recycled water projects, thereby providing a new water supply to the Region. The final project in the Application would reduce regional water demand by as much as ten (10) percent by 2035 through a regional water conservation program. Overall, the Application could provide approximately 72,200 AFY of water and 115 acres of open space to the Region, in addition to improved water quality, environmental management, and flood management.

We urge your thoughtful consideration of the Antelope Valley Integrated Regional Water Management Program.

Very truly yours,



CURTIS D. PAXTON
Interim General Manager

CDP/dd

cc: J. Lauren Everett, Kennedy/Jenks Consultants,
1000 Hill Road, Suite 200, Ventura, CA 93003



RECEIVED

JUL 24 2007

KENNEDY, JENKS CONSULTANTS
VENTURA, CA

July 20, 2007

Ms. Shahla Farahnak
State of California
State Water Resources Control Board
Division of Financial Assistance
1001 I Street, 16th Floor
Sacramento, CA 95814

Attn: Prop. 50 IRWM Program

Subject: Support for the Antelope Valley Integrated Regional Water
Management Plan

*Antelope
Valley Chapter*

Building Industry Association
of Southern California

104 East Avenue K-4, Suite B
Lancaster, California 93535
661.949.6857
fax 661.949.6090

Dear Ms. Farahnak:

On behalf of the Antelope Valley Building Industry Association of Southern California ("AVBIA/BIASC"), representing nearly 300 member companies, consisting of homebuilders, trade contractors and affiliated industries providing the dream of homeownership in the Antelope Valley region, we would like to express our support of the Antelope Valley Region's Integrated Regional Water Management (IRWM) Plan.

The Antelope Valley Region of California is home to over 444,000 people living in many different communities. Residents within this Region have experienced tremendous changes over the past generation due to a rapid increase in population influenced by nearby large cities. Current forecasts of population growth suggest even larger changes will occur before 2035. Water managers and stakeholders in the Antelope Valley Region began to recognize that some of the challenges being faced by residents could not be addressed using a single-agency or single-purpose perspective. They agreed that water resource needs in the Region are highly interconnected and require a broad and integrated perspective in order to provide efficient and effective services throughout the Antelope Valley Region.

Acknowledging the need for a more comprehensive view, proactive stakeholders (including agencies with an interest in water and other resource management) in the Antelope Valley Region began meeting in May 2006 to improve communication and explore opportunities to leverage our resources. Early in their discussions, the stakeholders decided to develop a plan with a regional focus designed to identify a set of integrated solutions addressing goals for water supply, water quality, habitat improvement, and increased recreational parks and open space.



*Antelope
Valley Chapter*

Building Industry Association
of Southern California

104 East Avenue K-4, Suite B
Lancaster, California 93535
661.949.6857
fax 661.949.6090

The AVBIA feels this IRWM Plan contains a viable action plan to provide a wide range of crucial water-related services necessary to support the well-being of people living in this unique and vibrant part of Southern California. The IRWM Plan identifies existing key water-related challenges being faced by the residents of the Antelope Valley Region, along with projections of how these challenges will change by 2035. In response to current and expected challenges, this IRWM Plan provides a thorough inventory of possible actions to address the challenges, along with estimated costs and benefits of implementing each action. This IRWM Plan documents an extensive collaborative process that led to the selection of a robust combination of actions that will be implemented cooperatively by the stakeholders in the Antelope Valley Region.

We urge your thoughtful consideration of the Antelope Valley Integration Regional Water Management Plan.

Very truly yours,

Antelope Valley Chapter of BIA Southern California


Gretchen Gutierrez
Executive Officer

Cc: Ms. Tracie Billington, State of California, Dept. of Water Resources



July 20, 2007

Ms. Tracie Billington
State of California
Department of Water Resources
Division of Planning and Local Assistance
P.O. Box 942836
Sacramento, CA 94236-0001

Attn: Prop. 50 IRWM Program

Subject: Support for the Antelope Valley Integrated Regional Water
Management Plan

*Antelope
Valley Chapter*

Building Industry Association
of Southern California

104 East Avenue K-4, Suite B
Lancaster, California 93535
661.949.6857
fax 661.949.6090

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Acknowledging the need for a more comprehensive view, proactive stakeholders (including agencies with an interest in water and other resource management) in the Antelope Valley Region began meeting in May 2006 to improve communication and explore opportunities to leverage our resources. Early in their discussions, the stakeholders decided to develop a plan with a regional focus designed to identify a set of integrated solutions addressing goals for water supply, water quality, habitat improvement, and increased recreational parks and open space.



*Antelope
Valley Chapter*

Building Industry Association
of Southern California

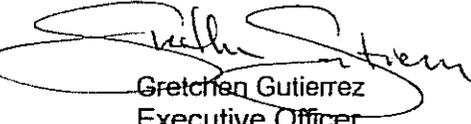
104 East Avenue K-4, Suite B
Lancaster, California 93535
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We urge your thoughtful consideration of the Antelope Valley Integration Regional Water Management Plan.

Very truly yours,

Antelope Valley Chapter of BIA Southern California



Gretchen Gutierrez
Executive Officer

Cc: Ms. Shahla Farahnak, State of California, State Resources Control Board, Div.
Financial Assistance



July 27, 2007

Ms. Shahla Farahnak
 State of California
 State Water Resources Control Board
 Division of Financial Assistance
 1001 I Street, 16th Floor
 Sacramento, CA 95814

RECEIVED

JUL 30 2007

KENNEDY JENKS CONSULTANTS
 VENTURA, CA

Attn: Prop. 50 IRWM Program

Subject: Support for the Antelope Valley Integrated Regional Water Management Plan

On behalf of the Antelope Valley Board of Trade, I would like to express our support of the Antelope Valley Region's Integrated Regional Water Management (IRWM) Plan.

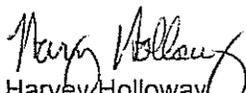
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We feel this IRWM Plan contains a viable action plan to provide a wide range of crucial water-related services necessary to support the well-being of people living in this unique and vibrant part of Southern California. The IRWM Plan identifies existing key water-related challenges being faced by the residents of the Antelope Valley Region, along with projections of how these challenges will change by 2035. In response to current and expected challenges, this IRWM Plan provides a thorough inventory of possible actions to address the challenges, along with estimated costs and benefits of implementing each action. This IRWM Plan documents an extensive collaborative process that led to the selection of a robust combination of actions that will be implemented cooperatively by the stakeholders in the Antelope Valley Region.

We urge your thoughtful consideration of the Antelope Valley Integration Regional Water Management Plan.

Very truly yours,

Antelope Valley Board of Trade


 Harvey Holloway
 President

Enclosure

cc: Lauren Everett, Kennedy/Jenks Consultants
 1000 Hill Road, Suite 200, Ventura, CA 93003



July 27, 2007

Ms. Tracie Billington
State of California
Department of Water Resources
Division of Planning and Local Assistance
P.O. Box 942836
Sacramento, CA 94236-0001

Attn: Prop. 50 IRWM Program

Subject: Support for the Antelope Valley Integrated Regional Water Management Plan

On behalf of the Antelope Valley Board of Trade, I would like to express our support of the Antelope Valley Region's Integrated Regional Water Management (IRWM) Plan.

The Antelope Valley Region of California is home to over 444,000 people living in many different communities. Residents within this Region have experienced tremendous changes over the past generation due to a rapid increase in population influenced by nearby large cities. Current forecasts of population growth suggest even larger changes will occur before 2035. Water managers and stakeholders in the Antelope Valley Region began to recognize that some of the challenges being faced by residents could not be addressed using a single-agency or single-purpose perspective. They agreed that water resource needs in the Region are highly interconnected and require a broad and integrated perspective in order to provide efficient and effective services throughout the Antelope Valley Region. Acknowledging the need for a more comprehensive view, proactive stakeholders (including agencies with an interest in water and other resource management) in the Antelope Valley Region began meeting in May 2006 to improve communication and explore opportunities to leverage our resources. Early in their discussions, the stakeholders decided to develop a plan with a regional focus designed to identify a set of integrated solutions addressing goals for water supply, water quality, habitat improvement, and increased recreational parks and open space.

We feel this IRWM Plan contains a viable action plan to provide a wide range of crucial water-related services necessary to support the well-being of people living in this unique and vibrant part of Southern California. The IRWM Plan identifies existing key water-related challenges being faced by the residents of the Antelope Valley Region, along with projections of how these challenges will change by 2035. In response to current and expected challenges, this IRWM Plan provides a thorough inventory of possible actions to address the challenges, along with estimated costs and benefits of implementing each action. This IRWM Plan documents an extensive collaborative process that led to the selection of a robust combination of actions that will be implemented cooperatively by the stakeholders in the Antelope Valley Region.

We urge your thoughtful consideration of the Antelope Valley Integration Regional Water Management Plan.

Very truly yours,

Antelope Valley Board of Trade


Harvey Holloway
President

Enclosure

cc: Lauren Everett, Kennedy/Jenks Consultants
1000 Hill Road, Suite 200, Ventura, CA 93003



Los Angeles County Department of Regional Planning

Planning for the Challenges Ahead



Bruce W. McClendon, FAICP
Director of Planning

July 23, 2007

Ms. Tracie Billington
State of California
Department of Water Resources
Division of Planning and Local Assistance
P.O. Box 942836
Sacramento, CA 94236-0001

Re: Support for the Antelope Valley Integrated Regional Water Management Plan

Dear Ms. Billington,

On behalf of the Los Angeles County Department of Regional Planning, I would like to express our support of the Antelope Valley Region's Integrated Regional Water Management (IRWM) Plan.

The Antelope Valley Region of California is home to over 444,000 people living in many different communities. Residents within this Region have experienced tremendous changes over the past generation due to a rapid increase in population influenced by nearby large cities. Current forecasts of population growth suggest even larger changes will occur before 2035. Water managers and stakeholders in the Antelope Valley Region began to recognize that some of the challenges being faced by residents could not be addressed using a single-agency or single-purpose perspective. They agreed that water resource needs in the Region are highly interconnected and require a broad and integrated perspective in order to provide efficient and effective services throughout the Antelope Valley Region. Acknowledging the need for a more comprehensive view, proactive stakeholders (including agencies with an interest in water and other resource management) in the Antelope Valley Region began meeting in May 2006 to improve communication and explore opportunities to leverage our resources. Early in their discussions, the stakeholders decided to develop a plan with a regional focus designed to identify a set of integrated solutions addressing goals for water supply, water quality, habitat improvement, and increased recreational parks and open space.

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Very truly yours,

DEPARTMENT OF REGIONAL PLANNING

A handwritten signature in black ink, appearing to read "Bruce W. McClendon". The signature is fluid and cursive, with the first name "Bruce" being the most prominent part.

Bruce W. McClendon
Director of Planning

BWM:GHH



Los Angeles County
Department of Regional Planning

Planning for the Challenges Ahead



Bruce W. McClendon, FAICP
Director of Planning

July 23, 2007

Ms. Shahla Farahnak
State of California
State Water Resources Control Board
Division of Financial Assistance
1001 I Street, 16th Floor
Sacramento, CA 95814

Re: Support for the Antelope Valley Integrated Regional Water Management Plan

Dear Ms. Farahnak

On behalf of the Los Angeles County Department of Regional Planning, I would like to express our support of the Antelope Valley Region's Integrated Regional Water Management (IRWM) Plan.

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DEPARTMENT OF REGIONAL PLANNING

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Bruce W. McClendon
Director of Planning

BWM:GHH



Los Angeles County Department of Regional Planning

Planning for the Challenges Ahead



Bruce W. McClendon, FAICP
Director of Planning

July 23, 2007

Ms. Tracie Billington
State of California
Department of Water Resources
Division of Planning and Local Assistance
P.O. Box 942836
Sacramento, CA 94236-0001

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Bruce W. McClendon
Director of Planning

BWM:GHH



Los Angeles County
Department of Regional Planning

Planning for the Challenges Ahead



Bruce W. McClendon, FAICP
Director of Planning

July 23, 2007

Ms. Shahla Farahnak
State of California
State Water Resources Control Board
Division of Financial Assistance
1001 I Street, 16th Floor
Sacramento, CA 95814

Re: Support for the Antelope Valley Integrated Regional Water Management Plan

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DEPARTMENT OF REGIONAL PLANNING

A handwritten signature in black ink, appearing to read 'Bruce W. McClendon', with a long horizontal flourish extending to the right.

Bruce W. McClendon
Director of Planning

BWM:GHH

BOARD OF DIRECTORS

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PRESIDENT

CHARLES YINGST

VICE PRESIDENT

FRANCES YOUNG

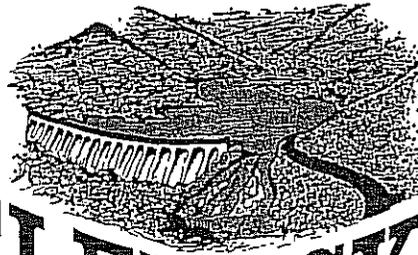
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BARBARA HOGAN

TREASURER

LARRY CONNELLY

DIRECTOR



**LITTLE ROCK
CREEK
IRRIGATION DISTRICT**

BRAD BONES

GENERAL MANAGER

LEMIEUX & O'NEILL

ATTORNEYS

RECEIVED

JUL 20 2007

KENNEDY JENKS CONSULTANTS
VENTURA, CA

July 17, 2007

Ms. Tracie Billington
Department of Water Resources
Division of Planning and Local Assistance
P.O. Box 942836
Sacramento, CA 94236-0001

Ms. Shahla Farahnak
State Water Resources Control Board
Division of Financial Assistance
1001 I Street, 16th Floor
Sacramento, CA 95814

Attn: Prop. 50 IRWM Program

Attn: Prop. 50 IRWM Program

Subject: Support for Grant Funding of the Antelope Valley Integrated Regional Water Management Program (Proposition 50, Round 2, IRWMP)

On behalf of Littlerock Creek Irrigation District, I would like to express our support of the Antelope Valley Region's application for Proposition 50 Round 2 funding under the Integrated Regional Water Management (IRWM) Program.

Several years ago leaders and agencies in the Antelope Valley Region recognized the need for regional cooperation and planning with respect to water resources. They agreed that water resource needs in the Region are highly interconnected and require a broad and integrated perspective in order to provide efficient and effective services throughout the Valley, to meet demands. In an effort to represent the broad interests within the Antelope Valley Region, our agency along with ten others joined to form a Regional Water Management Group (RWMG) to work together and create an Integrated Regional Water Management (IRWM) Plan.

In January 2007, the RWMG and other community participants set a primary objective to develop a broadly supported water resource management plan that defines a meaningful course of action to meet the expected demands for water and other resources within the entire Antelope Valley Region through 2035. This IRWM Plan addresses how to make wise use of all available funding sources, with an emphasis on improving regional self-sufficiency. This IRWM Plan creates opportunities for new partnerships and collaboration as well as documents a collective vision to meet water resource needs and improve the ecological health of the Antelope Valley Region.

Page 2

This Application includes a plan for implementation of 7 projects all targeted at reducing the mismatch between supply and demand projected for the Region by 2035. Availability of existing water supplies would be increased through 2 projects of the Application; one which would increase surface water supply and another that would improve natural recharge to the groundwater basin while also providing environmental and flood management benefits. The Application would facilitate the use of recycled water throughout the Region as well as improve water quality in the groundwater through 4 interdependent recycled water projects, thereby providing a new water supply to the Region. Additionally, the Application would reduce regional water demand by as much as 10 percent by 2035 through a regional water conservation program. Overall, the Application could provide approximately 72,200 AFY of water and 115 acres of open space to the Region, in addition to improved water quality, environmental management, and flood management.

We urge your thoughtful consideration of the Antelope Valley Integration Regional Water Management Program.

Very truly yours,

A handwritten signature in black ink that reads "Brad Bonjes". The signature is written in a cursive, slightly slanted style.

Brad Bonjes
General Manager

cc: J. Lauren Everett, Kennedy/Jenks Consultants, 1000 Hill Road, Suite 200, Ventura, CA 93003



22450 Headquarters Drive ♦ Apple Valley, California 92307
Phone (760) 946-7000 ♦ Fax (760) 240-2642 ♦ www.mojavewater.org

July 17, 2007

Ms. Tracie Billington
State of California
Department of Water Resources
Division of Planning and Local Assistance
P.O. Box 942836
Sacramento, CA 94236-0001

Ms. Shahla Farahnak
State of California
State Water Resources Control Board
Division of Financial Assistance
1001 I Street, 16th Floor
Sacramento, CA 95814

Attn: Prop. 50 IRWM Program

Attn: Prop. 50 IRWM Program

Subject: Support for the Antelope Valley Integrated Regional Water Management Plan
Boundary Description

On behalf of the Mojave Water Agency, I would like to express our support of the Antelope Valley Region's Integrated Regional Water Management (IRWM) Plan. The Mojave Water Agency IRWM Region is adjacent to the eastern boundary of the Antelope Valley Region.

As the IRWM Plan indicates, the Antelope Valley Region is defined by the Antelope Valley's key hydrologic features, bounded by the San Gabriel Mountains to the south and southwest, the Tehachapi Mountains to the northwest, and a series of hills and buttes that generally follow the San Bernardino County Line to the east, forming a well-defined triangular point at the Antelope Valley Region's western edge. This drainage basin boundary has been used to define the Antelope Valley in a number of USGS technical studies, including the USGS 1995 "Land Use and Water Use in the Antelope Valley." It is our understanding that the decision to use the drainage basin to define the Antelope Valley IRWM Region boundary was made to be consistent with several scientific studies of the Antelope Valley Region that have used this larger drainage basin boundary so that similar data sets could be utilized, and the boundary also included key agencies dealing with similar water management issues such as increasing populations, limited infrastructure, and increasing pumping costs with shared water resources.

We agree that the use of the drainage basin as the boundary for the Antelope Valley IRWM Plan is appropriate for that purpose and that it clearly defines the Region. There is no significant overlap between the Antelope Valley Region boundary and the Mojave

RE: Support for the Antelope Valley IRWM Plan Boundary Description

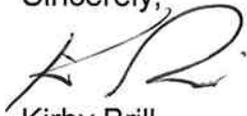
Page 2

July 17, 2007

Water Agency IRWM Plan boundary. The Antelope Valley Region boundary as defined does not cause any confusion or controversy in terms of overlapping areas.

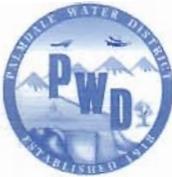
We urge your thoughtful consideration of the Antelope Valley Integration Regional Water Management Plan.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Brill", written over a light blue horizontal line.

Kirby Brill
General Manager

antelope valley irwm support ltr 071707.doc/kirby/vt



PALMDALE WATER DISTRICT

2029 East Avenue Q • Palmdale, California 93550 • Telephone (661) 947-4111

Fax (661) 947-8604

www.palmdalewater.org

Board of Directors

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Division 1

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LINDA J. GODIN
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RAUL FIGUEROA
Division 4

DAVID T. GOMEZ
Division 5

LAGERLOF, SENECAI, GOSNEY & KRUSE LLP
Attorneys



July 25, 2007

Ms. Tracie Billington
Department of Water Resources
Division of Planning and Local Assistance
P.O. Box 942836
Sacramento, CA 94236-0001

Ms. Shahla Farahnak
State Water Resources Control Board
Division of Financial Assistance
1001 I Street, 16th Floor
Sacramento, CA 95814

ATTN: Prop. 50 IRWM Program

ATTN: Prop. 50 IRWM Program

**RE: SUPPORT FOR GRANT FUNDING OF THE ANTELOPE VALLEY
INTEGRATED REGIONAL WATER MANAGEMENT PROGRAM
(PROPOSITION 50, ROUND 2, IRWMP)**

The Palmdale Water District Board of Directors would like to express our support of the Antelope Valley Region's application for Proposition 50 Round 2 funding under the Integrated Regional Water Management (IRWM) Program.

Several years ago, leaders and agencies in the Antelope Valley Region recognized the need for regional cooperation and planning with respect to water resources. They agreed that water resource needs in the Region are highly interconnected and require a broad and integrated perspective in order to provide efficient and effective services throughout the Valley to meet demands. In an effort to represent the broad interests within the Antelope Valley Region, our agency along with ten others joined to form a Regional Water Management Group (RWMG) to work together and create an Integrated Regional Water Management (IRWM) Plan.

In January 2007, the RWMG and other community participants set a primary objective to develop a broadly supported water resource management plan that defines a meaningful course of action to meet the expected demands for water and other resources within the entire Antelope Valley Region through 2035. This IRWM Plan

July 28, 2007

Ms. Tracie Billington
State of California
Department of Water Resources
Division of Planning and Local Assistance
P.O. Box 942836
Sacramento, CA 94236-0001

Ms. Shahla Farahnak
State of California
State Water Resources Control Board
Division of Financial Assistance
1001 I Street, 16th Floor
Sacramento, CA 95814

Attn: Prop. 50 IRWM Program

Attn: Prop. 50 IRWM Program

Subject: Support for the Antelope Valley Integrated Regional Water Management Plan

On behalf of the Sun Village Town Council, I would like to express our support for the community outreach efforts taken for, and of, the Antelope Valley Region's Integrated Regional Water Management (IRWM) Plan.

The outreach subcommittee members for the Antelope Valley IRWM Plan have traveled and presented the AV IRWM Plan at numerous community meetings throughout the Antelope Valley Region, all of which were disadvantaged, underrepresented, and/or traditionally isolated or rural communities. These meetings collectively reached hundreds of community members directly and many more indirectly when the information was shared by those attending, and the response has been overwhelmingly positive from all sects.

As a result of these direct interactions, the individual communities expressed appreciation at the genuine interest of the IRWM Plan group members to incorporate the ideas and willingness to listen to all community members as exhibited through the outreach meetings. These outreach efforts, motivated through the development of the IRWM Plan, have provided an invaluable step towards helping unify the very diverse Antelope Valley Region.

Our organization appreciates the efforts of the IRWM Plan outreach subcommittee, and we look forward to continued participation in the IRWM planning process.

We urge your thoughtful consideration of the Antelope Valley Integration Regional Water Management Plan.

Very truly yours,

Sun Village Town Council



Signer James Brooks
Title President

Enclosure

cc: The Sun Village Chamber of Commerce

Ms. Tracie Billington, DWR
Division of Planning and Local Assistance

Ms. Shahla Farahnak, SWRCB
Division of Financial Assistance

-2-

July 25, 2007

addresses **how to make** wise use of all available funding sources, with an emphasis on improving regional self-sufficiency. This IRWM Plan also creates opportunities for new partnerships and collaboration as well as documenting a collective vision to meet water resource needs and improve the ecological health of the Antelope Valley Region.

The Application includes a plan for implementation of seven (7) projects all targeted at reducing the mismatch between supply and demand projected for the Region by 2035. The availability of existing water supplies would be increased through two (2) projects of the Application; one which would increase surface water supply and another that would improve natural recharge to the groundwater basin while also providing environmental and flood management benefits. Other projects included in the Application would facilitate the use of recycled water throughout the Region as well as **improve water quality** in the groundwater through four (4) interdependent recycled water projects, **thereby providing a new water supply** to the Region. The final project in the Application would reduce regional water demand by as much as 10 percent by 2035 through a regional water conservation program. Overall, the Application could provide approximately 72,200 AFY of water and 115 acres of open space to the Region in addition to improved water quality, environmental management, and flood management.

We urge your **thoughtful** consideration of the Antelope Valley Integration Regional Water Management Program Grant Application.

Please let me know if you have any questions.

Very truly yours,



RICHARD "DICK" WELLS,
President, Board of Directors

DW/dd

cc: J. Lauren Everett, Kennedy/Jenks Consultants,
1000 Hill Road, Suite 200, Ventura, CA 93003
PWD Board of Directors