

Updated Integrated Regional Water Management Plan Report

May 2008

Appendix B: Detailed Project Sheets



Prepared for:
Western Municipal Water District

Kennedy/Jenks Consultants
Engineers & Scientists



WMWD Integrated Regional Water Management Plan Project Information Form

Please submit no later than 2/27/08 via e-mail to: bobtran@kennedyjenks.com. Questions, please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Box Springs Mutual Water Company			
Contact Name	First: Bruce	Last: Gottshalk	
Mailing Address	Street Address: 21740 Dracaea Ave.		
City: Moreno Valley	State: CA	Zip: 92553	
Email: bsmwc@hotmail.com	Phone: (951) 653-6419	Fax: (951) 653-3361	
Project Information			
Project Name: BSMWC Project 1 – Nitrate Removal System			
Project Location: 21740 Dracaea Ave. Moreno Valley, CA			
Watershed/Sub-watershed: Santa Ana River			
Groundwater Basin: Riverside South Groundwater Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): This project would install a nitrate treatment system on well #17 to reduce the nitrate contamination level of the water prior to disinfection and distribution. This system will likely consist of a skid mounted selective contaminant well head ion exchange system to significantly reduce the level of nitrates in the source water. In addition to the treatment system, a new building enclosure, concrete, and other associated appurtenances would be funded through this project to construct a complete operational system that operates efficiently and effectively.</p> <p>In order to economically produce high quality water, only a fraction of the total flow pumped from well #17 must be treated. Approximately 300 gpm of treated water would be blended with raw water to provide a potable water supply of 800 gpm that will meet all necessary regulations.</p> <p>This treatment process would allow the BSMWC to directly distribute water generated entirely from local sources without blending with water obtained from WMWD. Although this would eliminate the need to obtain water supplies from outside sources, the connection to WMWD would remain available for emergency uses.</p> <p>An additional benefit of this project includes a reduction in annual operating costs by eliminating the need to purchase approximately \$60,000 of water per year from WMWD for blending purposes. BSMWC currently purchases 120 to 160 AF/y of water from WMWD. This project would also reduce demand on imported water supplies, including the State Water Project.</p>			

<p>Annual Water Yield (AF): This project will allow an additional 300 GPM of additional water to be pumped from the well for potable water distribution. This is estimated to be approximately 180 additional Acre-feet per year.</p>	<p>Total Project Cost: \$1,960,000 year of estimate: 2007 Fixed O&M: \$10,000/yr Variable O&M: \$0/yr</p>
<p>Funds Requested: \$1,960,000</p>	<p>Cost Matching Funds: \$0.00</p>
<p>Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Describe any other funding opportunities under consideration/available to this project: A grant pre-application has been submitted under the California Department of Health Services, Division of Drinking Water and Environmental Management. This pre-application is currently under review for potential submittal of a second step application for funding.</p>	
<p>Project phases completed: <input type="checkbox"/> Planning <input type="checkbox"/> Design</p>	<p>Construction contract award date: N/A</p>

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Pre-Application for funding under California Department of Health Services, Division of Drinking Water and Environmental Management	Consultant: K/J	Date: 7/30/07
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: N/A If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): MND Assumed		
Permits Required and Status: Not Yet Determined		
Land Acquisition Status, if required: None Required		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: None		
Main Challenges to Project Implementation: Lack of Funding		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



WMWD Integrated Regional Water Management Plan Project Information Form

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Agency Information			
Agency or Organization: Box Springs Mutual Water Company			
Contact Name	First: Bruce	Last: Gottshalk	
Mailing Address	Street Address: 21740 Dracaea Ave.		
City: Moreno Valley	State: CA	Zip: 92553	
Email: bsmwc@hotmail.com	Phone: (951) 653-6419	Fax: (951) 653-3361	
Project Information			
Project Name: BSMWC Project 2 – Pipeline Replacement			
Project Location: 21740 Dracaea Ave. Moreno Valley, CA			
Watershed/Sub-watershed: Santa Ana River			
Groundwater Basin: Riverside South Groundwater Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): This project will modernize an aging distribution system that is significantly passed its useful life by replacing a significant fraction of the corroded and deteriorated pipes that are currently in service. These infrastructure improvements will reduce water losses, water outages, and potential water contamination issues related to the extremely fragile state of the existing distribution system. This project would fund infrastructure improvements that consist of failing pipelines, valves, fire hydrants, and other related equipment. A separate project to replace an aging pump station is also being submitted for funding.</p> <p>The necessary replacements will allow the water distribution system to operate more efficiently by significantly reducing water losses and pumping costs using modern corrosion resistant materials and appropriately sized distribution pipes. Approximately 36,700 feet of 8” and 12” PVC pipe will be used to replace existing failed 4” and 6” lines.</p> <p>These improvements will increase emergency fire flows within the systems service area by reducing friction losses in the system. This would be a vast improvement from the current conditions and contribute significantly to the improvement of this disadvantaged area.</p> <p>All replacement pipelines will be designed and installed according to AWWA standards with materials that are appropriate for the soil conditions to help prevent future leakage and service outages. The replacement pipelines will be installed at the appropriate depth and coordinated with the City of Moreno Valley to allow street improvements that have been delayed because of</p>			

the condition of the water distribution system.	
Annual Water Yield (AF):	Total Project Cost: \$7,350,000 year of estimate: 2007 Fixed O&M: \$0/yr Variable O&M: \$0/yr
Funds Requested: \$7,350,000	Cost Matching Funds: \$0.00
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project: A grant pre-application has been submitted under the California Department of Health Services, Division of Drinking Water and Environmental Management. This pre-application is currently under review for potential submittal of a second step application for funding.	
Project phases completed: <input type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date: N/A

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Pre-Application for funding under California Department of Health Services, Division of Drinking Water and Environmental Management	Consultant: K/J	Date: 07/30/07
Title: Application for funding under DWR Proposition 50 Chapter 7 Agricultural and Water Use efficiency.	Consultant: K/J	Date: 04/09/07
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes ___X_No	If no, Expected Date of Adoption: N/A If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Cat-Ex		
Permits Required and Status: Encroachment Permits		
Land Acquisition Status, if required: None Required		
This project is an: ___X___ Independent operable project ___ Operable segment of larger project If larger project, # of expected phases ___		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: None		
Main Challenges to Project Implementation: Lack of Funding		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
<input checked="" type="checkbox"/> Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	
<input type="checkbox"/> Resolution of significant water-related conflicts.	
<input type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
<input type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	
<input type="checkbox"/> Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input type="checkbox"/> Non-point source pollution reduction, management and monitoring.	
<input type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input type="checkbox"/> Watershed protection and management.	
<input type="checkbox"/> Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
<input type="checkbox"/> Evaluation of climate change impacts on the state's water supply and flood control systems	
<input type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Mailing Address	Street Address: 21740 Dracaea Ave.		
City: Moreno Valley	State: CA	Zip: 92553	
Email: bsmwc@hotmail.com	Phone: (951) 653-6419	Fax: (951) 653-3361	
Project Information			
Project Name: BSMWC Project 3 – Pump Station Upgrades			
Project Location: 21740 Dracaea Ave. Moreno Valley, CA			
Watershed/Sub-watershed: Santa Ana River			
Groundwater Basin: Riverside South Groundwater Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): This project will aid in the modernization of a deteriorating distribution system. This project would replace the current pump station with an entirely new system that meets all applicable codes and requirements of this type of installation and provides adequate fire flow.</p> <p>The new system will consist of a new 800 gpm pump, as well as a 3,650 gpm pump for emergency conditions, all with new motor control centers, instrumentation, and other modernized control equipment. A 200 KW backup generator would also be included in this design; in the event of an emergency, the facility would have the ability to continue to deliver an adequate level of service to meet local requirements. These systems would be housed in a new pumping structure to protect this valuable equipment and provide a safe working environment for the employees of the BSMWC.</p> <p>In addition to a new pump station, this project will also replace assorted yard piping, and other appurtenances to transform the pump station that does not conform to current codes into a modern facility.</p> <p>The necessary replacements will allow the water distribution system to operate more efficiently and increase fire flows within the distribution system. New pumps and motors that are appropriately sized for the current system conditions will also reduce energy consumption.</p> <p>All of the pump station piping, pumps and other appurtenances will be designed and</p>			

constructed according to the latest AWWA standards, electrical and building codes, and all other applicable regulations. This project will bring this deteriorated and decaying system up to modern standards and aid in the development of this disadvantaged community.

Annual Water Yield (AF):	Total Project Cost: \$2,270,000 year of estimate: 2007 Fixed O&M: \$0/yr Variable O&M: \$0/yr
Funds Requested: \$2,270,000	Cost Matching Funds: \$0.00
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project: None	
Project phases completed: <input type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date: N/A

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Application for funding under DWR Proposition 50 Chapter 7 Agricultural and Water Use efficiency.	Consultant: K/J	Date: 04/09/07
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: N/A If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): MND		
Permits Required and Status: This project will be on an existing structure, so it is not expected that any permits will be required.		
Land Acquisition Status, if required: None Required		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: None		
Main Challenges to Project Implementation: Lack of Funding		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: New Water Wells			
Project Location: City of Corona (city-wide)			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project and a map showing project area/location): The City desires to produce about 50% of its water demand from local sources and currently plans for the construction of one new water production well every two to three years. These new wells will enhance the City's production of groundwater during drought periods when imported water is limited. Wells will be located to pump within permeable aquifer zones while minimizing well interference. Wells will also be located to capture a portion of groundwater discharge that is currently exiting the groundwater basin, thereby increasing the basin yield. This Project includes drilling and equipping one new water well in 2009.			
Annual Water Yield (AF): 1,935	Total Project Cost: \$ 1,500,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>50,000</u> /yr Variable O&M: \$ <u>100,000</u> /yr		
Funds Requested: \$ 150,000	Cost Matching Funds: \$ 1,350,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: City Funds.			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2009	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Water Master Plan	Consultant: AKM	Date: 09/2005
Title: Urban Water Management Plan	Consultant: AKM	Date: 11/2005
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 11/2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Project included in Water Master Plan Program EIR		
Permits Required and Status: N/A		
Land Acquisition Status, if required: N/A		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Increases Corona's ability to supply water to City of Norco and Western WWD.		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<u>X</u> Drinking water treatment and distribution.	New potable water source
___ Resolution of significant water-related conflicts.	
<u>X</u> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	New potable water source
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Replacement Water Wells			
Project Location: City of Corona (city-wide)			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project and a map showing project area/location): The State Controller's Office lists the service life of water wells at 30 years. The City has eight water wells that have exceeded the 30-year service life. The City plans for one replacement water well about every three years. This project includes drilling and equipping one replacement water well.			
Annual Water Yield (AF): 1935	Total Project Cost: \$ 1,500,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>50,000</u> /yr Variable O&M: \$ <u>100,000</u> /yr		
Funds Requested: \$ 150,000	Cost Matching Funds: \$ 1,350,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: City Funds.			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2009	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Water Master Plan	Consultant: AKM	Date: 9/2005
Title: Urban Water Management Plan	Consultant: AKM	Date: 11/2005
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 11/2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Project included in Water Master Plan Program EIR		
Permits Required and Status: N/A		
Land Acquisition Status, if required: N/A		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Increases Corona's ability to supply water to City of Norco & Western WWD		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	Expand existing potable water source
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Expand existing potable water source
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Rincon Groundwater Treatment Project			
Project Location: Near Rincon Street between Auburndale Street and Lincoln Avenue			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning (Design)			
Project Description (incl. goal of project and a map showing project area/location): The Rincon project is scheduled for fiscal year of 2015-2016 at a projected cost of \$15,000,000. The proposed location is in the vicinity of Rincon Street and Alcoa. The project will yield 5,000 AF/Y to the current potable water system, City of Norco, Jurupa CSD and Western MWD. The specific components of the project are three new wells, a raw water pipeline, a treatment process involving selective resins or best available technology (BAT) to reduce nitrate concentrations, a 6,500 sq. ft. building to house the process, a product pipeline, property acquisition, and brine disposal to the SARI pipeline. This project is in an area of historically high nitrate concentrations and the addition of wellhead treatment facilities will allow for expanded use of the groundwater basin.			
Annual Water Yield (AF): 5,600	Total Project Cost: \$ 15,000,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>500,000</u> /yr Variable O&M: \$ <u>1,500,000</u> /yr		
Funds Requested: \$ 200,000		Cost Matching Funds: \$ 1,800,000	
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: City Funds.			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2013	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Water Master Plan	Consultant: AKM	Date: 9/2005
Title: Urban Water Management Plan	Consultant: AKM	Date: 11/2005
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes ___X_No	If no, Expected Date of Adoption: 2014 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Project included in Water Master Plan Program EIR		
Permits Required and Status: CA DPH – to be submitted upon completion of design		
Land Acquisition Status, if required: N/A		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any: City of Norco, Jurupa CSD, Western MWD		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<u>X</u> Drinking water treatment and distribution.	New potable water source
<u>X</u> Resolution of significant water-related conflicts.	Groundwater cleanup
<u>X</u> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	New potable water source
<u>X</u> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Reduce Nitrates & TDS in groundwater supply & recharge
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Wellhead Treatment for Wells 6,7, and 17			
Project Location: E 6th Street between Rimpau Avenue and Grand Boulevard			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning (Design)			
Project Description (incl. goal of project and a map showing project area/location): Water quality in City Wells 6, 7, and 17 appears to be threatened by a groundwater plume containing trichloroethene (TCE), Nitrates and other contaminants migrating from the vicinity of the Corona Sanitary Landfill. The City may need to install a granular activated carbon (GAC) system or other groundwater treatment system (such as Bio-Treatment) to mitigate contamination at these production wells.			
Annual Water Yield (AF): 4,800	Total Project Cost: \$ 10,000,000 year of estimate: <u>2013</u> Fixed O&M: \$ <u>100,000</u> /yr Variable O&M: \$ <u>500,000</u> /yr		
Funds Requested: \$ 200,000	Cost Matching Funds: \$ 800,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: City Funds, AB303			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2010	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 12/2010 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Cat Ex.		
Permits Required and Status: N/A		
Land Acquisition Status, if required: N/A		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any:		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<u>X</u> Drinking water treatment and distribution.	Wellhead treatment
<u>X</u> Resolution of significant water-related conflicts.	Wellhead treatment
<u>X</u> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Wellhead treatment
<u>X</u> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Wellhead treatment
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



WMWD Integrated Regional Water Management Plan Project Information Form
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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: El Sobrante Groundwater Treatment Project			
Project Location: Near 6th Street between El Sobrante Road and Rimpau Ave			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning (Design)			
Project Description (incl. goal of project and a map showing project area/location):			
<p>The El Sobrante project is scheduled for fiscal year of 2020-2021 at a projected cost of \$20,000,000. The proposed location is in the vicinity of Sixth Street and El Sobrante. The project will yield 5,000 AF/Y to the current potable water system, which can be delivered to the City's last WMP and then Western MWD. The specific components of the project are three new wells, a raw water pipeline, a granular activated carbon (GAC) pre-treatment system to reduce TCE in the groundwater pumped, followed by a treatment process which will be selective resins or best available technology (BAT) to reduce nitrates in the groundwater pumped, a 6,500 sq. ft. building to house the process, a product pipeline, property acquisition, and brine disposal to the SARI pipeline.</p>			
Annual Water Yield (AF):	Total Project Cost: \$ 20,000,000 year of estimate: <u>2008</u>		
5,600	Fixed O&M: \$ <u>600,000</u> /yr		
	Variable O&M: \$ <u>1,700,000</u> /yr		
Funds Requested: \$ 200,000		Cost Matching Funds: \$ 1,800,000	
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project:			
City Funds / SRF			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2018	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Water Master Plan	Consultant: AKM	Date: 9/2005
Title: Urban Water Management Plan	Consultant: AKM	Date: 11/2005
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption: 2020	
CEQA-document type (Cat Ex; ND/MND, EIR): Project included in Water Master Plan Program EIR		
Permits Required and Status: CA DPH – to be submitted upon completion & design		
Land Acquisition Status, if required:		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any: Western MWD		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<u>X</u> Drinking water treatment and distribution.	New potable water source
<u>X</u> Resolution of significant water-related conflicts.	Groundwater cleanup
<u>X</u> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	New potable water source
<u>X</u> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Reduce Nitrates, TCE & TDS in groundwater & recharge
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Lee Lake Water District's Discharge to Bedford Subbasin			
Project Location: Near the I-15 Fwy between Cajalco Road and Indian Truck Trail			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning (Pilot Study)			
Project Description (incl. goal of project and a map showing project area/location): This recharge project includes discharging recycled water (tertiary treated and disinfected) produced by Lee Lake Water District into surface recharge basins or injection wells (exact locations to be determined) in the Bedford Subbasin. This recycled water is currently being discharged to Temescal Wash and is lost from the subbasin. The source of the recycled water is wastewater from local residential communities that are supplied with imported water of generally higher quality than ambient groundwater. Therefore, the recharge of recycled water will likely have a beneficial water quality impact on the ambient total dissolved solids in the subbasin.			
Annual Water Yield (AF): 800	Total Project Cost: \$ 500,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>0</u> /yr Variable O&M: \$ <u>0</u> /yr		
Funds Requested: \$ 10,000		Cost Matching Funds: \$ 90,000	
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: MWD LRP			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2012	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Groundwater Management Plan	Consultant: AKM / Todd	Date: 6/2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 9/2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Project included in Groundwater Management Plan Program EIR		
Permits Required and Status: DPH & RWQCB – to be applied to once design is complete		
Land Acquisition Status, if required: N/A		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any: Lee Lake Water District		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Discharge (Recycled Water) can be used for groundwater recharge
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Discharge (Recycled Water) can be used for groundwater recharge
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Groundwater Blending Program			
Project Location: City of Corona (city-wide)			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project and a map showing project area/location): The City has an on-going nitrate blending program. Groundwater with elevated nitrate is blended with imported water or groundwater with lower nitrate levels. This project upgrades and replaces existing Blend Cell analyzers and SCADA interface, R3 Reservoir. Product water can be delivered to City's Lester WTP and then Western MWD.			
Annual Water Yield (AF): 1,800	Total Project Cost: \$ 3,600,000 year of estimate: <u>2010</u> Fixed O&M: \$ <u>0</u> /yr Variable O&M: \$ <u>0</u> /yr		
Funds Requested: \$ 60,000		Cost Matching Funds: \$ 3,240,000	
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: <div align="center">City Funds / MWD LRP / SRF</div>			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2010	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Groundwater Management Plan	Consultant: AKM / Todd	Date: 6/2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 9/2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Included in Groundwater Management Plan Program EIR		
Permits Required and Status: N/A		
Land Acquisition Status, if required: N/A		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any: Western MWD		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
<input checked="" type="checkbox"/> Resolution of significant water-related conflicts.	Groundwater Management
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Groundwater recharge
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Recycled Water Recharge
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Improvement of Groundwater Quality/Quantity Monitoring Program			
Project Location: City of Corona (city-wide)			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning (Design)			
Project Description (incl. goal of project and a map showing project area/location): The City desires to improve the current groundwater monitoring program to track water levels, groundwater quality, and groundwater storage throughout the subbasins and over time. Improvements involve the development of specific monitoring protocols including monitoring locations, frequency, measurements, sampling procedures, data management, and quality assurance/quality control measures.			
Annual Water Yield (AF): 0	Total Project Cost: \$ 50,000	year of estimate: <u>2008</u>	
	Fixed O&M: \$ <u>0</u> /yr	Variable O&M: \$ <u>0</u> /yr	
Funds Requested: \$ 5,000	Cost Matching Funds: \$ 45,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: <div style="text-align: center;">City Funds / AB303</div>			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: N/A	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Groundwater Management Plan	Consultant: AKM / Todd	Date: 6/2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 9/2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Included in Groundwater Management Plan Program EIR		
Permits Required and Status: N/A		
Land Acquisition Status, if required: N/A		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any:		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
<input checked="" type="checkbox"/> Resolution of significant water-related conflicts.	Groundwater Management
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Groundwater Recharge
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Coldwater Subbasin Enhanced Recharge Program			
Project Location: Near the I-15 Fwy between Cajalco Road and Indian Truck Trail			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning (Design)			
Project Description (incl. goal of project and a map showing project area/location):			
<p>The City may wish to implement an enhanced recharge program to enhance the quantity and quality of groundwater in the Coldwater and Temescal Subbasins. Currently the City manages recharge in Coldwater Wash along a reach south of Glen Ivy Road. This enhanced recharge is accomplished through a series of in-stream berms that retain streamflow, allowing for increased percolation. Only high flows during wet years are not captured; these flows have been observed to contribute to local flooding of roads and may represent an opportunity for additional recharge water. The City may wish to work with Riverside County Flood Control District to investigate methods of capturing these additional flows. In addition to Coldwater Wash, there may be additional drainages where natural recharge could be increased, such as Temescal Creek and I-15/91 Interchange.</p>			
Annual Water Yield (AF):	Total Project Cost: \$ 100,000 year of estimate: <u>2008</u>		
2,000	Fixed O&M: \$ <u>0</u> /yr		
	Variable O&M: \$ <u>0</u> /yr		
Funds Requested: \$ 10,000		Cost Matching Funds: \$ 90,000	
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: <div align="center">City Funds.</div>			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2015	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Groundwater Management Plan	Consultant: AKM / Todd	Date: 6/2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: 9 / 2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Included in Groundwater Management Plan Program EIR		
Permits Required and Status: N/A		
Land Acquisition Status, if required: N/A		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Potentially Riverside County Flood Control District, Lee Lake Water District, may participate.		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
<input checked="" type="checkbox"/> Resolution of significant water-related conflicts.	Stormwater Management
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Groundwater Recharge
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
<input checked="" type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	Coldwater wash run-off capture
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Recharge Basins within Oak Avenue Detention Basin			
Project Location: Near the intersection of Oak Avenue and W. Chase Drive			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project and a map showing project area/location): The Oak Avenue Detention Basin is a large stormwater basin located at the mountain front near Oak Avenue and Chase Drive. According to a pilot study conducted by the City (PBSJ and Ron Barto, July 2004), a recharge basin constructed within the larger detention basin is capable of receiving and percolating about 2,500 AF/year. If another similar recharge basin were constructed in the detention basin, recharge could be potentially increased to as much as 4,000 or 5,000 AF/year. In addition to optimizing the recharge of stormwater, recycled water or imported water could be conveyed to the detention basin for recharge. Facilities to convey recycled water are described in the recycled water strategies below. Development of this project will require coordination with RCFCWCD and is dependent on whether or not recharge can be developed at the site without compromising the overall function of the flood control basin.</p>			
Annual Water Yield (AF): 5,000	Total Project Cost: \$ 2,300,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>45,000</u> /yr Variable O&M: \$ <u>900,000</u> /yr		
Funds Requested: \$ 230,000	Cost Matching Funds: \$ 2,070,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Describe any other funding opportunities under consideration/available to this project: City Funds.	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date: 2008

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Groundwater Management Plan	Consultant: AKM / Todd	Date: 6/2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 9/2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Included in Groundwater Management Plan Program EIR		
Permits Required and Status: DPH & RWQCB		
Land Acquisition Status, if required: To be submitted upon completion of design		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any:		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<u>X</u> Drinking water treatment and distribution.	Groundwater recharge & potable Stormwater & recycled water
<u>X</u> Resolution of significant water-related conflicts.	Groundwater recharge & potable Stormwater & recycled water
<u>X</u> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Groundwater recharge & potable Stormwater & recycled water
<u>X</u> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Groundwater recharge & potable Stormwater & recycled water
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
<u>X</u> Storm water capture, storage, clean-up, and treatment.	Groundwater recharge & potable Stormwater & recycled water
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Recharge Basins within Main Street Detention Basin			
Project Location: Near the intersection of Main Street and Upper Drive			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project and a map showing project area/location): Another flood control basin, the Main Street Detention Basin, could also be configured for additional groundwater recharge. The detention basin is located near Main Street and Upper Drive and functions to reduce peak flows into the lined channels of the City's stormwater management system. According to a pilot study conducted by the City (PBSJ and Ron Barto, July 2004), a recharge basin constructed within the larger detention basin is capable of receiving and percolating about 500 AF/year. If two additional basins were constructed at the site, the quantity accepted could be tripled to about 1,500 AF/year. Development of this project will require coordination with RCFCWCD and is dependent on whether or not recharge can be developed at the site without compromising the overall function of the flood control basin.			
Annual Water Yield (AF): 1,500	Total Project Cost: \$ 690,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>15,000</u> /yr Variable O&M: \$ <u>270,000</u> /yr		
Funds Requested: \$ 69,000		Cost Matching Funds: \$ 621,000	
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: City Funds.			

Project phases completed: <u>X</u> Planning <u> </u> Design	Construction contract award date: 2009
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Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Groundwater Management Plan	Consultant: AKM	Date: 6/2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 9/2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Included in Groundwater Management Plan Program EIR		
Permits Required and Status: DPH & RWQCB		
Land Acquisition Status, if required: To be submitted upon completion & design		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any:		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<u>X</u> Drinking water treatment and distribution.	Groundwater recharge & potable Stormwater & recycled water
<u>X</u> Resolution of significant water-related conflicts.	Groundwater recharge & potable Stormwater & recycled water
<u>X</u> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Groundwater recharge & potable Stormwater & recycled water
<u>X</u> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Groundwater recharge & potable Stormwater & recycled water
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
<u>X</u> Storm water capture, storage, clean-up, and treatment.	Groundwater recharge & potable Stormwater & recycled water
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Upgradient Injection Wells			
Project Location: Southeast of the I-15 and 91 Interchange			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project and a map showing project area/location): Enhanced recharge through wells is an option for increasing yield to the groundwater basin. Although exact locations have not yet been determined, recharge would most likely be effective at the upgradient portion of the Channel Aquifer, near the Arlington Gap. Recharge wells would need to be located to minimize interference with inflow from the adjacent Riverside-Arlington Subbasin. Although the inflow has been observed to contain elevated nitrate concentrations, the area represents a major source of recharge water to the Channel Aquifer. Potable water, recycled water, Stormwater, surface and local runoff or blended water could be injected into these wells. Specific components at each site would include a well, well head, down-comer pipes, flow metering, supply piping, flow control and pressure reducing valve, and air relief system.			
Annual Water Yield (AF): 4,800	Total Project Cost: \$ 5,000,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>45,000</u> /yr Variable O&M: \$ <u>860,000</u> /yr		
Funds Requested: \$ 500,000	Cost Matching Funds: \$ 4,500,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: City Funds, MWD LRP			
Project phases completed: <input type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2012	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Groundwater Management Plan	Consultant: AKM / Todd	Date: 6/2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 9/2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Included in Groundwater Management Plan's Program EIR		
Permits Required and Status: DPH & RWQCB, to be applied for upon completion of design		
Land Acquisition Status, if required: N/A		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any: RCFCD and Western MWD		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	Injection of recycled and blended potable water
<input checked="" type="checkbox"/> Resolution of significant water-related conflicts.	Improve groundwater recharge & quality
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Increased groundwater supply
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Blended recycle use
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Recycled Water Injection Wells			
Project Location: City of Corona (city-wide)			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning (Design)			
Project Description (incl. goal of project and a map showing project area/location): Recycled water injection wells could be constructed in several areas of the City that meet regulatory requirements for residence time underground prior to extraction and maintain groundwater basins. The Title 22, California Code of Regulations (Division 4, Chapter 3, Section 60320.010, California Department of Public Health) states: "for a subsurface injection project, all the recycled water shall be retained underground for a minimum of twelve (12) months prior to extraction for use as a drinking water supply, and shall not be extracted within 2,000 feet of a recycled water injection well." Specific components at each site include a well, well head, down-comer pipes, flow metering, piping and valving that are connected to the adjacent recycled water piping, and a flow control and pressure reducing valve. Additional plans needed for basin model, sampling and pilot study.			
Annual Water Yield (AF): 4,500	Total Project Cost: \$ 4,600,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>110,000</u> /yr Variable O&M: \$ <u>2,200,000</u> /yr		
Funds Requested: \$ 460,000	Cost Matching Funds: \$ 4,140,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: City Funds / AB303			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date:	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Groundwater Management Plan	Consultant: AKM / Todd	Date: 6/2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 9/2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Included in Groundwater Management Plan's Program EIR		
Permits Required and Status: DPH & RWQCB		
Land Acquisition Status, if required: N/A		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any: RCFCD, Western MWD of Home Garden		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<u>X</u> Drinking water treatment and distribution.	Increased reliability of drinking water system
<u>X</u> Resolution of significant water-related conflicts.	Groundwater quality improvement
<u>X</u> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Groundwater recharge
<u>X</u> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Recycled water injection
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Recycled Water Zone 3 to Zone 2 Interconnect			
Project Location: Pipeline begin at the intersection between Sampson Ave and the Temescal Creek and ends at the intersection of Magnolia Avenue and Fullerton Avenue			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning (Design)			
Project Description (incl. goal of project and a map showing project area/location): A pipeline that connects Zone 3 to Zone 2 would allow conveyance of recycled water to different groundwater storage facilities in the City. Currently, Zone 3 is fed by WWTP3 and is not connected to any groundwater storage facilities such as the Oak Avenue and Main Street detention basins. Therefore, during wet periods the effluent from WWTP3 is discharged to the Temescal Wash rather than stored in the groundwater basin. Project could be bundled with Project C-15			
Annual Water Yield (AF): 1,800	Total Project Cost: \$ 4,800,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>0</u> /yr Variable O&M: \$ <u>0</u> /yr		
Funds Requested: \$ 48,000	Cost Matching Funds: \$ 432,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: City Funds, MWD LRP			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2010	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Recycled Water Model	Consultant: AKM	Date: 7/2006
Title: Groundwater Management Plan	Consultant: AKM / Todd	Date: 6/2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 9/2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Included in Groundwater Management Plan Program EIR		
Permits Required and Status: N/A		
Land Acquisition Status, if required: N/A		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: City of Norco		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Increased local water supply by reuse
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Recycled water reuse
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Recycled Water Zone 4 to Zone 3 Interconnect			
Project Location: Pipeline begins at the intersection of California Avenue and Foothill Park and ends at the intersection of Bedford Canyon Road and Boyd Avenue			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning (Design)			
Project Description (incl. goal of project and a map showing project area/location): A pipeline that connects Zone 4 to Zone 3 would allow conveyance of recycled water to customers in Zone 4. This would provide more flexibility in using Zone 3 recycled water in Zone 4 rather than conveying Zone 1 or Zone 2 water to Zone 4. Project could be bundled with Project C-14.			
Annual Water Yield (AF): 3,000	Total Project Cost: \$ 2,400,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>0</u> /yr Variable O&M: \$ <u>0</u> /yr		
Funds Requested: \$ 24,000	Cost Matching Funds: \$ 216,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: City Funds, MWD LRP			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2012	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Recycled Water Model	Consultant: AKM	Date: 7/2006
Title: Groundwater Management Plan	Consultant: AKM / Todd	Date: 6/2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 9/2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Included in Groundwater Management Plan Program EIR		
Permits Required and Status: N/A		
Land Acquisition Status, if required: N/A		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: City of Norco		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Increase local water supply by reuse
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Recycled water reuse
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: WWTP2 Upgrade to Tertiary			
Project Location: Near the intersection of Harrison Street and Parkridge Avenue			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning (Design)			
Project Description (incl. goal of project and a map showing project area/location): The secondary effluent from Wastewater Treatment Plant 2 (WWTP2) is currently conveyed to the Lincoln and Cota percolation ponds. Upgrades could be constructed at WWTP2 that would provide tertiary treatment and disinfection of the secondary effluent and produce Title 22 recycled water. The recycled water could be connected to the recycled water system in Harrison Street—which is immediately north of WWTP2—or sent to the percolation ponds for recharge.			
Annual Water Yield (AF): 3,300	Total Project Cost: \$ 9,500,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>900,000</u> /yr Variable O&M: \$ <u>900,000</u> /yr		
Funds Requested: \$ 90,000	Cost Matching Funds: \$ 810,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: <div style="text-align: center;">City Funds & SRF</div>			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2010	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Wastewater Treatment Plant Capacity Requirements	Consultant: AKM	Date: 12/2007
Title: North Main Street Sewer Evaluation	Consultant: AKM	Date: 12/2007
Title: Groundwater Management Plan	Consultant: AKM / Todd	Date: 6/2008
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: 10/2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): MND in progress		
Permits Required and Status: DPH & RWQCB		
Land Acquisition Status, if required: N/A		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any:		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
<input checked="" type="checkbox"/> Water conservation and water use efficiency.	
<input type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
<input type="checkbox"/> Drinking water treatment and distribution.	
<input type="checkbox"/> Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Discharge (Recycled Water) can be used for groundwater recharge
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Discharge (Recycled Water) can be used for groundwater recharge
Stormwater Management	
<input type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	
<input type="checkbox"/> Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input type="checkbox"/> Non-point source pollution reduction, management and monitoring.	
<input type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input type="checkbox"/> Watershed protection and management.	
<input type="checkbox"/> Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
<input type="checkbox"/> Evaluation of climate change impacts on the state's water supply and flood control systems	
<input type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: WWTP1A Upgrade to Tertiary			
Project Location: Near the intersection of Railroad Street and Auto Center Drive			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning (Design)			
Project Description (incl. goal of project and a map showing project area/location): The secondary effluent from Wastewater Treatment Plant 1A (WWTP1A) is currently conveyed to the Lincoln and Cota percolation ponds. Upgrades could be constructed at WWTP1A that would route the flows through the WWTP1 tertiary filters and chlorine contact tank to produce Title 22 recycled water. The recycled water would then be stored in the on-site recycled water reservoir or sent to the percolation ponds for recharge.			
Annual Water Yield (AF): 1,100	Total Project Cost: \$ 2,100,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>210,000</u> /yr Variable O&M: \$ <u>210,000</u> /yr		
Funds Requested: \$ 21,000		Cost Matching Funds: \$ 189,000	
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: <div align="center">City Funds & SRF</div>			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2012	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Wastewater Treatment Plant Capacity Requirements	Consultant: AKM	Date: 12/2007
Title: North Main Street Sewer Evaluation	Consultant: AKM	Date: 12/2007
Title: Groundwater Management Plan	Consultant: AKM / Todd	Date: 6/2008
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 12/2010 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): MND		
Permits Required and Status: DPH & RWQCB		
Land Acquisition Status, if required: N/A		
This project is an: <u>X</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any:		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
<input checked="" type="checkbox"/> Water conservation and water use efficiency.	
<input type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
<input type="checkbox"/> Drinking water treatment and distribution.	
<input type="checkbox"/> Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Discharge (Recycled Water) can be used for groundwater recharge
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Discharge (Recycled Water) can be used for groundwater recharge
Stormwater Management	
<input type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	
<input type="checkbox"/> Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input type="checkbox"/> Non-point source pollution reduction, management and monitoring.	
<input type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input type="checkbox"/> Watershed protection and management.	
<input type="checkbox"/> Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
<input type="checkbox"/> Evaluation of climate change impacts on the state's water supply and flood control systems	
<input type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



WMWD Integrated Regional Water Management Plan Project Information Form
 Please submit no later than 2/27/08 via e-mail to: bobtran@kennedyjenks.com. Questions,
 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92880	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Groundwater Treatment Program			
Project Location: City of Corona (city-wide)			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning (Design)			
Project Description (incl. goal of project and a map showing project area/location): The City currently operates the Temescal Desalter to reduce salts in the City's water supply. Expansion of the groundwater treatment program is needed to maintain long term water quality and usable supply. The amount of treated groundwater can be increased without additional facility expansion at this time. This project includes drilling and developing two supplemental wells to be pumped when desalter wells are down to routine maintenance.			
Annual Water Yield (AF): 3,800	Total Project Cost: \$ 3,000,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>150,000</u> /yr Variable O&M: \$ <u>300,000</u> /yr		
Funds Requested: \$ 40,000	Cost Matching Funds: \$ 360,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: City Funds.			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2010	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Groundwater Management Plan	Consultant: AKM / Todd	Date: 6/2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 9/2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Included in Groundwater Management Plan Program EIR		
Permits Required and Status: N/A		
Land Acquisition Status, if required: N/A		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any:		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
<u>X</u> Resolution of significant water-related conflicts.	Goundwater Management
<u>X</u> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Groundwater Recharge
<u>X</u> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Recycled Water Recharge
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: City of Corona			
Contact Name	First: Jonathan	Last: Daly	
Mailing Address	Street Address: 730 Corporation Yard Way		
City: Corona	State: CA	Zip: 92882	
Email: jonathan.daly@ci.corona.ca.us	Phone: (951) 736-2477	Fax: (951) 279-3695	
Project Information			
Project Name: Lincoln and Cota Street Percolation Ponds Maintenance Program			
Project Location: Near Harrison Street between Lincoln Avenue and Cota Street			
Watershed/Sub-watershed: Santa Ana River / Upper Santa Ana			
Groundwater Basin: Temescal Groundwater Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project and a map showing project area/location): Regularly scheduled maintenance on the percolation ponds is critically important to optimize pond percolation. Based on past monitoring of percolation rates in the ponds, they require maintenance approximately every 3 to 5 years. This consists of removing the fine soil particulates (filter cake) from the pond bottom and sides and hauling the filter cake off site for legal disposal.			
Annual Water Yield (AF): 8,000	Total Project Cost: \$ 100,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>0</u> /yr Variable O&M: \$ <u>0</u> /yr		
Funds Requested: \$ 10,000	Cost Matching Funds: \$ 90,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: City Funds.			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 2010	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Groundwater Management Plan	Consultant: AKM/Todd	Date: 6/2008
Title: Evaluation of Cota South Pond, Cota North Pond and Lincoln Pond	Consultant: AKM	Date: 10/2006
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Cat Ex.		
Permits Required and Status: N/A		
Land Acquisition Status, if required: N/A		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any:		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Increase groundwater recharge through percolation pond maintenance program
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Elsinore Valley Municipal Water District			
Contact Name	First: Phil	Last: Miller	
Mailing Address	Street Address: 31315 Chaney Street		
City: Lake Elsinore	State: CA	Zip: 92531	
Email: philmillier@evmwd.net	Phone: (951) 674-3146	Fax: (951) 674-7554	
Project Information			
Project Name: The Avenues Septic Tank Conversion Project			
Project Location: City of Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: Elsinore Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): In accordance with the recommendations of the Groundwater Management Plan and Groundwater Quality and Modeling Project as funded by the Department of Water Resources, the Avenues Septic Tank Conversion Project consists of constructing a new sewer system in the 'Avenues' area of Lake Elsinore to prevent nitrate contamination of the aquifer. The proposed project is just upgradient of Lake Elsinore. The residents have approached EVMWD about connecting to a sewer system due to the concern of failing septic tanks. The project involves constructing approximately 2.5 miles of 8-inch diameter sewer, 400 sewer laterals and the abandonment of 400 septic tanks. The proposed sewer system will connect to the existing 24-inch diameter trunk sewer which conveys flows to the Regional Water Reclamation Facility. EVMWD provides both water and wastewater services to the area.</p> <p>The project benefits two public water agencies, EVMWD and Elsinore Water District, by reducing the nitrate loading in the high-risk zone of the Elsinore Basin. The high-risk zone is most vulnerable to contamination and encompasses existing groundwater supply facilities and is where most of the aquifer recharge occurs.</p> <p>Additionally the Santa Ana Regional Water Quality Control Board recently established nutrient TMDL's for Lake Elsinore. One of the nutrient management strategies mandated by the TMDL is reduction or elimination of septic tanks within the watershed tributary to Lake Elsinore. This project would eliminate up to 400 septic tanks adjacent to the lake.</p>			

Annual Water Yield (AF):	Total Project Cost: \$ 6,500,000 year of estimate: <u>2007</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr
Funds Requested: \$4,875,000	Cost Matching Funds: \$1,625,000
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date: TBD

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Groundwater Investigation	Consultant: Kennedy/Jenks Consultants	Date: April 2007
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption: TBD	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status: City of Lake Elsinore		
Land Acquisition Status, if required: Not Applicable		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any:		
Main Challenges to Project Implementation: Funding		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
__ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	The Avenues area is a disadvantaged community. Project protects water supply.
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
__ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	The project would significantly reduce the nitrate load throughout the basin to below drinking water standards.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	Reduces TMDLs within the watershed tributary to Lake Elsinore
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Elsinore Valley Municipal Water District			
Contact Name	First: Phil	Last: Miller	
Mailing Address	Street Address: 31315 Chaney Street		
City: Lake Elsinore	State: CA	Zip: 92531	
Email: philmillier@evmwd.net	Phone: (951) 674-3146	Fax: (951) 674-7554	
Project Information			
Project Name: The Palomar Area Septic Tank Conversion Project			
Project Location: Wildomar/Lakeland Village			
Watershed/Sub-watershed: San Jacinto/Santa Margarita			
Groundwater Basin: Elsinore Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): In accordance with the recommendations of the Groundwater Management Plan and Groundwater Quality and Modeling Project as funded by the Department of Water Resources, the Palomar Area Conversion Project consists of constructing a new sewer system in the Wildomar/Lakeland Village area to prevent nitrate contamination of the aquifer. The project involves constructing approximately 6 miles of 8-inch diameter sewer, 600 sewer laterals and the abandonment of 600 septic tanks. The proposed sewer system will connect to the existing 24-inch diameter trunk sewer which conveys flows to the Regional Water Reclamation Facility. EVMWD provides both water and wastewater services to the area.</p> <p>The project benefits two public water agencies, EVMWD and Elsinore Water District, by reducing the nitrate loading in the high-risk zone of the Elsinore Basin. The high-risk zone is most vulnerable to contamination and encompasses existing groundwater supply facilities and is where most of the aquifer recharge occurs.</p>			
Annual Water Yield (AF): Approx.	Total Project Cost: \$ 12,000,000 year of estimate: <u>2007</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$8,000,000	Cost Matching Funds: \$4,000,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <u> </u> Planning <u> </u> Design	Construction contract award date: TBD

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Groundwater Investigation	Consultant: Kennedy/Jenks Consultants	Date: April 2007
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption: TBD	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status: City of Lake Elsinore		
Land Acquisition Status, if required: Not Applicable		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any:		
Main Challenges to Project Implementation: Funding		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
__ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	The area is a disadvantaged community. Project protects water supply.
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
__ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	The project would significantly reduce the nitrate load throughout the basin to below drinking water standards.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	Reduces TMDLs within the watershed tributary to Lake Elsinore and Santa Margarita River
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Elsinore Valley Municipal Water District			
Contact Name	First: Phil	Last: Miller	
Mailing Address	Street Address: 31315 Chaney Street		
City: Lake Elsinore	State: CA	Zip: 92531	
Email: philmillier@evmwd.net	Phone: (951) 674-3146	Fax: (951) 674-7554	
Project Information			
Project Name: Sedco Hills Septic Tank Conversion Project			
Project Location: Sedco Hills – Unincorporated Riverside County			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: Elsinore Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): In accordance with the recommendations of the Groundwater Management Plan and Groundwater Quality and Modeling Project as funded by the Department of Water Resources, the Sedco Hills Septic Tank Conversion Project consists of constructing a new sewer system in the Sedco Hills area of Lake Elsinore to prevent nitrate contamination of the aquifer. The proposed project is just upgradient of Lake Elsinore. The project involves constructing approximately 5 miles of 8-inch diameter sewer, 500 sewer laterals and the abandonment of 500 septic tanks. The proposed sewer system will connect to the existing 24-inch diameter trunk sewer which conveys flows to the Regional Water Reclamation Facility. EVMWD provides both water and wastewater services to the area.</p> <p>The project benefits two public water agencies, EVMWD and Elsinore Water District, by reducing the nitrate loading in the high-risk zone of the Elsinore Basin. The high-risk zone is most vulnerable to contamination and encompasses existing groundwater supply facilities and is where most of the aquifer recharge occurs.</p> <p>Additionally the Santa Ana Regional Water Quality Control Board recently established nutrient TMDL's for Lake Elsinore. One of the nutrient management strategies mandated by the TMDL is reduction or elimination of septic tanks within the watershed tributary to Lake Elsinore. This project would eliminate up to 500 septic tanks adjacent to the lake.</p>			
Annual Water Yield (AF):	Total Project Cost: \$ 10,000,000 year of estimate: <u>2007</u>		

Approx.	Fixed O&M: \$___/yr Variable O&M: \$___/yr
Funds Requested: \$7,500,000	Cost Matching Funds: \$2,500,000
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project: Submitted pre-application to CDPH for Prop 50 funding	
Project phases completed: <input type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date: TBD

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Groundwater Investigation	Consultant: Kennedy/Jenks Consultants	Date: April 2007
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption: TBD	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status: Riverside County		
Land Acquisition Status, if required: Not Applicable		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any:		
Main Challenges to Project Implementation: Funding		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
__ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	The Sedco Hills area is a disadvantaged community. Project protects water supply.
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
__ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	The project would significantly reduce the nitrate load throughout the basin to below drinking water standards.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	Reduces TMDLs within the watershed tributary to Lake Elsinore.
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Elsinore Valley Municipal Water District			
Contact Name	First: Phil	Last: Miller	
Mailing Address	Street Address: 31315 Chaney Street		
City: Lake Elsinore	State: CA	Zip: 92531	
Email: philmillier@evmwd.net	Phone: (951) 674-3146	Fax: (951) 674-7554	
Project Information			
Project Name: Wildomar Recycled Water Project - Phase 1			
Project Location: City of Wildomar/Lake Elsinore			
Watershed/Sub-watershed: Santa Margarita Watershed and San Jacinto			
Groundwater Basin: Not Applicable			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): The project consists of constructing approximately 32,500 linear feet of 6-inch to 12-inch diameter recycled water pipelines and the necessary on-site system conversions to provide recycled water service to thirty (34) sites including seven schools, a cemetery, park, church, and the Diamond Stadium. Design of off-site facilities is complete and design of the on-site retrofits is underway.			
Annual Water Yield (AF): Approx. 1200 AF/Year	Total Project Cost: \$ 8,830,000 year of estimate: <u>2008</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$6,622,500	Cost Matching Funds: \$2,207,500		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: Currently submitting an application for funding from MWD's Local Resources Program; Received a grant for 25% of project costs from State Water Resources Control Board; preparing application for SRF funding from the State Water Resources Control Board.			

Project phases completed: <u>X</u> Planning <u> </u> Design	Construction contract award date: 8/08
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Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Wildomar Recycled Water Master Plan	Consultant: Kennedy/Jenks Consultants	Date: June 2004
Title: Preliminary Design Report	Consultant: HDR Engineering	Date: Dec. 2007
Title: Contract Documents	Consultant: HDR	Date: Feb 2007
Title:	Consultant:	Date:

Has CEQA been completed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption: Feb. 4, 2005	
CEQA-document type (Cat Ex; ND/MND, EIR): Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program. An update to the MND will be prepared for site specific impacts and will be adopted prior to bidding.		
Permits Required and Status: City of Lake Elsinore/Riverside County – To be submitted		
Land Acquisition Status, if required: Not Applicable		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any: Eastern Municipal Water District and Rancho California Water District		
Main Challenges to Project Implementation: Approval of SRF Loan		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
<input checked="" type="checkbox"/> Water conservation and water use efficiency.	Decreases demand on imported water for irrigation purposes.
<input type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
<input type="checkbox"/> Drinking water treatment and distribution.	
<input type="checkbox"/> Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Decreases reliance on imported water supplies. Recycled water supply remains relatively constant even during dry or drought conditions.
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Distributes recycled water to a greater customer base in the Wildomar service area
Stormwater Management	
<input type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	
<input type="checkbox"/> Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input type="checkbox"/> Non-point source pollution reduction, management and monitoring.	
<input type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input type="checkbox"/> Watershed protection and management.	
<input type="checkbox"/> Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
<input type="checkbox"/> Evaluation of climate change impacts on the state's water supply and flood control systems	
<input type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Elsinore Valley Municipal Water District			
Contact Name	First: Phil	Last: Miller	
Mailing Address	Street Address: 31315 Chaney Street		
City: Lake Elsinore	State: CA	Zip: 92531	
Email: philmilller@evmwd.net	Phone: (951) 674-3146	Fax: (951) 674-7554	
Project Information			
Project Name: Wildomar Recycled Water Master Plan - Phase 1A			
Project Location: City of Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: Not Applicable			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): The project consists of constructing approximately 7,200 linear feet of 8-inch to 18-inch diameter recycled water pipelines, two pump stations, and two storage reservoirs, and the necessary on-site system conversions to provide recycled water to six (6) sites including one school and five landscape areas. The goal of the project is to deliver approximately 552 AFY of recycled water for landscape irrigation purposes thereby reducing the District's dependence on imported water.			
Annual Water Yield (AF): Approx. 552 AF/Year	Total Project Cost: \$ 10,000,000 year of estimate: <u>2008</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$7.5M	Cost Matching Funds: \$ 2.5M		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: Currently submitting an application for funding from MWD's Local Resources Program;			

Received a grant for 25% of project costs from State Water Resources Control Board; preparing application for SRF funding from the State Water Resources Control Board.

Project phases completed: Planning Design

Construction contract award date: 3/09

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Wildomar Recycled Water Master Plan	Consultant: Kennedy/Jenks Consultants	Date: June 2004
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption: Feb. 4, 2005	
CEQA-document type (Cat Ex; ND/MND, EIR): Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for Master Plan. A site specific MND based on the tank and pump station locations will most likely need to be prepared as well.		
Permits Required and Status: City of Lake Elsinore, RWQCB – Not submitted		
Land Acquisition Status, if required: Needs to be determined		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Eastern Municipal Water District and Rancho California Water District		
Main Challenges to Project Implementation: Funding		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
<input checked="" type="checkbox"/> Water conservation and water use efficiency.	Decreases demand on imported water for irrigation purposes.
<input type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
<input type="checkbox"/> Drinking water treatment and distribution.	
<input type="checkbox"/> Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Decreases reliance on imported water supplies. Reclaimed water supply remains relatively constant even during dry or drought conditions.
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Distributes reclaimed water to a greater customer base in the Wildomar service area
Stormwater Management	
<input type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	
<input type="checkbox"/> Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input type="checkbox"/> Non-point source pollution reduction, management and monitoring.	
<input type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input type="checkbox"/> Watershed protection and management.	
<input type="checkbox"/> Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
<input type="checkbox"/> Evaluation of climate change impacts on the state's water supply and flood control systems	
<input type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Elsinore Water District			
Contact Name	First: Tammy	Last: Ramirez	
Mailing Address	Street Address: 16899 Lakeshore Dr.		
City: Lake Elsinore	State: CA	Zip: 92531	
Email: tramirezewd@verizon.net	Phone: (951) 674-2168	Fax: (951) 674-5429	
Project Information			
Project Name: Lakeland Village Water System Capital Improvements			
Project Location: Lakeland Village area of EWD (areas south of Lake Elsinore)			
Watershed/Sub-watershed: San Jacinto Valley/Elsinore Valley			
Groundwater Basin: Elsinore			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): The project includes all upcoming and long term improvements needed for the Lakeland Village water supply system. This includes tank maintenance and upgrade of two tanks to include separate inlets/outlets because of EVMWD's recent change to chloramination treatment. The project also includes over 7,000 LF of pipe size upgrades from 1", 2", and 4" to 6" and 8". The pipe upgrades are required to improve aging facilities and provide more reliable water service.			
See attached map of area.			
Annual Water Yield (AF):	Total Project Cost: \$ 1,451,000 year of estimate: __2007		
	Fixed O&M: \$___/yr		
	Variable O&M: \$___/yr		
Funds Requested: \$	Cost Matching Funds: \$		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project:			

Project phases completed: <u> </u> Planning <u> </u> Design	Construction contract award date:
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Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: EWD Capital Improvement Plan	Consultant: Water3 Engineering	Date: Nov 2007
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes ___No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: ___Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any:		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for <u>small</u> or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	





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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Home Gardens County Water District			
Contact Name	First: Karl	Last: Schalow	
Mailing Address	Street Address: 3832 N Grant St.		
City: Corona	State: CA	Zip: 91719	
Email: hgcwd@pcmagic.net	Phone: (951) 737-4741	Fax: (951) 737-9478	
Project Information			
Project Name: Home Gardens Raw Water Supply to Arlington Desalter			
Project Location: HGCWD well field to Arlington Desalter between Cities of Corona and Riverside			
Watershed/Sub-watershed: Middle Santa Ana River/Arlington			
Groundwater Basin: Arlington			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): The project proposes to construct 2.3 miles of 12-inch raw water pipeline between HGCWD Well #4 and the Arlington Desalter in to provide high-salinity water as a backup supply and allow expansion. As shown on the map below, a potential pipeline alignment is to go from Well #4 located at Magnolia Avenue and Windsong Street, continue down Windsong Street to Indiana, continue northwest on Indiana to either Lincoln Street or Buchanan Street to Magnolia, a well traveled boulevard. The Arlington Desalter is located near Magnolia and La Sierra Avenue for a total distance of about 2.3 miles. Additionally, the pipeline would provide raw water for irrigation of street medians on Magnolia Street in Corona and Riverside and thereby reduce the use of potable water. The project would provide the benefit of using an existing well to provide up to 2,200 AF/Y of non-potable water for irrigation and supply to the Arlington Desalter.			
Annual Water Yield (AF): 2,200	Total Project Cost: \$ 2,800,000 (escalated from \$2.4 M 2003 estimate) year of estimate: <u>2008</u>		
	Fixed O&M: \$___/yr		
	Variable O&M: \$___/yr		
Funds Requested: \$	Cost Matching Funds: \$		

Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? Yes No

Describe any other funding opportunities under consideration/available to this project: Federal
This project has been submitted for funding under DHS Prop 50 Funding as well as to SAWPA for the 2005 Integrated Water Resources Plan.

Project phases completed: Planning Design

Construction contract award date:



Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: ___Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: WMWD, City of Corona, City of Riverside		
Main Challenges to Project Implementation: Funding, HGCWD is in a disadvantaged community.		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	Home Gardens CWD is in a disadvantaged community. Water supplied to the Arlington Desalter can augment the agency's supply because HGCWD obtains much of its water from the City of Riverside.
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Project will reduce dependence on imported water by providing additional non-potable water supply for irrigation, and treatment for potable use.
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Project will supply local groundwater supply high in salts and nitrates to the Arlington Desalter for salt removal and blending.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Jurupa Community Services Department			
Contact Name	First: Eldon	Last: Horst	
Mailing Address	Street Address: 11201 Harrel Street		
City: Mira Loma	State: CA	Zip: 91752	
Email: ehorst@jcsd.us	Phone: (951) 727-3527	Fax: (951) 727-3501	
Project Information			
Project Name: Eastvale Area Non-Potable Water Supply System			
Project Location: Eastvale, Eastvale Extension, and Service Area B of JCSD service area west of Etiwanda and south of Galena.			
Watershed/Sub-watershed: Middle Santa Ana River/Chino (Split)			
Groundwater Basin: Chino			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The project proposes to construct 217,000 lineal feet of pipeline and 5 MG of storage to provide recycled water from the IEUA Water Reclamation Facilities to JCSD Eastvale Area in order to provide the area with 1,616 AFY of reclaimed water. JCSD currently irrigates approximately 41% of existing and future irrigation demands with non-potable well water and the rest with potable water. The majority of areas irrigated with potable water are in the Eastvale Area. The proposed project would allow the Eastvale Area irrigation demands to be served using 98% reclaimed water and the JCSD area to be served 80% with some form of non-potable water.</p> <p>The project would provide the benefit of reducing demand of potable water for irrigation needs and provide a more diverse and reliable water supply.</p> <p>This project was identified in the 2005 SAWPA IRP as Project #s 604 and 607</p> <p>The project area defined as the Eastvale, Eastvale Extension, and Service Area B as shown in the attached Figure 1-2 from the <u>Eastvale Area Non-Potable Water Irrigation Study</u>.</p>			
Annual Water Yield (AF): 1,616	Total Project Cost: \$ 28,800,000 year of estimate: <u>2008</u> Fixed O&M: \$ <u>127,260</u> /yr Variable O&M: \$ <u>0</u> /yr		

Funds Requested: \$	Cost Matching Funds: \$
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Draft Eastvale Area Non-Potable Water Irrigation Study	Consultant: Albert A. Webb Associates	Date: Jan 08
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: 2008 If yes, Date of Adoption:
CEQA-document type (Cat Ex; ND/MND, EIR):	
Permits Required and Status:	
Land Acquisition Status, if required:	
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____	
Larger project:	Start Date: Complete Date:
Project Partners identified, if any: Inland Empire Utilities Agency	
Main Challenges to Project Implementation: Funding	

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
<input checked="" type="checkbox"/> Water conservation and water use efficiency.	Improve more efficient use of existing potable supplies by providing non-potable water for appropriate uses
<input type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
<input type="checkbox"/> Drinking water treatment and distribution.	
<input type="checkbox"/> Resolution of significant water-related conflicts.	
<input type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Provides reclaimed water.
Stormwater Management	
<input type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	
<input type="checkbox"/> Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input type="checkbox"/> Non-point source pollution reduction, management and monitoring.	
<input type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input type="checkbox"/> Watershed protection and management.	
<input type="checkbox"/> Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
<input type="checkbox"/> Evaluation of climate change impacts on the state's water supply and flood control systems	
<input type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Jurupa Community Services Department			
Contact Name	First: Eldon	Last: Horst	
Mailing Address	Street Address: 11201 Harrel Street		
City: Mira Loma	State: CA	Zip: 91752	
Email: ehorst@jcsd.us	Phone: (951) 727-3527	Fax: (951) 727-3501	
Project Information			
Project Name: Geordie Way – Water & Sewer Services			
Project Location: Glen Avon area east of Campbell Street along Geordie Way			
Watershed/Sub-watershed: Middle Santa Ana River/Chino (Split)			
Groundwater Basin: Chino			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): The proposed project will construct 1,100-1,400 feet of water and sewer pipeline to provide service to residents currently served by private wells and septic systems in the Glen Avon area. Owners in this area have reported that wells have run dry during summers. The project would provide a more reliable water supply for residents in a disadvantaged community. The project location is shown in the attached map.			
Annual Water Yield (AF):	Total Project Cost: \$ 350,000 year of estimate: <u>2007</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$350,000	Cost Matching Funds: \$		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: NONE			
Project phases completed: <input type="checkbox"/> Planning <input checked="" type="checkbox"/> Design		Construction contract award date: EST. 12/08	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: FEASIBILITY REPORT DESIGN	Consultant: ALBERT A. WEBB ASSOCIATES	Date: 5/31/2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption: 8/30/2008	
CEQA-document type (Cat Ex; ND/MND, EIR): NO		
Permits Required and Status: COUNTY OF RIVERSIDE		
Land Acquisition Status, if required: NONE		
This project is an: <u>X</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any: NONE		
Main Challenges to Project Implementation: TYPE OF SOIL		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<u>X</u> Safe and reliable drinking water supply for small or disadvantaged communities.	The project will provide drinking water to residents in a disadvantaged community that is currently served by private wells.
<u>X</u> Drinking water treatment and distribution.	The project will provide drinking water to residents in a disadvantaged community that is currently served by private wells.
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Jurupa Community Services Department			
Contact Name	First: Eldon	Last: Horst	
Mailing Address	Street Address: 11201 Harrel Street		
City: Mira Loma	State: CA	Zip: 91752	
Email: ehorst@jcsd.us	Phone: (951) 727-3527	Fax: (951) 727-3501	
Project Information			
Project Name: Indian Hills Recycled Water Project			
Project Location:			
Watershed/Sub-watershed: Middle Santa Ana River/Chino (Split)			
Groundwater Basin: Chino			
Project Type (check applicable) <input type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): Construct pipeline along Van Buren Blvd. to deliver treated effluent from the City of Riverside Regional Water Quality Control Plant south of District's boundary to existing development in the Indian Hills area and adjacent water purveyor. This project was identified in the 2005 SAWPA IWPas Project #594.			
Annual Water Yield (AF):	Total Project Cost: \$ _____ year of estimate: _____ Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$	Cost Matching Funds: \$		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: 50% local funding available			
Project phases completed: <input type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date:	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any:		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
<input checked="" type="checkbox"/> Water conservation and water use efficiency.	Replacing potable water with recycled water will provide for more potable water for higher value uses. Reduces Chino Basin groundwater use.
<input type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
<input type="checkbox"/> Drinking water treatment and distribution.	
<input type="checkbox"/> Resolution of significant water-related conflicts.	
<input type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Distributes recycled water to Indian Hills area from City of Riverside Regional Water Quality Control Plant.
Stormwater Management	
<input type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	
<input type="checkbox"/> Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input type="checkbox"/> Non-point source pollution reduction, management and monitoring.	
<input type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input type="checkbox"/> Watershed protection and management.	
<input type="checkbox"/> Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
<input type="checkbox"/> Evaluation of climate change impacts on the state's water supply and flood control systems	
<input type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Jurupa Community Services Department			
Contact Name	First: Eldon	Last: Horst	
Mailing Address	Street Address: 11201 Harrel Street		
City: Mira Loma	State: CA	Zip: 91752	
Email: ehorst@jcsd.us	Phone: (951) 727-3527	Fax: (951) 727-3501	
Project Information			
Project Name: Wastewater Treatment Plant No. 1 – 5 Year and 100 Year Flood Protection			
Project Location: Southeast corner of intersection of Limonite Ave. and Bain St.			
Watershed/Sub-watershed: Middle Santa Ana River/Chino (Split)			
Groundwater Basin: Chino			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): JCSD needs to protect Wastewater Treatment Plant No. 1 from 5-year and 100-year flood events and to increase the storage capacity of the collection ponds for current and future flows. Plant No. 1 is at great risk of being flooded. As an example, in 2005, a significant rainfall occurred and caused the Santa Ana River to migrate approximately 200 feet towards the District's Plant No. 1 collection ponds. Flood protection improvements are required to protect the property and to ensure the integrity of the Santa Ana River. There is potential that during a significant rain event, the collection ponds could overflow into the river.</p> <p>Failure to complete the project increases the potential for water quality impacts from overtopping or failure of the wastewater ponds.</p> <p>The project location is provided in the attached exhibit.</p>			
Annual Water Yield (AF): N/A	Total Project Cost: \$ 5,000,000 year of estimate: <u>2007</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$5,000,000.00	Cost Matching Funds: \$NONE		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Describe any other funding opportunities under consideration/available to this project: NONE	
Project phases completed: ___Planning <u>X</u> Design	Construction contract award date: EST. 1/31/2009

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Stury Report, Hydraulic calculation and 100% design drawings	Consultant: Albert A. Webb Associates	Date:4/30/2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption: 7/31/2008	
CEQA-document type (Cat Ex; ND/MND, EIR): NOTICE OF DETERMINATION		
Permits Required and Status: U.S. ARMY CORPS OF ENGINEERS, DEPARTMENT OF FISH & GAME & RIVERSIDE County flood control district		
Land Acquisition Status, if required: N/A PROPERTY IS IN JCSD ROW		
This project is an: <u>X</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Fish and Wildlife Riverside-Corona Resource Conservation District U.S. Army Corps of Engineers		
Main Challenges to Project Implementation: REGIONAL AND STATEWIDE COORDINATION AND PERMITTING		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
<input checked="" type="checkbox"/> Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
<input checked="" type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	The project has the potential to include habitat enhancement elements.



WMWD Integrated Regional Water Management Plan Project Information Form
 Please submit no later than 2/27/08 via e-mail to: bobtran@kennedyjenks.com. Questions,
 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Jurupa Community Services Department			
Contact Name	First: Eldon	Last: Horst	
Mailing Address	Street Address: 11201 Harrel Street		
City: Mira Loma	State: CA	Zip: 91752	
Email: ehorst@jcsd.us	Phone: (951) 727-3527	Fax: (951) 727-3501	
Project Information			
Project Name: Roger D. Teagarden Ion Exchange Plant Expansion			
Project Location: 4150 Etiwanda Avenue, Mira Loma, CA 91752			
Watershed/Sub-watershed: Middle Santa Ana River/Chino (Split)			
Groundwater Basin: Chino			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The project will upgrade the existing Teagarden Ion Exchange Plant from 8 mgd to 15 mgd in order to remove nitrate and improve potable water quality from seven groundwater wells. JCSD and the Santa Ana River Water Company (SARWC) obtain all of their water supplies from groundwater, which have been experiencing increasing degradation. Both agencies have had to stop using five wells because of excessive nitrates from past agricultural practices in the area. The project will help provide JCSD and SARWC with a safer and more reliable water supply, and decrease the amount of high nitrate groundwater from the Chino Basin from flowing into the Santa Ana River.</p> <p>There is adequate additional space at the existing treatment plant for expansion which will enable new brine systems and treatment vessels and salt storage tanks.</p> <p>The project location is provided in the attached exhibit.</p>			
Annual Water Yield (AF): 40,000 AF/Y	Total Project Cost: \$ \$10,200,000 year of estimate: <u>2007</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$10,200,000	Cost Matching Funds: \$		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

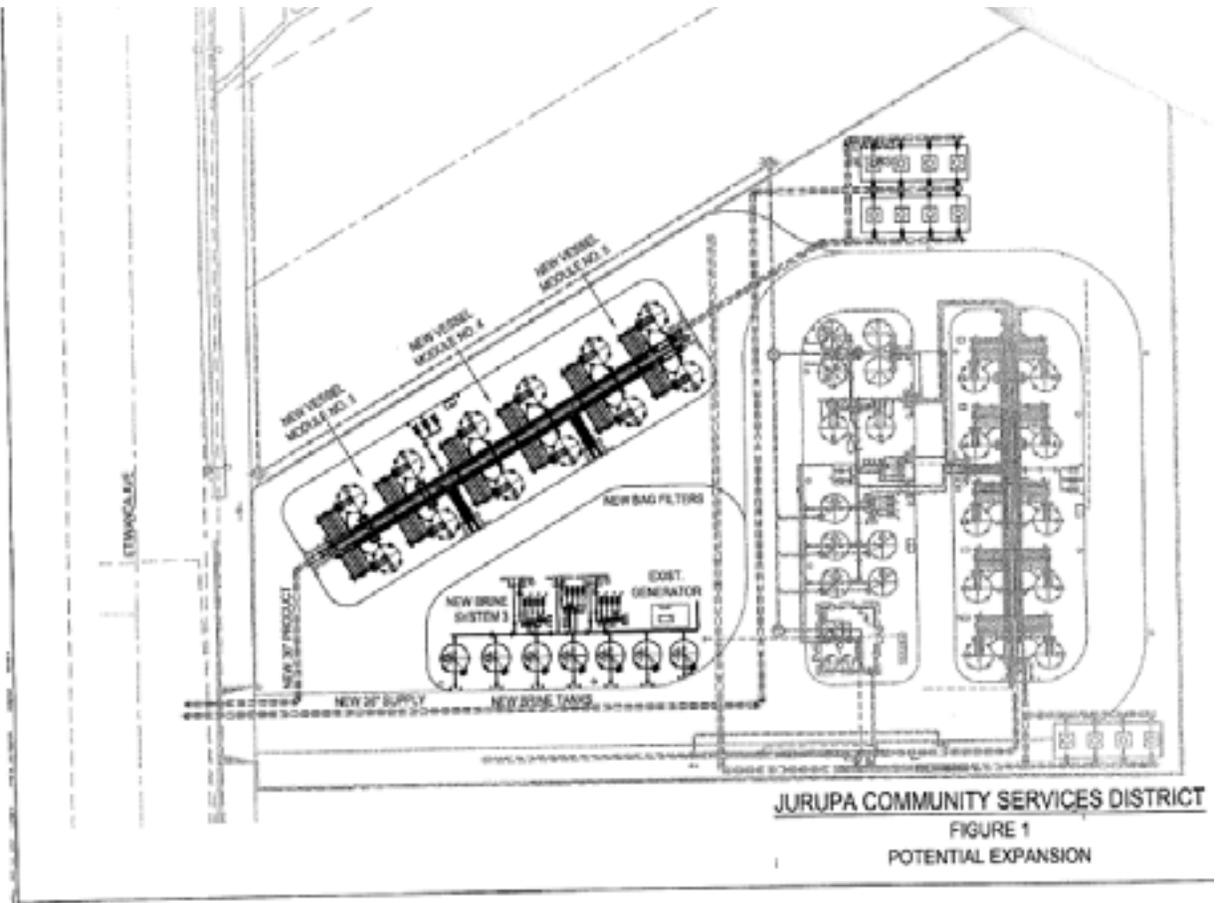
Describe any other funding opportunities under consideration/available to this project: NONE	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: STUDY REPORT	Consultant: BOYLE ENGINEERING	4/30/08
Title: STUDY REPORT	Consultant: ALBERT A. WEBB ASSOCIATES	Date: 4/30/08
Title: MULTI-WELL EVALUATION REPORT	Consultant: GENERAL PUMP	Date: 4/23/08
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:8/30/08	
CEQA-document type (Cat Ex; ND/MND, EIR): NOTICE OF DETERMINATION		
Permits Required and Status: REGIONAL WATER QUALITY CONTROL BOARD - NPDES CALIFORNIA DEPARTMENT OF PUBLIC HEALTH		
Land Acquisition Status, if required: NONE		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any:		

Main Challenges to Project Implementation: Identifying wells in close proximity with acceptable water quality to minimize piping to the treatment plant.

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	





WMWD Integrated Regional Water Management Plan Project Information Form
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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Jurupa Community Services Department			
Contact Name	First: Eldon	Last: Horst	
Mailing Address	Street Address: 11201 Harrel Street		
City: Mira Loma	State: CA	Zip: 91752	
Email: ehorst@jcsd.us	Phone: (951) 727-3527	Fax: (951) 727-3501	
Project Information			
Project Name: Selby Street – Water & Sewer Services			
Project Location: Selby Street, Mira Loma			
Watershed/Sub-watershed: Middle Santa Ana River/Chino (Split)			
Groundwater Basin: Chino			
Project Type (check applicable) <input type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): The project will provide 1,340 feet of small diameter water pipeline and appurtenances to residents presently served by private water wells in Chandler west of Van Daele tract to Hellman and 2,180 lineal feet in Chandler north to Selby for a total of 3,520 lineal feet. Continued development has forced closure of some of these private wells, which have experienced high nitrate levels in the past. The project will also provide 1,354 lineal feet of small diameter sewer pipeline and appurtenances to residents presently served by septic systems in Walters and Selby Streets. This project will help provide residents of a disadvantaged community. With more reliable, higher quality drinking water and sewer service.			
Annual Water Yield (AF):	Total Project Cost: \$ 600,000 year of estimate: <u>2007</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$600,000	Cost Matching Funds: \$		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Describe any other funding opportunities under consideration/available to this project:
NONE

Project phases completed: Planning Design

Construction contract award date: EST.
4/09

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: TECHNICAL MEMO	Consultant: ALBERT A. WEBB ASSOCIATES	Date:2/28/08
Title: DESIGN	Consultant: ALBERT A. WEBB ASSOCIATES	Date:6/30/08
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: 7/30/08 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): NOTICE OF DETERMINATION		
Permits Required and Status: COUNTY OF RIVERSIDE		
Land Acquisition Status, if required:N/A		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: NONE		
Main Challenges to Project Implementation: GETTING BUY IN FROM THE PROPERTY OWNERS AS TO THE NEED TO INSTALL ADEQUATE WATER & SEWER FACILITIES.		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Jurupa Community Services Department			
Contact Name	First: Eldon	Last: Horst	
Mailing Address	Street Address: 11201 Harrel Street		
City: Mira Loma	State: CA	Zip: 91752	
Email: ehorst@jcsd.us	Phone: (951) 727-3527	Fax: (951) 727-3501	
Project Information			
Project Name: Prado Dam Area Wetlands Park			
Project Location: Prado Wetlands			
Watershed/Sub-watershed: Middle Santa Ana River/Chino (Split)			
Groundwater Basin: Chino			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
Project Description (incl. goal of project): Planned efforts by the Army Corps of Engineers to raise the level of Prado Dam and increase the amount of storage provide the opportunity for JCS D to develop wetland habitats within its service area upstream of Prado Dam. The project would produce additional wetland areas, thereby providing additional wildlife habitat along with water quality benefits associated with treatment of storm water within wetlands. Project partners have been identified and the project is still in a conceptual phase.			
Annual Water Yield (AF):	Total Project Cost: \$ 850,000 year of estimate: 2008-09 Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$850,000	Cost Matching Funds: \$UNKNOWN		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project:			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date:	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: 4/2009 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): EINVIROMENTAL IMPACT REPORT		
Permits Required and Status: U.S. ARMY CORPS OF ENGINEERS		
Land Acquisition Status, if required: NONE		
This project is an: ___Independent operable project <u>X</u> Operable segment of larger project If larger project, # of expected phases_____		
Larger project: <u>X</u>	Start Date: 12/2008	Complete Date:12/2009
Project Partners identified, if any: Riverside-Corona Conservation District Orange County Water District Army Corps of Engineers		
Main Challenges to Project Implementation: ENVIRONMENTAL MITIGATION		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
<input checked="" type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
<input checked="" type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
<input checked="" type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Jurupa Community Services Department			
Contact Name	First: Eldon	Last: Horst	
Mailing Address	Street Address: 11201 Harrel Street		
City: Mira Loma	State: CA	Zip: 91752	
Email: ehorst@jcsd.us	Phone: (951) 727-3527	Fax: (951) 727-3501	
Project Information			
Project Name: High School Well Renovation			
Project Location: east of Etiwanda and south of Cantu-Galleano Ranch Road			
Watershed/Sub-watershed: Middle Santa Ana River/Chino (Split)			
Groundwater Basin: Chino			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The project proposes to renovate an existing well which would require redevelopment including the addition of a sanitary seal and re-equipping. The project would also include the conversion of the 18"/24" pipeline to a raw water conveyance pipeline with piping modifications at the IXTP.</p> <p>The project would provide the benefit of providing an additional source of raw water to the Roger D. Teagarden Ion Exchange Plant and provide a more diverse and reliable water supply.</p>			
Annual Water Yield (AF): 600 AF/Y	Total Project Cost: \$ 975,000 year of estimate: <u>2008</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$975,000	Cost Matching Funds: \$NONE		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: NONE			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: 12/22/08	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: MULTI WELL EVALUATION	Consultant: GENERAL PUMP	Date: 4/23/08
Title: DESIGN REPORT	Consultant: ALBERT A. WEBB ASSOCIATES	Date: 5/30/08
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption:6/30/08	
CEQA-document type (Cat Ex; ND/MND, EIR): NOTICE OF DETERMINATION		
Permits Required and Status: REGIONAL WATER QUALITY CONTROL BOARD COUNTY OF RIVERSIDE WELL DRILLER'S PERMIT		
Land Acquisition Status, if required: NONE		
This project is an: <u>X</u> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases ___		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: NONE		
Main Challenges to Project Implementation: CONSTRUCTION OF PIPELINE TO ETIWANDA AVENUE		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Jurupa Community Services Department			
Contact Name	First: Eldon	Last: Horst	
Mailing Address	Street Address: 11201 Harrel Street		
City: Mira Loma	State: CA	Zip: 91752	
Email: ehorst@jcsd.us	Phone: (951) 727-3527	Fax: (951) 727-3501	
Project Information			
Project Name: Emergency Services Generators for Water Well Pumps			
Project Location: District Well Field – JCS D Service Area			
Watershed/Sub-watershed: Middle Santa Ana River/Chino (Split)			
Groundwater Basin: Chino			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The project proposes to equip all District well facilities with backup generators. in accordance with the US GAO Critical Infrastructure Protection Report and make the District less dependent on outside resources in the event of an incident involving technological and physical components (“swarming attacks”).</p> <p>The flexibility provided by the mobile generator approach would make the District less dependent on outside resources in the event of such an incident.</p>			
Annual Water Yield (AF):	Total Project Cost: \$ 1,300,000 year of estimate: <u>2008</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$1,300,000	Cost Matching Funds: \$ NONE		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Describe any other funding opportunities under consideration/available to this project:
NONE

Project phases completed: Planning Design

Construction contract award date 11/24/08:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: STUDY	Consultant: ALBERT A. WEBB ASSOCIATES	Date: 4/30/08
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: 6/30/08 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): NO		
Permits Required and Status: AQMD		
Land Acquisition Status, if required: N/A		
This project is an: <input checked="" type="checkbox"/> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases___		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any:		
Main Challenges to Project Implementation: LEAD TIME FOR GENERATORS		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	

Describe any other funding opportunities under consideration/available to this project:

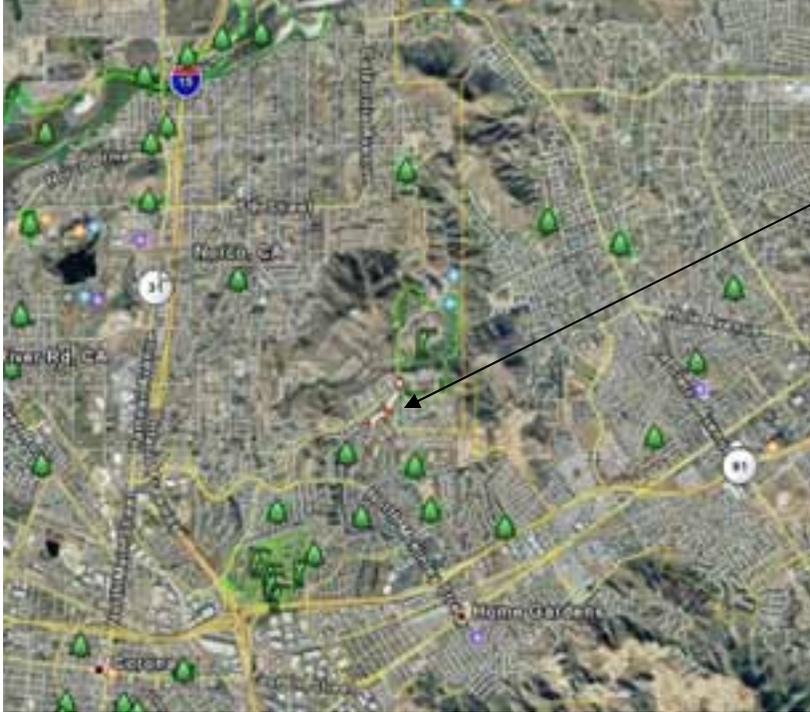
Project phases completed: ___Planning ___Design

Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any:		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Exchange of recycled water.
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Exchange of recycled water.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



Potential pipeline
Extensions



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: City of Norco			
Contact Name	First: Bill	Last: Thompson	
Mailing Address	Street Address: 1281 Fifth St.		
City: Norco	State: CA	Zip: 92860	
Email: bthompson@ci.norco.ca.us	Phone: (951)-270-5601	Fax: (951) 270-5622	
Project Information			
Project Name: Lake Norconian Water Supply with Recycled Water			
Project Location: Lake Norconian, City of Norco			
Watershed/Sub-watershed: Middle Santa Ana River/Temescal			
Groundwater Basin: Temescal			
Project Type (check applicable) <input type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The project will develop an additional 0.5 MGD of capacity at the Western Riverside County Regional Wastewater Authority (WRCRWA) Plant to provide 200,000 GPD of recycled water to replace evaporation losses at lake Norconian. The lake is located within the Naval Weapons Center and is adjacent to an existing state prison. Currently, the lake serves as a habitat for the largest variation of bird populations in Southern California. Discussions are underway to transfer the lake property to the City for a future park. In addition to the bird habitat, the lake could serve other recreational uses including the restoration of the historic lakeside Hotel California. Currently, the State of CA is paying the City of Norco \$700,000/Yr for potable water to supply Lake Norconian to replace evaporation losses so that lake level is maintained for recreational and habitat uses. The project will utilize recycled water which is currently being discharged to the ocean to provide a water supply to Lake Norconian and free up groundwater and imported water for potable uses.</p>			
Annual Water Yield (AF): 224	Total Project Cost: \$	year of estimate: _____	
	Fixed O&M: \$___/yr		
	Variable O&M: \$___/yr		

Funds Requested: \$	Cost Matching Funds: \$
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes ___No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: ___Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Land transfer for Lake Norconian will require partnerships with US Navy, hotel restoration will require partnership with Historic Society, bird habitat maintenance could require partnership with Nature conservancy groups.		
Main Challenges to Project Implementation: Funding		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Expand WRCRWA plant to provide reclaimed water to Lake Norconian.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
<input checked="" type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	Water will help maintain ecosystems at Lake Norconian.



WMWD Integrated Regional Water Management Plan Project Information Form
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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Orange County Water District			
Contact Name	First: Dan	Last: Bott	
Mailing Address	Street Address: 18700 Ward Street		
City Fountain Valley	State: CA	Zip: 92708	
Email: dbott@ocwd.com	Phone: 714 378-3256	Fax: 714 378-3381	
Project Name: River Road Wetlands			
Project Location: Upstream of River Road Bridge Crossing, Riverside County			
Watershed/Sub-watershed: Santa Ana River Watershed			
Groundwater Basin: Chino Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project):			
<p>The River Road Wetlands Project is an environmental enhancement project that provides water quality enhancement benefits, recreational benefits and wildlife enhancement benefits. The project consists of 192 acres of freshwater marsh area that would be used for water quality enhancement, 134 acres of riparian forest open space and 11 acres of access ways and public trails.</p> <p>The goals of the project are:</p> <ul style="list-style-type: none"> ▪ To improve the water quality of the Santa Ana River through the creation of treatment wetland facility, within the Prado Basin that would be capable of removing 1,000 kg/day to 1,400 kg/day of nitrate; ▪ To implement an ongoing watershed management program as part of the River Road Wetlands project within the Prado Basin that would remove non-native vegetation and restore and maintain native vegetation to help expand nesting opportunities for the endangered least Bells vireo and southwestern willow flycatcher. The project has provides for enhancement of habitat for the threatened Santa Ana Sucker; ▪ To increase recreational opportunities within the Prado Basin through the creation of 10 miles of public trails. 			

Annual Water Yield (AF): N/A	Total Project Cost: \$ 8.5 million year of estimate: 2008 Fixed O&M: \$500,000/yr Variable O&M: \$___/yr (n/a)
Funds Requested: \$	Cost Matching Funds: \$
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: River Road Treatment Wetland Project Feasibility Study Report	Consultant: Stetson Engineers	Date: October 2001
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: March 2009 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): EIR/EIS		
Permits Required and Status: Corps 404-Planning Stages CDFG 1602-Planning Stages RWQCB 401Planning Stages		
Land Acquisition Status, if required: No Acquisition required.		
This project is an: <u>X</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases___		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Portion of project would be on Army Corps of Engineer land leased to Riverside County Parks and Open Space District.		
Main Challenges to Project Implementation: Completion of CEQA/NEPA process and regulatory permits. An administrative draft EIR/EIS has been prepared and submitted to the Army Corps for review and comment by the Corps.		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	The project would increase water quality that would be available to all socio economic groups.
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	The project would improve water quality of the Santa Ana River through the removal of nitrates.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	The project would benefit flood management by removing Arundo Donax, which clogs flood control facilities and worsens flood threats.
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input checked="" type="checkbox"/> Non-point source pollution reduction, management and monitoring.	The project would reduce the impacts of non-point source pollution by treating water in the Santa Ana River.
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	The project includes an ongoing watershed management program within the Prado Basin between River Road and Hamner Avenue. The management program would remove non-native vegetation and restore and maintain native vegetation to help expand nesting opportunities for the endangered least Bells vireo and southwestern willow flycatcher. The management program would also enhance habitat for the threatened Santa Ana Sucker.

<p><input type="checkbox"/> Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.</p>	
<p><input type="checkbox"/> Evaluation of climate change impacts on the state's water supply and flood control systems</p>	
<p><input checked="" type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.</p>	<p>The project would remove invasive non-native species and restore and manage native vegetation within the Prado Basin between River Road Bridge and Hamner Avenue.</p>



WMWD Integrated Regional Water Management Plan Project Information Form
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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: City of Riverside Public Utilities Department			
Contact Name	First: Max	Last: Rasouli	
Mailing Address	Street Address: 3901 Orange Street		
City: Riverside	State: CA	Zip: 92501	
Email: MRasouli@riversideca.gov	Phone:	Fax:	
Project Information			
Project Name: Downtown Groundwater Treatment Plant			
Project Location: Downtown Riverside			
Watershed/Sub-watershed: Santa Ana River			
Groundwater Basin: Riverside South Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
Project Description (incl. goal of project): Project consists of constructing a treatment plant for treatment of contaminated groundwater that can be the used as a potable supply, and producing water from three to five wells in the area of downtown Riverside. Water would be extracted either from existing wells that have been used for irrigation supply or from one or more new wells drilled to replace the existing wells. It is assumed at this time that up to three new wells would be drilled as part of the project. The capacity of the plant would be 7.0 mgd with an assumed annual use factor of approximately 90% for an annual production of 7,000 ac-ft/yr. The plant would consist of an RO plant to reduce TDS including high nitrate and VOCs from approximately 60-70% of the extracted groundwater and a granular activated carbon (GAC) plant to treat the bypass water and remove VOCs. The project will require the construction of approximately 10,000 ft of pipeline to convey the product water to the Lynden-Evans reservoir.			
Annual Water Yield (AF): 7,000 ac-ft/year	Total Project Cost: \$40,000,000 year of estimate: 2008 Fixed O&M: \$ 525,000/yr Variable O&M: \$ 2,100,000/yr		
Funds Requested: \$ NA	Cost Matching Funds: \$ NA		

Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Downtown Plant Feasibility Study	Consultant: Camp Dresser & McKee Inc.	Date: December 2005
Title: Water Supply Plan	Consultant: Camp Dresser & McKee Inc.	Date: In progress – Completed Third Quarter 2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Assume MND		
Permits Required and Status: No permits have been obtained yet.		
Land Acquisition Status, if required: City PUD owns land to drill wells and construct a RO/GAC treatment plant.		
This project is an: <u>X</u> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases _____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any: WMWD		
Main Challenges to Project Implementation: Funding, water quality issues, and water rights considerations in the Riverside South Basin		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	Project consists of treating up to 7,000 ac-ft per year of contaminated groundwater in the Riverside South Basin and distributing it for notable consumption.
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Reverse Osmosis and Granular Activate Carbon are currently considered to treat the impacted groundwater.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: City of Riverside Public Utilities Department			
Contact Name	First: Max	Last: Rasouli	
Mailing Address	Street Address: 3901 Orange Street		
City: Riverside	State: CA	Zip: 92501	
Email: MRasouli@riversideca.gov	Phone: 951-826-5574	Fax: 951-826-2074	
Project Information			
Project Name: Riverside Highgrove Septic Conversion Project – Phase II			
Project Location: Highgrove Area (Riverside County)			
Watershed/Sub-watershed: Santa Ana River			
Groundwater Basin: Riverside Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>This project consists of converting approximately 260 residential onsite wastewater systems (septic) within the County of Riverside’s Highgrove community (west of Freeway 215) and connecting them to the City of Riverside’s wastewater collection system (see attached area map). The project components include constructing approximately 22,500 linear feet of sewer pipelines, connecting the sewer pipelines to the City of Riverside’s existing wastewater collection system, installing lateral sewer connections to approximately 260 residential units, and abandoning in-place all existing onsite wastewater systems (septic) within the project area. This project will be Phase II of a multi-phased project to convert all onsite wastewater systems in the Riverside County’s Highgrove area to sewer.</p> <p>Regional benefits of this project include:</p> <ol style="list-style-type: none"> 1. Protecting 22 percent of Riverside’s existing potable supply from encroaching wastewater effluent. 2. Eliminating a source of primary wastewater effluent to the local groundwater basin. 			
Annual Water Yield (AF): ac-ft/year	Total Project Cost: \$10,000,000 year of estimate: 2008 Fixed O&M: \$ /yr Variable O&M: \$ /yr		

Funds Requested: \$ NA	Cost Matching Funds: \$ NA
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project: Local funding will be provided by City of Riverside.	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date: 2011

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:		Date:
Title:		Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): MND.		
Permits Required and Status: No permits have been obtained yet.		
Land Acquisition Status, if required: City streets.		
This project is an: <u>X</u> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases _____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any: Riverside.		
Main Challenges to Project Implementation: Funding.		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Protect groundwater supplies from septic system leaks.
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: City of Riverside Public Utilities Department			
Contact Name	First: Max	Last: Rasouli	
Mailing Address	Street Address: 3901 Orange Street		
City: Riverside	State: CA	Zip: 92501	
Email: MRasouli@riversideca.gov	Phone: 951-826-5574	Fax: 951-826-2074	
Project Information			
Project Name: Pellissier Ranch Barrier Wells and Non-potable Water Treatment Plant			
Project Location: Santa Ana River (at the boundary of San Bernardino and Riverside Counties)			
Watershed/Sub-watershed: Santa Ana River			
Groundwater Basin: Riverside Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): This project consists of pumping and treating groundwater contaminated with wastewater effluent and manganese that could potentially migrate towards City of Riverside’s domestic water wells. The treated water will be used for non-potable purposes by the City of Riverside (Riverside) and Western Municipal Water District (WMWD). The major components of the proposed project include the following: a network of eleven (11) shallow barrier wells to capture contaminated groundwater, a network of four (4) early warning monitoring wells mainly within the 2-year time of travel to domestic wells; conveyance facilities, 10 MGD manganese treatment facilities, sewer connection for disposal of manganese waste, and pumping station to convey treated water from Riverside Canal to the Gage Canal for use as non-potable water. The proposed manganese treatment plant would be located within the Riverside’s Garner Tract off Placentia Lane.</p> <p>Regional benefits of this project include:</p> <ol style="list-style-type: none"> 1. Protecting 22 percent of Riverside’s existing potable supply from encroaching wastewater effluent. 2. Pump-and-treat manganese containing groundwater. 3. Providing up to 11,200 AFY of new water supply for non-potable demands (agriculture, irrigation, and Arlington Basin recharge). 4. Free approximately 6,000 AFY of potable water from Expanded Gage Exchange Project. 			

5. Reducing dependence on imported water by Riverside and WMWD.	
Annual Water Yield (AF): 11,200 ac-ft/year	Total Project Cost: \$18,000,000 year of estimate: 2008 Fixed O&M: \$ 600,000/yr Variable O&M: \$ 200,000/yr
Funds Requested: \$ NA	Cost Matching Funds: \$ NA
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project: Local funding will be provided by Western MWD and City of Riverside.	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date: 2011

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:		Date:
Title:		Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): EIR		
Permits Required and Status: No permits have been obtained yet.		
Land Acquisition Status, if required: City PUD owns land to drill wells and construct a water treatment plant.		
This project is an: <u>X</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any: WMWD		
Main Challenges to Project Implementation: Funding, water quality issues, and water rights considerations in the Riverside South Basin		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	Project consists of treating up to 11,200 ac-ft per year of contaminated groundwater in the Riverside Basin and distributing it for non-notable consumption.
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Includes manganese removal.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: City of Riverside			
Contact Name	First: Oscar	Last: Khoury	
Mailing Address	Street Address: 3901 Orange St.		
City: Riverside	State: CA	Zip: 92501	
Email: okhoury@riversideca.gov	Phone: (951) 826-5793	Fax: (951) 826-2498	
Project Information			
Project Name: Recycled Water Master Plan			
Project Location: City of Riverside			
Watershed/Sub-watershed: Santa Ana River			
Groundwater Basin: Arlington Basin and Riverside South Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
Project Description (incl. goal of project): The Recycled Water Master Plan consists of jointly approved projects between the City of Riverside (City) and the Western Municipal Water District (WMWD) which include the construction of 70,000 feet of transmission pipeline, a 20-million gallon reservoir, and a pump station to supply recycled water to be used to replace 4,000 to 6,000 acre-feet of potable water currently used for agricultural and irrigation purposes, and for joint use of recycled water during emergencies or drought through a connection to WMWD. The goal of the Recycled Water Master Plan is to provide 41,000 acre-feet of recycled water capacity per year by 2030.			
Annual Water Yield (AF): 15,000 41,000 (ultimate capacity by 2030)	Total Project Cost: \$60 to 100 million year of estimate: <u> 2008 </u> Fixed O&M: \$ _____/yr Variable O&M: \$ _____/yr		
Funds Requested: \$ NA		Cost Matching Funds: \$ NA	
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Describe any other funding opportunities under consideration/available to this project: Joint funding with Western Municipal Water District

Project phases completed: ___Planning ___Design

Construction contract award date: Not Available at this time

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Non-Potable Water Supply Assessment	Consultant: MWH	Date: June 2005
Title: Recycled Water Phase I Feasibility Study and Citywide Master Plan	Consultant: Parsons	Date: September 2003
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption: June 26, 2007	
CEQA-document type (Cat Ex; ND/MND, EIR): PEIR		
Permits Required and Status: RWQCB Recycled Water Permit, status is unknown		
Land Acquisition Status, if required: Not Yet Started. Property, easements, and/or ROW will need to be secured for pipeline, a reservoir, and a booster station.		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: WMWD		
Main Challenges to Project Implementation: RWQCB Recycled Water Permit		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
<input checked="" type="checkbox"/> Water conservation and water use efficiency.	Allows recycled water to be used in place of potable water, helping to off-set the demand for potable water.
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	Will provide a source of recycled water to Jurupa Community Services District and allow them to off-set their need for potable water.
<input type="checkbox"/> Drinking water treatment and distribution.	
<input type="checkbox"/> Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Off-sets the need for potable water, reducing the demand placed on local water supply by irrigational needs.
<input type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
<input type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	
<input type="checkbox"/> Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input type="checkbox"/> Non-point source pollution reduction, management and monitoring.	
<input type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input type="checkbox"/> Watershed protection and management.	
<input type="checkbox"/> Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
<input type="checkbox"/> Evaluation of climate change impacts on the state's water supply and flood control systems	
<input type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: City of Riverside			
Contact Name	First: Oscar	Last: Khoury	
Mailing Address	Street Address: 3901 Orange St.		
City: Riverside	State: CA	Zip: 92501	
Email: okhoury@riversideca.gov	Phone: (951) 826-5793	Fax: (951) 826-2498	
Project Information			
Project Name: Recycled Water Distribution System – Phase I			
Project Location: In the area generally bounded by Jurupa Av. to the north, SR-91 to the south, Magnolia Av. to the east, and Riverside’s city limit to the west.			
Watershed/Sub-watershed: Santa Ana River			
Groundwater Basin: Arlington Basin and portions of Riverside South Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
Project Description (incl. goal of project): Project consists of the construction of 11.9 miles of pipeline to supply recycled water to various users in the southwestern region of the City of Riverside. It will also provide a backup source of recycled water to Western Municipal Water District at its pump station at the intersection of the Riverside Canal and Jefferson Street and make recycled water available for the Jurupa Community Services District (JCSD). The project will ultimately distribute 1.4 MGD of recycled water to Riverside Public Utilities’ customers, and 0.7 MGD to JCSD.			
Annual Water Yield (AF): 2,350	Total Project Cost: \$31,068,000 year of estimate: <u>2007</u> Fixed O&M: \$ <u>11,000</u> /yr Variable O&M: \$ <u> </u> /yr		
Funds Requested: \$ NA	Cost Matching Funds: \$ NA		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project:			

Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date: Not available at this time
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Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Draft Project Detail Sheet: Project 8 Recycled Water Distribution System – Phase I	Consultant: Internal Document	Date: September 2007
Title: Non-Potable Water Supply Assessment	Consultant: MWH	Date: June 2005
Title: Recycled Water Phase I Feasibility Study and Citywide Master Plan	Consultant: Parsons	Date: September 2003
Title:	Consultant:	Date:

Has CEQA been completed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If no, Expected Date of Adoption: If yes, Date of Adoption: June 26, 2007
CEQA-document type (Cat Ex; ND/MND, EIR): PEIR		
Permits Required and Status: RWQCB Recycled Water Permit, status is unknown		
Land Acquisition Status, if required: N/A		
This project is an: <input type="checkbox"/> Independent operable project <input checked="" type="checkbox"/> Operable segment of larger project If larger project, # of expected phases <u>2</u>		
Larger project: Recycled Water Master Plan	Start Date: Not known, currently in progress	Complete Date: Not known at this time
Project Partners identified, if any: WMWD		
Main Challenges to Project Implementation: RWQCB Recycled Water Permit		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
<input checked="" type="checkbox"/> Water conservation and water use efficiency.	Allows recycled water to be used in place of potable water, helping to off-set the demand for potable water.
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	Will provide a source of recycled water to Jurupa Community Services District and allow them to off-set their need for potable water.
<input type="checkbox"/> Drinking water treatment and distribution.	
<input type="checkbox"/> Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Off-sets the need for potable water, reducing the demand placed on local water supply by irrigational needs.
<input type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
<input type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	
<input type="checkbox"/> Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input type="checkbox"/> Non-point source pollution reduction, management and monitoring.	
<input type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input type="checkbox"/> Watershed protection and management.	
<input type="checkbox"/> Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
<input type="checkbox"/> Evaluation of climate change impacts on the state's water supply and flood control systems	
<input type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



WMWD Integrated Regional Water Management Plan Project Information Form
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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: City of Riverside Public Utilities Department			
Contact Name	First: Max	Last: Rasouli	
Mailing Address	Street Address: 3901 Orange Street		
City: Riverside	State: CA	Zip: 92501	
Email: MRasouli@riversideca.gov	Phone: 951-826-5574	Fax: 951-826-2074	
Project Information			
Project Name: Riverside North Basin Recharge Basin			
Project Location: Santa Ana River (South of I-10), Colton			
Watershed/Sub-watershed: Santa Ana River			
Groundwater Basin: Riverside Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The project involves construction of an inflatable rubber dam in the Santa Ana River (SAR) channel and construction of eight (8) shallow groundwater recharge basins adjacent to SAR. The total surface area of the basins is anticipated to be approximately 30 acres. Recharge water for the basins will be provided through a gravity fed pipeline system, with surface flow diversions facilitated by a rubber dam structure; a permanent, inflatable bladder made of heavy duty nylon-reinforced rubber. Regional benefits of this project include:</p> <ol style="list-style-type: none"> 1. Providing an average of 3,800 AFY of new water supply for potable demands. 2. Reducing dependence on imported water by Riverside and WMWD. 3. Improving the Riverside Basin water quality by recharging better quality SAR storm flows. 4. Providing facilities for Muni/Western to recharge the Riverside North Basin if required in accordance with the 1969 Western Judgment. 			
Annual Water Yield (AF): 3,800 ac-ft/year	Total Project Cost: \$13,400,000 year of estimate: 2008 Fixed O&M: \$ 50,000/yr Variable O&M: \$ 50,000/yr		
Funds Requested: \$	Cost Matching Funds: \$		

Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? Yes No

Describe any other funding opportunities under consideration/available to this project: Local funding will be provided by SBVMWD, Western MWD and City of Riverside.

Project phases completed: Planning Design

Construction contract award date: 2011

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): EIR		
Permits Required and Status: No permits have been obtained yet.		
Land Acquisition Status, if required: City RPU owns the recharge land. Rubber dam will be in the river-bed.		
This project is an: <u>X</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: SBVMWD, WMWD, and Riverside.		
Main Challenges to Project Implementation: Funding, and water rights considerations in the Santa Ana River.		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Capture and recharge of storm water in SAR.
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
<input checked="" type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	Capture and recharge of storm water in SAR.
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
<input checked="" type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	Capture and recharge of storm water in SAR.
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: City of Riverside Public Utilities Department			
Contact Name	First: Max	Last: Rasouli	
Mailing Address	Street Address: 3901 Orange Street		
City: Riverside	State: CA	Zip: 92501	
Email: MRasouli@riversideca.gov	Phone: 951-826-5574	Fax: 951-826-2074	
Project Information			
Project Name: Riverside Pump Station #1 (Raub Regional Emergency Supply Project)			
Project Location: Intersection of Waterman Avenue and Orange Show Road (San Bernardino County)			
Watershed/Sub-watershed: Santa Ana River			
Groundwater Basin: Bunker Hill Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>This project was described in the SBVMWD Regional Water Facilities Master Plan DEIR, October 2000. This project consists of constructing an emergency supply connection between the City of Riverside’s supply pipeline in Waterman Avenue and San Bernardino Valley Municipal Water District (SBVMWD) Central Feeder pipeline in Orange Show Road, and drilling and equipping a new potable water well. The project includes constructing 700 feet of 42” pipeline; installing three pressure reducing valves; constructing a pump station with six 300 horsepower pumps; installing a generator unit; drilling and equipping the new well; and installing approximately 420 feet of 16-inch diameter transmission pipeline.</p> <p>The proposed project will provide greater reliability for both the City of Riverside and SBVMWD’s water supplies by interconnecting a portion of their systems. In the event of an emergency for one of the project partners, approximately 22,000 gpm (48 cfs) of water can flow in either direction. In addition, the new well will produce approximately 4,200 acre-feet per year (AFY) of groundwater. This would allow the City of Riverside and Western Municipal Water District (Western) to take advantage of increased water rights through new conservation at Seven Oaks Dam.</p>			
Annual Water Yield (AF):		Total Project Cost: \$8,000,000 year of estimate: 2008	

4,200 ac-ft/year	Fixed O&M: \$ 100,000/yr Variable O&M: \$ 200,000/yr
Funds Requested: \$	Cost Matching Funds: \$
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project: Local funding will be provided by SBVMWD, Western MWD and City of Riverside.	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date: 2011

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:		Date:
Title:		Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Program EIR was completed by SBVMWD in 2004 and City of Riverside is currently preparing a MND.		
Permits Required and Status: No permits have been obtained yet.		
Land Acquisition Status, if required: RPU owns land to drill well and construct a pump station.		
This project is an: <u>X</u> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: SBVMWD, WMWD, and Riverside.		
Main Challenges to Project Implementation: Funding and water quality issues.		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	Project provides up to 4,200 ac-ft per year of groundwater in the Bunker Hill Basin and distributing it for notable consumption.
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Emergency intertie for three systems: SBVMWD, Western MWD, and City of Riverside.
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: City of Riverside Public Utilities Department			
Contact Name	First: Max	Last: Rasouli	
Mailing Address	Street Address: 3901 Orange Street		
City: Riverside	State: CA	Zip: 92501	
Email: MRasouli@riversideca.gov	Phone: 951-826-5574	Fax: 951-826-2074	
Project Information			
Project Name: Waterman-gage Intertie			
Project Location: Waterman Avenue (San Bernardino County)			
Watershed/Sub-watershed: Santa Ana River			
Groundwater Basin: Bunker Hill Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Water is supplied to the City of Riverside (City) by two main supply lines: the San Bernardino Transmission Main or Waterman line and the Gage Transmission Main. The Waterman line delivers water from the Garner, Cooley, and Raub well tracts. The Gage pipeline, which is owned by the City and jointly operated with the Gage Canal Company (Gage), delivers water from the Gage well field. Together, the Waterman line and the Gage line deliver approximately 75 percent of the City's groundwater production.</p> <p>Under a pipeline funding and capacity purchase agreement between the City of Riverside Public Utilities (RPU) and Western Municipal Water District (WMWD), WMWD has the option to acquire up to 21 percent of the total pipeline capacity of a portion of the Waterman line, which can be exercised to secure water delivery for their needs. Thus, the need for redundancy and operational flexibility within RPU's two main water supply lines is of critical importance in order to ensure a local and reliable supply of water to the City as well as WMWD's customers.</p> <p>The construction of the Waterman-Gage Intertie Project (Intertie) would increase the operational flexibility and reliability of supplying water to the City and WMWD, helping to ensure the availability of potable water conveyed from the Bunker Hill Basin. This is especially critical for the City as about 75 percent of the City's water is supplied by the Waterman and Gage transmission mains.</p>			

Annual Water Yield (AF): ac-ft/year	Total Project Cost: \$5,000,000 year of estimate: 2008 Fixed O&M: \$ 100,000/yr Variable O&M: \$ 100,000/yr
Funds Requested: \$	Cost Matching Funds: \$
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project: Local funding will be provided by City of Riverside.	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date: 2011

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:		Date:
Title:		Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): City of Riverside is currently preparing a MND.		
Permits Required and Status: No permits have been obtained yet.		
Land Acquisition Status, if required: RPU owns land to drill well and construct a pump station.		
This project is an: <u>X</u> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases _____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any: Riverside.		
Main Challenges to Project Implementation: Funding and water quality issues.		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Intertie for the City of Riverside's two Bunker Hill Basin water transmission pipelines.
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: RUBIDOUX COMMUNITY SERVICES DISTRICT			
Contact Name	First: STEVE	Last: APPEL	
Mailing Address	Street Address: 3590 RUBIDOUX BLVD		
City: RIVERSIDE	State: CA	Zip: 92509	
Email: steve@rcsd.org	Phone: (951) 684-7580	Fax: (951) 369-4061	
Project Information			
Project Name: SEPTIC SYSTEM ELIMINATION WATER SOURCE PROTECTION			
Project Location: VARIOUS			
Watershed/Sub-watershed:			
Groundwater Basin: RIVERSIDE SOUTH			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): THE RCSD RELIES 100% ON LOCAL GROUNDWATER FOR OUR POTABLE WATER SUPPLY. INCOMPLETE EXPANSION OF THE DISTRICT'S SEWAGE COLLECTION SYSTEM HAS ALLOWED NEW RESIDENTIAL AND COMMERCIAL DEVELOPMENT TO PROCEED WITH SEPTIC SYSTEMS. THE MAJORITY OF THESE APPROVALS ARE "UPGRADIENT" TO THE DISTRICT'S POTABLE WELLS POTENTIALLY LEADING TO CONTAMINATION. THE PROPOSED PROJECT INCLUDES THE INSTALLATION OF APPROX. 15,000 LF OF 8" & 10" SEWER MAINS IN THE AREAS OF HIGHEST SEPTIC SYSTEM CONCENTRATIONS.			
Annual Water Yield (AF): UNK	Total Project Cost: \$ 3,000,000 year of estimate: 2008 Fixed O&M: \$ UNK /yr Variable O&M: \$ UNK /yr		
Funds Requested: \$3,000,000	Cost Matching Funds: \$		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: NONE KNOWN.			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date:	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>XX</u> No	If no, Expected Date of Adoption: JUNE 2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): CAT EX		
Permits Required and Status: ENCROACHMENT PERMITS FROM THE COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT		
Land Acquisition Status, if required: NONE. ALL CONSTRUCTION WITHIN THE PUBLIC ROAD RIGHTS-OF-WAY		
This project is an: <u>XX</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: NONE		
Main Challenges to Project Implementation: FUNDING		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<u>XX</u> Safe and reliable drinking water supply for small or disadvantaged communities.	THE COMMUNITY OF RUBIDOUX HAS BEEN DETERMINED TO BE A DISADVANTAGED COMMUNITY
<u>XX</u> Drinking water treatment and distribution.	THE PROJECT INVOLVES THE ELIMINATION OF SEPTIC SYSTEMS, THEREBY PROTECTING THE LOCAL GROUNDWATER
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency or Organization: RUBIDOUX COMMUNITY SERVICES DISTRICT			
Contact Name	First: STEVE	Last: APPEL	
Mailing Address	Street Address: 3590 RUBIDOUX BLVD		
City: RIVERSIDE	State: CA	Zip: 92509	
Email: steve@rcsd.org	Phone: (951) 684-7580	Fax: (951) 369-4061	
Project Information			
Project Name: EMERGENCY INTERCONNECTIONS			
Project Location: VARIOUS			
Watershed/Sub-watershed:			
Groundwater Basin: RIVERSIDE SOUTH			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): THE PROPOSED PROJECT INVOLVES THE DESIGN AND CONSTRUCTION OF BI-DIRECTIONAL INTERCONNECTION FACILITIES WITH OUR NEIGHBORING WATER SUPPLY AGENCIES (JURUPA COMMUNITY SERVICES DISTRICT AND WEST VALLEY WATER DISTRICT), THIS PROJECT WILL IMPROVE THE RELIABILITY AND REDUNDANCY OF OUR LOCAL WATER SUPPLIES IN A COST-EFFECTIVE MANNER. THE GOAL OF THE PROJECT WILL MINIMIZE INTENTIONAL OR UNINTENTIONAL DISRUPTION OF WATER SERVICE TO OUR COMMUNITY, MEETING THE DISTRICT'S GOAL OF PROVIDING SAFE AND RELIABLE DRINKING WATER TO OUR CUSTOMERS. THE PROJECT WILL HELP DISTRIBUTE THE ADDITIONAL WATER PROVIDED BY THE WELL 17 AND 18 MANGANESE TREATMENT PROJECT (RB-3).			
Annual Water Yield (AF): UP TO 2,400 AF/CONNECTION	Total Project Cost: \$ 2,000,000 year of estimate: 2008 Fixed O&M: \$ UNK /yr Variable O&M: \$ UNK /yr		
Funds Requested: \$2,000,000	Cost Matching Funds: \$		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: NONE KNOWN.			

Project phases completed: <u>XX</u> Planning <u> </u> Design	Construction contract award date:
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Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes XX No	If no, Expected Date of Adoption: JUNE 2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): CAT EX OR ND		
Permits Required and Status: ENCROACHMENT PERMITS FROM THE COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT		
Land Acquisition Status, if required: NONE. PROPOSED PROJECT SITES TO BE LOCATED WITHIN THE PUBLIC ROAD RIGHTS-OF-WAY		
This project is an: XX Independent operable project ___Operable segment of larger project If larger project, # of expected phases ___		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: PARTNERS INCLUDE THE JURUPA COMMUNITY SERVICES DISTRICT (JCS D) AND THE WEST VALLEY WATER DISTRICT (WVWD)		
Main Challenges to Project Implementation: FUNDING		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<u>XX</u> Safe and reliable drinking water supply for small or disadvantaged communities.	THE COMMUNITY OF RUBIDOUX HAS BEEN DETERMINED TO BE A DISADVANTAGED COMMUNITY
<u>XX</u> Drinking water treatment and distribution.	THE PROJECT INVOLVES THE CONSTRUCTION OF UP TO 5 INTERCONNECTIONS BETWEEN THE RCSD/JCSD/WVWD
___ Resolution of significant water-related conflicts.	
<u>XX</u> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	THE PROJECT INVOLVES THE CONSTRUCTION OF UP TO 5 INTERCONNECTIONS BETWEEN THE RCSD/JCSD/WVWD
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: RUBIDOUX COMMUNITY SERVICES DISTRICT			
Contact Name	First: STEVE	Last: APPEL	
Mailing Address	Street Address: 3590 RUBIDOUX BLVD		
City: RIVERSIDE	State: CA	Zip: 92509	
Email: steve@rcsd.org	Phone: (951) 684-7580	Fax: (951) 369-4061	
Project Information			
Project Name: WELL 17 AND 18 MANGANESE REMOVAL TREATMENT FACILITY			
Project Location: 5245 34TH ST, RIVERSIDE, CA 92509 (APN 179-230-001)			
Watershed/Sub-watershed:			
Groundwater Basin: RIVERSIDE SOUTH			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): THE PROPOSED PROJECT INVOLVES THE DESIGN AND CONSTRUCTION OF A 5,000 GPM (MAX) MANGANESE REMOVAL TREATMENT FACILITY ON DISTRICT OWNED PROPERTY. THE PROJECT WILL TREAT THE WATER, USING AN OXIDATION AND FILTRATION PROCESS, FROM 2 EXISTING ON-SITE GROUNGWATER WELLS, EACH WITH MN LEVELS ABOVE THE SECONDARY MCL. CONSTRUCTION OF THIS FACILITY WILL ALLOW THE DISTRICT TO USE BOTH WELLS FOR POTABLE PURPOSES, MEETING THE DISTRICT'S GOAL OF PROVIDING SAFE AND RELIABLE DRINKING WATER TO OUR CUSTOMERS. PROJECT ALSO INCLUDES TRANSMISSION AND DISTRIBUTION SYSTEMS THAT WILL HELP SUPPLY WATER TO THE REGIONAL SYSTEM (CITY OF NORCO, CORONA, JCSD, AND LLWD).			
Annual Water Yield (AF): 7,900 AF	Total Project Cost: \$ 5,000,000 year of estimate: 2008 Fixed O&M: \$ <u>UNK</u> /yr Variable O&M: \$ <u>UNK</u> /yr		
Funds Requested: \$5,000,000	Cost Matching Funds: LOCAL FUNDING AVAILABLE BUT LOOKING FOR GRANT FUNDING		

Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? Yes No

Describe any other funding opportunities under consideration/available to this project:

APPLIED FOR FUNDING THROUGH THE SDWSRF AND POSSIBLY MWD LRP.

Project phases completed: Planning Design

Construction contract award date: READY
TO BID

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: DESIGN OF TRANSMISSION LINE	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes XX No	If no, Expected Date of Adoption: JUNE 2008 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): CAT EX OR ND, IN PROGRESS		
Permits Required and Status: NONE		
Land Acquisition Status, if required: NONE. ALL CONSTRUCTION ON DISTRICT OWNED PROPERTY		
This project is an: XX Independent operable project ___ Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any:		
Main Challenges to Project Implementation: FUNDING		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<u>XX</u> Safe and reliable drinking water supply for small or disadvantaged communities.	THE COMMUNITY OF RUBIDOUX HAS BEEN DETERMINED TO BE A DISADVANTAGED COMMUNITY
<u>XX</u> Drinking water treatment and distribution.	THE PROJECT INVOLVES THE CONSTRUCTION OF A MN REMOVAL TREATMENT FACILITY
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<u>XX</u> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	THE PROPOSED PROJECT INVOLVES THE REMOVAL OF MN FROM THE LOCAL GROUNDWATER SUPPLY
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



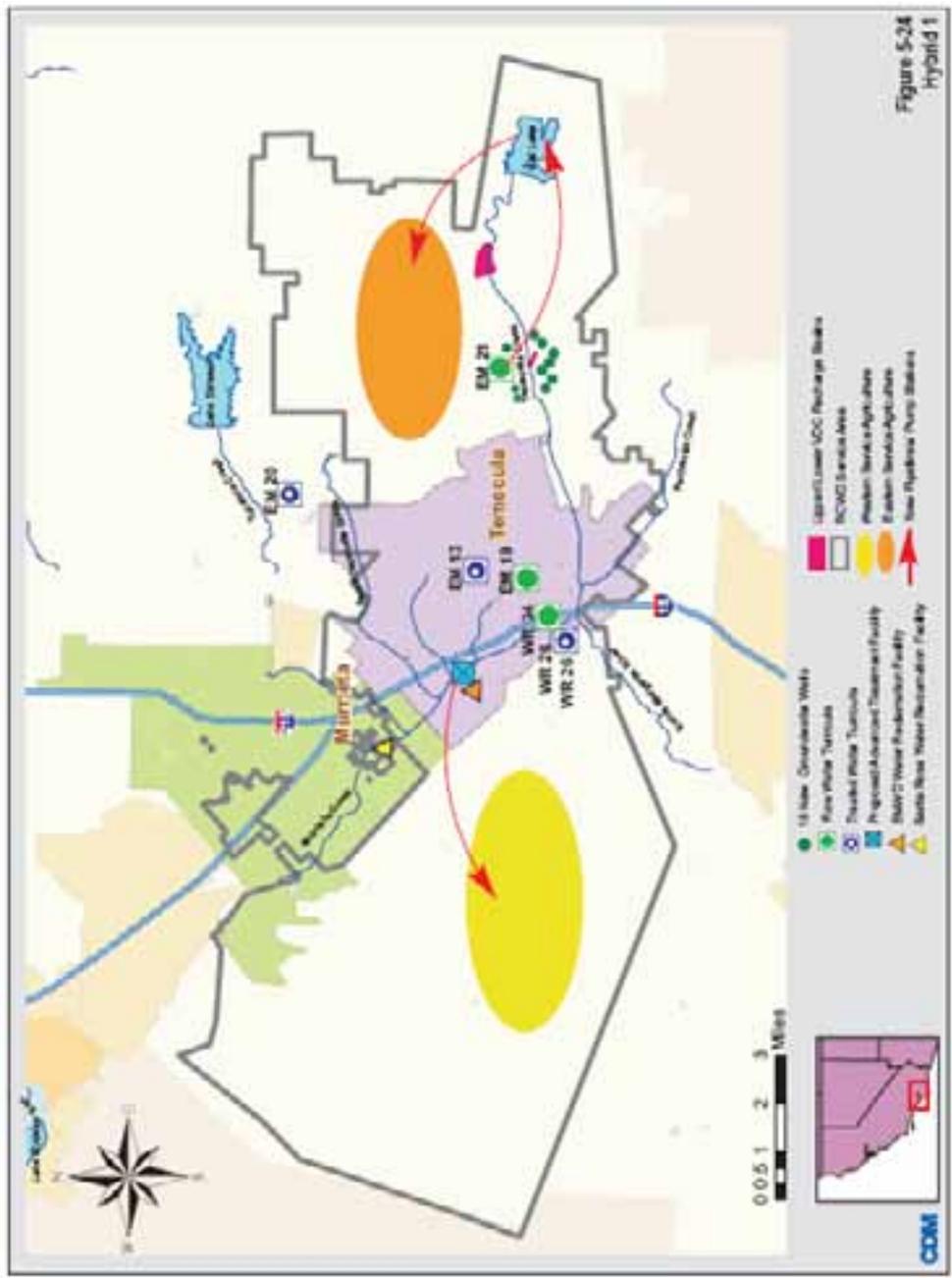
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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Rancho California Water District			
Contact Name	First: Tim	Last: Barr	
Mailing Address	Street Address: 42135 Winchester Road		
City: Temecula	State: CA	Zip: 92590	
Email: barrt@ranchowater.com	Phone: (951) 296-6900	Fax: (951) 296-6860	
Project Information			
Project Name: MF/RO Treatment Plant for Recycled Water			
Project Location: In RCWD Rancho Division near EMWD Reclamation Plant and Murrieta Creek			
Watershed/Sub-watershed: Santa Margarita Watershed			
Groundwater Basin: Temecula Valley			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project and a map showing project area/location): The project will construct a 6.8 cfs MF/RO treatment plant to treat and deliver recycled water to agricultural demands in Pressure Zones 1440 and 1670. Water will be treated to meet TDS concentration requirements of 500 mg/L or less for high value agricultural needs. The attached exhibit from the RCWD 2005 Integrated Plan shows the needed facilities for this project, which is part of the Hybrid 1 Alternative to deliver treated recycled water and imported water for irrigation uses.			
Annual Water Yield (AF): Up to 5,000 AFY (6.8 cfs capacity)	Total Project Cost: \$ 30,500,000 (escalated from 2004 cost of \$27,500,000) year of estimate: <u>2008</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$	Cost Matching Funds: \$		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: Project is a candidate for MWD LRP funding.			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design			Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: RCWD Regional Integrated Resources Plan	Consultant: CDM	Date: Oct 2005
Title: Upper Santa Margarita Watershed Integrated Regional Water Management Plan	Consultant: CDM	Date: July 2007
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): EIR		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <u>X</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: None		
Main Challenges to Project Implementation: funding		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Project will use MF/RO to treat recycled water for irrigation use. Will also likely reduce MWD peaking on potable system.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	





WMWD Integrated Regional Water Management Plan Project Information Form
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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Santa Ana River Water Company			
Contact Name	First: Arnold	Last: Rodriguez	
Mailing Address	Street Address: 10530 54 th St.		
City: Mira Loma	State: CA	Zip: 91752	
Email: jarodriguez@sarwc.com	Phone: (909) 685-6503	Fax:	
Project Information			
Project Name: Intertie #1 and #2 with JCSD			
Project Location: Intertie #1 at Dodd and Bellegrave and Intertie #2 at 63 rd St. and Etiwanda			
Watershed/Sub-watershed: Middle Santa Ana River/Chino (Split)			
Groundwater Basin: Chino Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): Interties #1 and #2 to the JCSD system were used as standby sources in the past and served daily uses when SARWC wells were shutdown because of water quality issues. With the use of Chino Desalter Agency water from Intertie #3, Interties #1 and #2 were no longer used. The project will retrofit Interties #1 and #2 as emergency standby sources. Intertie #2 is currently manually operated during high demand periods and will be retrofitted with a PRV to allow for automatic operation.			
Annual Water Yield (AF):	Total Project Cost: \$ _____ year of estimate: _____ Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$	Cost Matching Funds: \$		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project:			
Project phases completed: <input type="checkbox"/> Planning <input type="checkbox"/> Design			Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes ___No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: ___Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: JCSD		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Santa Ana River Water Company			
Contact Name	First: Arnold	Last: Rodriguez	
Mailing Address	Street Address: 10530 54 th St.		
City: Mira Loma	State: CA	Zip: 91752	
Email: jarodriguez@sarwc.com	Phone: (909) 685-6503	Fax:	
Project Information			
Project Name: Wells 1A, 3, and 3a Connection to CDA/JCSD?			
Project Location: Well 1A is on 63 rd and Wineville, Wells 3 and 3A are East of Bellegrave and Troth.			
Watershed/Sub-watershed: Middle Santa Ana River/Chino (Split)			
Groundwater Basin: Chino Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): Wells 1A, 3, and 3A are no longer active due to low quality water. The project will activate the wells and draw up to 1,300 GPM from wells 3 and 3A (combined) and 700 GPM from well 1A. The water will be conveyed to either the Chino Desalter Agency facility (which one) or the JCSD Ion Exchange Treatment Plant for treatment to potable water supply. SARWC could use this supply to either lease water rights, offset it's Chino Basin water rights, or lease the wells.			
Annual Water Yield (AF): 3200	Total Project Cost: \$ _____ year of estimate: _____		
	Fixed O&M: \$___/yr		
	Variable O&M: \$___/yr		
Funds Requested: \$ _____	Cost Matching Funds: \$ _____		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project:			

Project phases completed: <u> </u> Planning <u> </u> Design	Construction contract award date:
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Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes ___No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: ___Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: JCSD		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Jurupa CSD/Santa Ana River Water Company			
Contact Name	First: Arnold	Last: Rodriguez	
Mailing Address	Street Address: 10530 54 th St.		
City: Mira Loma	State: CA	Zip: 91752	
Email: jarodriguez@sarwc.com	Phone: (909) 685-6503	Fax:	
Project Information			
Project Name: Septic Replacement			
Project Location: Old Mira Loma between Etiwanda Ave. and Bain St. from Bellegrave South to the River			
Watershed/Sub-watershed: Middle Santa Ana River/Chino (Split)			
Groundwater Basin: Chino Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project and a map showing project area/location): The proposed project will consist of abandoning septic systems for approximately 1,000 homes and constructing a sewer system including a sewer lift station, onsite and offsite piping and appurtenances to provide service to residents currently served by septic systems in the SARWC service area. These properties are provided water service by SARWC which does not provide sewer services. Typically sewer services for this area are within JCSD jurisdiction. The project would provide more reliable sewer services for residents in a disadvantaged community.			
Annual Water Yield (AF): NA	Total Project Cost: \$ 10-15M	year of estimate: <u>2009</u>	
	Fixed O&M: \$___/yr		
	Variable O&M: \$___/yr		
Funds Requested: \$ 15M	Cost Matching Funds: \$ 0		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: NONE			

Project phases completed: <u> </u> Planning <u> </u> Design	Construction contract award date: 7/2010
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Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>x</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption: 2009	
CEQA-document type (Cat Ex; ND/MND, EIR): no		
Permits Required and Status: County of Riverside Department of Public Health		
Land Acquisition Status, if required: Has not been determined as of this date.		
This project is an: <u>X</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases___		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: WMWD, SARWC, City of Riverside		
Main Challenges to Project Implementation: Cost is prohibitive to individual homeowners		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	Project will remove septic systems which contribute to groundwater quality problems.
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Project will provide sewer service for areas currently served by septic systems.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Lake Elsinore & San Jacinto Watersheds Authority			
Contact Name	First: Mark	Last: Norton	
Mailing Address	Street Address: 11615 Sterling Avenue		
City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: Lake Elsinore Water Quality Improvement Project, Phase I			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): LESJWA has developed a phased approach to implement projects for Lake Elsinore to meet the short-term and long-term lake water quality goals and nutrient loading criteria and supplemental water requirements to maintain the lake operating levels within the desired elevation range.			
The Phase 1 project constructs facilities to transfer and treat 8 mgd of water to Lake Elsinore. This project includes the construction of an 8 mgd chemical phosphorus treatment facility at the existing Elsinore Valley MWD RWRf. Supporting this facility will be the construction of a turnout facility with 6,200 ft of 30 in pipeline to convey unused reclaimed water from EMWD that is discharged at Wasson Sill to the existing Elsinore Valley MWD RWRf.			
Annual Water Yield (AF): 8,960	Total Project Cost: \$ 4,194,000 (projected from 2004 est.) year of estimate: <u>2008</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$ 2,700,000	Cost Matching Funds: \$ 900,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project:			

Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:
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Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Nutrient Removal Study for Lake Elsinore	Consultant: CH2MHill	Date: 2004
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input type="checkbox"/> Independent operable project <input checked="" type="checkbox"/> Operable segment of larger project If larger project, # of expected phases <u>2</u>		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	The project provides for 8 mgd of chemical phosphorus treatment of reclaimed water used to supply Lake Elsinore.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input checked="" type="checkbox"/> Non-point source pollution reduction, management and monitoring.	The project by supporting stabilized lake levels for Lake Elsinore will lessen the impacts to in-lake water quality from inputs of stormwater.
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Lake Elsinore & San Jacinto Watersheds Authority			
Contact Name	First: Mark	Last: Norton	
Mailing Address	Street Address: 11615 Sterling Avenue		
City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: Lake Elsinore Water Quality Improvement Project, Phase II			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): LESJWA has developed a phased approach to implement projects for Lake Elsinore to meet the short-term and long-term lake water quality goals and nutrient loading criteria and supplemental water requirements to maintain the lake operating levels within the desired elevation range. The Phase 2 project constructs a 10 mgd remote transfer granular media filtration process at the existing Elsinore Valley MWD RWRf. This system will employ a two-stage Dynasand filtration process.			
Annual Water Yield (AF): 11,200	Total Project Cost: \$ 5,500,000 (projected from 2004 est.) year of estimate: <u>2008</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$ 3,543,750	Cost Matching Funds: \$ 1,181,250		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project:			

Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:
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Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Nutrient Removal Study for Lake Elsinore	Consultant: CH2MHill	Date: 2004
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases <u>2</u>		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	The project develops a 10 mgd of granular media filtration system to remove phosphorus from treated water used to supply Lake Elsinore.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input checked="" type="checkbox"/> Non-point source pollution reduction, management and monitoring.	The project by supporting stabilized lake levels for Lake Elsinore will lessen the impacts to in-lake water quality from inputs of stormwater.
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Lake Elsinore & San Jacinto Watersheds Authority			
Contact Name	First: Mark	Last: Norton	
Mailing Address	Street Address: 11615 Sterling Avenue		
City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: Lake Elsinore Fishery Enhancement Project			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): Lake Elsinore Fishery Enhancement Project is a key component of an adaptive fishery enhancement and maintenance program intended to create a balanced, self-sustaining and valued sport fishery, which complements efforts to rehabilitate lake water quality. The management strategies of this project identified to address impairment and provide a reasonable framework for implementation include:</p> <ol style="list-style-type: none"> 1. Carp control; 2. Zooplankton enhancement; 3. Aquatic and emergent vegetation restoration; 4. Fish habitat improvement; and 5. Fish community structure improvement. <p>Due to the complex nature of the Lake Elsinore ecosystem, this project will employ a long-term monitoring program coupled with a commitment of adoptive management to ensure optimal enhancement of the fishery. Through this approach, management strategies are implemented based on best available information, and through a comprehensive monitoring program are tracked to assess their effectiveness. Monitoring will be yearly and primarily include fish seining and gill net sampling. Fish species composition, abundance, age and size distribution, growth, relative condition, and recruitment to the adult population will be monitored and assessed for positive (or negative) trends resulting from implementation of various management strategies.</p>			

*Note, components of this project are already being implemented and funded.

Annual Water Yield (AF): -NA-	Total Project Cost: \$ 1,700,000 year of estimate: _____ Fixed O&M: \$___/yr Variable O&M: \$___/yr
Funds Requested: \$ 1,275,000	Cost Matching Funds: \$ 425,000
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Fisheries Management Plan for Lake Elsinore	Consultant: EIP	Date: 2005
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input type="checkbox"/> Independent operable project <input checked="" type="checkbox"/> Operable segment of larger project If larger project, # of expected phases <u>2</u>		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input checked="" type="checkbox"/> Non-point source pollution reduction, management and monitoring.	The fishery management plan will result in the reduction of the number of Carp in Lake Elsinore. The removal of Carp will decrease the amount of available
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	This project will create a balanced, self-sustaining and valued sport fishery, which complements efforts to rehabilitate lake water quality.
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Lake Elsinore & San Jacinto Watersheds Authority			
Contact Name	First: Mark	Last: Norton	
Mailing Address	Street Address: 11615 Sterling Avenue		
City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: Lake Elsinore Back Basin Wetlands Rehabilitation Project			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): LESJWA has developed a phased approach to implement projects for Lake Elsinore to meet the short-term and long-term lake water quality goals and nutrient loading criteria and supplemental water requirements to maintain the lake operating levels within the desired elevation range.</p> <p>The Phase 3 project constructs a 100 acre treatment wetland. Project includes the construction of Intake Structure and Pump Station with a 12 in pipeline and a pump station with an 8 in pipeline used to circulate water in the back Basin, as well as, modification of 100 acres of the Lake Elsinore Back Basin Wetland to treat for the removal of nutrients from water flowing into lake Elsinore. The treatment wetland has been sized to 100 acres to limit evaporative losses. Water will be circulated through the wetland on an annual basis to allow for the maximum removal of nutrients.</p>			
Annual Water Yield (AF): 1,120	Total Project Cost: \$ 2,476,000 (projected from 2004 est.) year of estimate: <u>2008</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$ 1,593,750	Cost Matching Funds: \$ 531,250		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Describe any other funding opportunities under consideration/available to this project:

Project phases completed: Planning Design

Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Nutrient Removal Study for Lake Elsinore	Consultant: CH2MHill	Date: 2004
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input type="checkbox"/> Independent operable project <input checked="" type="checkbox"/> Operable segment of larger project If larger project, # of expected phases <u>2</u>		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input checked="" type="checkbox"/> Non-point source pollution reduction, management and monitoring.	The treatment wetlands will provide treatment based upon an average phosphorus removal rate of 10 m/yr, a hydraulic loading rate of 0.6 in/day and an influent
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	The project will improve 100 acres of an available 300 acres of mitigation land in the Lake Elsinore Back Basin into treatment wetlands.
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Lake Elsinore & San Jacinto Watersheds Authority			
Contact Name	First: Mark	Last: Norton	
Mailing Address	Street Address: 11615 Sterling Avenue		
City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: Lake Elsinore Alum Treatment Project			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The Lake Elsinore Alum Treatment Project will provide for the temporary treatment of in-lake water quality from inputs of high concentrations of phosphorus from the San Jacinto River Watershed.</p> <p>Aluminum sulfate (alum) is a metal salt that can combine with inorganic phosphorus and/or remove phosphorus-containing particles from the water column. The alum application will reduce phosphorus concentrations in the water column by binding phosphorus to the sediments; thus, reducing the potential for algae growth.</p> <p>Of all metal salts, aluminum is the most effective for this purpose because phosphorus binds tightly to its salts over a wide range of conditions including low or zero dissolved oxygen. When alum is added to water, it forms aggregates of aluminum hydroxide. These aggregates grow into a visible, brownish floc. The floc contains aluminum hydroxide, phosphorus (which is bound to its surface) and bits of organic and inorganic matter. Over the course of several hours, the floc settles to the sediment surface forming a layer 1 to 2 inches thick. The alum application rapidly clears the water and the floc significantly retards the recycling of phosphorus from the sediment into the water column.</p>			
Annual Water Yield (AF): -NA-	Total Project Cost: \$ 2,500,000 year of estimate: <u>2007</u> Fixed O&M: \$ <u> </u> /yr		

	Variable O&M: \$___/yr	
Funds Requested: \$ 1,875,000	Cost Matching Funds: \$ 625,000	
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Describe any other funding opportunities under consideration/available to this project:		
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Lake Elsinore In-lake Water Quality Treatment Plan Environmental Impact Report	Consultant: Dr. Michael Anderson / UC Riverside	Date: 2007
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
x Non-point source pollution reduction, management and monitoring.	Study suggests an alum dose of 48 g Al/m ² would sequester mobile phosphorus within the surface sediments to provide for the temporary treatment of the
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
x Watershed protection and management.	The project provides for the temporary treatment of the impacts to in-lake water quality from inputs of high concentrations of phosphorus from stormwater.
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency or Organization: Lake Elsinore & San Jacinto Watersheds Authority			
Contact Name	First: Mark	Last: Norton	
Mailing Address	Street Address: 11615 Sterling Avenue		
City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: San Jacinto Urban Runoff Treatment & Control Study			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): San Jacinto Urban Runoff Treatment & Control Study is will assess the flows and water quality associated with nuisance urban runoff to Lake Elsinore and Canyon Lake and analyze management options to reduce pollutant loads and implement recommended projects. This study will include the following components:</p> <ul style="list-style-type: none"> · Characterization of nuisance urban runoff · Assessment of impacts to Lake Elsinore and Canyon Lake · Review of BMP technologies · Recommend BMP's for Canyon Lake and Lake Elsinore <p>Nuisance flows from urban areas are considered to be an active source of pollutants to both Lake Elsinore and Canyon Lake. Such flows, characteristic of dry periods, derive from common urban practices such as lawn irrigation, car washing, etc., and result in transport of relatively high concentrations of bacteria. Nutrients are also likely transported from these areas through lawn fertilization. Quantification of these sources is often difficult due to the temporal variability associated with magnitudes of urban runoff and water quality.</p>			
Annual Water Yield (AF): -NA-	Total Project Cost: \$ 291,000 (projected from 2004 est.) year of estimate: <u>2008</u>		

	Fixed O&M: \$___/yr Variable O&M: \$___/yr
Funds Requested: \$ 187,500	Cost Matching Funds: \$ 62,500
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Lake Elsinore and Canyon Lake Nutrient Source Assessment	Consultant: Tetra Tech	Date: 2002
Title: San Jacinto Nutrient Management Plan	Consultant: Tetra Tech	Date: 2003
Title: Lake Elsinore and Canyon Lake Nutrient TMDL Report	Consultant: Santa Ana Regional Water Quality Control Board	Date: 2004
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input checked="" type="checkbox"/> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input checked="" type="checkbox"/> Non-point source pollution reduction, management and monitoring.	Reducing nutrients from urban runoff may be a key component in reducing nutrient runoff contributions to Lake Elsinore and Canyon Lake.
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	Reducing nutrients from urban stormwater runoff may be a key component in reducing nutrient runoff contributions to Lake Elsinore and Canyon Lake.
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Contact Name	First: Mark	Last: Norton	
Mailing Address	Street Address: 11615 Sterling Avenue		
City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: San Jacinto River Riparian Habitat Restoration Project			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): San Jacinto River Riparian Habitat Restoration Project will develop floodplains and protect against further degradation associated with urban development within the San Jacinto watershed. This includes project specific restoration designs to improve water quality and the structure and function of the native riparian habitat for wildlife, especially migratory birds. Site specific design decisions will depend on topography, availability of rights-of-way, and the potential for local water diversions.</p> <p>The selection of appropriate locations for restoration, as well as, defining the type of restoration required for each site will include the following elements:</p> <p>Water Supply: determine the expected amount of flow that is available to support restoration. The water supply could include urban runoff, storm flows, groundwater or subsurface flow, or domestic sources.</p> <p>Hydraulics : based on the requirement to convey the 100-year flood, determine if any drain sections that have excess capacity, and if so, how much vegetation could be supported without interfering with conveyance.</p> <p>Vegetation Plan: Study to determine the types of vegetation that would provide the optimal habitat for the area. The recommended vegetation plan would be dependent on the determined</p>			

water availability.

Land Ownership: Determine the land ownership adjacent to the channel right-of way.

Annual Water Yield (AF): -NA-	Total Project Cost: \$ 350,000 (projected from 2004 est.) year of estimate: <u>2008</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr
Funds Requested: \$ 225,000	Cost Matching Funds: \$ 75,000
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Lake Elsinore and Canyon Lake Nutrient Source Assessment	Consultant: Tetra Tech	Date: 2002
Title: San Jacinto Nutrient Management Plan	Consultant: Tetra Tech	Date: 2003
Title: Lake Elsinore and Canyon Lake Nutrient TMDL Report	Consultant: Santa Ana Regional Water Quality Control Board	Date: 2004
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input checked="" type="checkbox"/> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input checked="" type="checkbox"/> Non-point source pollution reduction, management and monitoring.	Improved buffer areas along streambanks can provide control of sediment eroded from agricultural areas that are high in nutrient content. Runoff quality will also be
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	Restored riparian areas can be constructed as local retention/detention basins to capture flows resulting from urban runoff from upstream areas (i.e., Moreno Valley, Hemet, and San Jacinto) and local runoff from agricultural areas. This will aid in runoff control by reducing the volume of runoff through processes of infiltration.
<input checked="" type="checkbox"/> Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	Riparian habitat serves as a buffer zone between agricultural areas and sensitive receiving waters. Riparian areas support a variety of plant life that helps to provide treatment of runoff from these areas. Restored riparian areas can be constructed as local retention/detention basins to capture flows resulting from urban runoff from upstream areas (i.e., Moreno Valley, Hemet, and San Jacinto) and local runoff from agricultural areas.
___ Evaluation of climate change impacts on the state's water supply and flood control systems	

___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	
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Agency Information			
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Contact Name	First: Mark	Last: Norton	
Mailing Address	Street Address: 11615 Sterling Avenue		
City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: San Jacinto Manure Management Study			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): Study proposed to develop a manure management plan within the San Jacinto River watershed to establish acceptable agronomic rates for manure and fertilizer application to specific croplands in the watershed. This information will be used to support future management of nutrients in agricultural areas in the watershed, including the budgeting of collective loads associated with application of either manure, industrial fertilizer, or recycled water, as well as, provide a vehicle to establish incentives for voluntary nutrient reductions, address watershed-based initiatives, and facilitate the implementation of TMDL's.</p> <p>Study will develop the following information:</p> <ol style="list-style-type: none"> 1) Spatial inventory (GIS) of crop distributions in the watershed; if crops are rotated throughout the year, each crop and associated season will be included in the inventory. 2) Estimation of seasonal nutrient application rates for each crop type. For both fertilizer and manure, content will be assessed to determine quantities of nitrogen and phosphorus. If management of specific farms varies significantly for identical crop types, nutrient application rates will be estimated and catalogued separately for each farm so that spatial variability in the watershed will be representative of such conditions. 3) Estimation of agronomic rates associated with each crop type for both nitrogen and phosphorus. 			

Annual Water Yield (AF):	Total Project Cost: \$ 233,000 (projected from 2004 est.) year of estimate: <u>2008</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr
Funds Requested: \$ 150,000	Cost Matching Funds: \$ 50,000
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Lake Elsinore and Canyon Lake Nutrient Source Assessment	Consultant: Tetra Tech	Date: 2002
Title: San Jacinto Nutrient Management Plan	Consultant: Tetra Tech	Date: 2003
Title: Lake Elsinore and Canyon Lake Nutrient TMDL Report	Consultant: Santa Ana Regional Water Quality Control Board	Date: 2004
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input checked="" type="checkbox"/> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input checked="" type="checkbox"/> Non-point source pollution reduction, management and monitoring.	The application of manure/fertilizer to cropland following standard agronomic rates will reduce the amount of nutrient available for runoff.
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	The application of manure/fertilizer to cropland following standard agronomic rates will reduce the amount of nutrient available for stormwater runoff.
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Lake Elsinore & San Jacinto Watersheds Authority			
Contact Name	First: Mark	Last: Norton	
Mailing Address	Street Address: 11615 Sterling Avenue		
City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: Lake Elsinore Water Quality Modeling Study			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): Study proposed to develop a dynamic model to simulate in-lake processes in response to time-variable inputs of nutrients under variable environmental conditions (i.e., water surface elevation, temperature). In addition, due to the unique geometry of the lake and the resulting hydrodynamics of the system, a 3-dimensional model was determined necessary to simulate the depth- variable kinetic and transport processes involving nutrients.</p> <p>Study proposes employing EFDC, a non-proprietary, comprehensive, 3-dimensional model capable of simulating hydrodynamics, salinity, temperature, suspended sediment, water quality, and the fate of toxic materials. EFDC is a widely accepted model approved and maintained by EPA and included as a component of EPA's TMDL Toolbox. The 3-dimensional EFDC model is capable of simulating 21 water quality parameters including dissolved oxygen, suspended algae (3 groups), various components of carbon, nitrogen, phosphorus and silica cycles, and fecal coliform bacteria. The kinetic processes include use of the Chesapeake Bay three-dimensional water quality model, CE-QUAL.ICM.</p> <p>The fully configured EFDC model of Lake Elsinore can be used to assess the system response to dynamic variations in nutrient loads resulting from varying hydrologic conditions in the region. Three hydrologic conditions will be tested to assess in-lake water quality as a function of variable nutrient loads and environmental influences that impact the assimilation of such loads in the lake.</p>			

Annual Water Yield (AF): -NA-	Total Project Cost: \$ 350,000 (projected from 2004 est.) year of estimate: <u>2008</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr
Funds Requested: \$ 225,000	Cost Matching Funds: \$ 75,000
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Lake Elsinore and Canyon Lake Nutrient Source Assessment	Consultant: Tetra Tech	Date: 2002
Title: San Jacinto Nutrient Management Plan	Consultant: Tetra Tech	Date: 2003
Title: Lake Elsinore and Canyon Lake Nutrient TMDL Report	Consultant: Santa Ana Regional Water Quality Control Board	Date: 2004
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input checked="" type="checkbox"/> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	A dynamic, 3-dimensional, water quality model of Lake Elsinore will provide information to help stakeholders gain a better understanding of in-lake nutrient processes and would help to evaluate the relative impacts of in-lake nutrient re-suspension and recycling, as compared to external source loading. Information gained from this model would be used to select effective BMPs to treat/reduce nutrient sources significantly impacting in-lake water quality.
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: Lake Elsinore & Canyon Lake Nutrient TMDL Monitoring			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
Project Description (incl. goal of project): Project would collect three years of water quality data to support the efforts of local stakeholders in implementing the Lake Elsinore and Canyon Lake Nutrient TMDLs. Effort would use established stations maintained under the TMDL monitoring program. Collection of water quality data is an important step in providing information regarding the condition of the lake, necessary data for configuration of predictive water quality models of the lake, assessment of the impact of various best management practices that seek to improve in- lake water quality and implementation plans suggested in the nutrient TMDL.			
Annual Water Yield (AF): -NA-	Total Project Cost: \$ 1,748,000 year of estimate: <u>2004</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$ 1,125,000		Cost Matching Funds: \$ 375,000	
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project:			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design			Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Lake Elsinore and Canyon Lake Nutrient Source Assessment	Consultant: Tetra Tech	Date: 2002
Title: San Jacinto Nutrient Management Plan	Consultant: Tetra Tech	Date: 2003
Title: Lake Elsinore and Canyon Lake Nutrient TMDL Report	Consultant: Santa Ana Regional Water Quality Control Board	Date: 2004
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input checked="" type="checkbox"/> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input checked="" type="checkbox"/> Non-point source pollution reduction, management and monitoring.	Monitoring of nutrients and TMDL related constituents provides important data necessary to characterize water quality and water quality related processes. This data
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	Monitoring of nutrients and TMDL related constituents provides important data necessary to characterize water quality and water quality related processes. This data is essential to understanding the relationship between storm runoff and in-lake water quality.
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



WMWD Integrated Regional Water Management Plan Project Information Form
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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Lake Elsinore & San Jacinto Watersheds Authority			
Contact Name	First: Mark	Last: Norton	
Mailing Address	Street Address: 11615 Sterling Avenue		
City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: San Jacinto Watershed Nutrient TMDL Pollutant Trading Study			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
Project Description (incl. goal of project): Study proposed to develop a pollutant trading model within the San Jacinto River watershed to provide a vehicle to establish incentives for voluntary nutrient reductions, address watershed-based initiatives, and facilitate the implementation of TMDL's. It will be developed in cooperation with the RWQCB and stakeholders of the Lake Elsinore & Canyon Lake Nutrient TMDL Task Force and will be linked with ongoing TMDL efforts. It will include a number of candidate project sites within the San Jacinto Watershed for implementation including Lake Elsinore, Canyon Lake, Mystic Lake, and agricultural and urban/residential areas located along the San Jacinto River. The model will be used to determine an optimal pollutant trading strategy from a number of alternative trading scenarios providing planning level estimates for treatment costs, pollutant load reductions, and institutional arrangements.			
Annual Water Yield (AF): -NA-	Total Project Cost: \$ 291,000 (projected from 2004 est.) year of estimate: <u> 2008 </u> Fixed O&M: \$ <u> </u> /yr Variable O&M: \$ <u> </u> /yr		
Funds Requested: \$ 187,500	Cost Matching Funds: \$ 62,500		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Describe any other funding opportunities under consideration/available to this project:

Project phases completed: Planning Design

Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Lake Elsinore and Canyon Lake Nutrient Source Assessment	Consultant: Tetra Tech	Date: 2002
Title: San Jacinto Nutrient Management Plan	Consultant: Tetra Tech	Date: 2003
Title: Lake Elsinore and Canyon Lake Nutrient TMDL Report	Consultant: Santa Ana Regional Water Quality Control Board	Date: 2004
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input checked="" type="checkbox"/> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input checked="" type="checkbox"/> Non-point source pollution reduction, management and monitoring.	Pollutant trading provides incentives and opportunities to most effectively reduce/remove nutrients contributions impacting water quality in the San
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	Pollutant trading provides incentives and opportunities to most effectively reduce/remove nutrients contributions impacting water quality in the San Jacinto Watershed, which will lead to the implementation of effective institutional strategies and BMPs for the control/reduction of nutrients from stormwater.
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Lake Elsinore & San Jacinto Watersheds Authority			
Contact Name	First: Mark	Last: Norton	
Mailing Address	Street Address: 11615 Sterling Avenue		
City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: Canyon Lake Dredging Enhancements			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
Project Description (incl. goal of project): The Canyon Lake Dredging Enhancements project will purchase 10 Dewatering Bins, a 950 wheel loader and develop mitigation habitat. Additional dewatering bins would enable the doubling of daily production of sediment removed from the lake. The purchase of a 950 wheel loader would allow for the more efficient loading and removal of the processed sediment. In addition, as required by the California Department of Fish and Game the project will develop mitigation habitat. Canyon Lake has acted as an interceptor for sediments. High sediment accumulation in the shallow East Bay has interfered with boating, and contributes to hydrogen sulfide odors and submerged weed growth. It is estimated that the average annual sediment loading in Canyon Lake is two to three inches per year of deposition per year, which is over 60 times the rate for a normal lake. This sedimentation has contributed to a loss of overall reservoir storage capacity (10,000 cubic yards, or 2 AF), an increase in total nutrient levels in lake bed sediments, a decrease in overall water quality of the lake, and a reduction in the recreational use of the lake due to the raising of the lake bed.			
Annual Water Yield (AF): -NA-	Total Project Cost: \$641,000 (projected from 2004 est.) year of estimate: <u> 2008 </u> Fixed O&M: \$ <u> </u> /yr Variable O&M: \$ <u> </u> /yr		

Funds Requested: \$ 412,500	Cost Matching Funds: \$ 137,500
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Lake Elsinore and Canyon Lake Nutrient Source Assessment	Consultant: Tetra Tech	Date: 2002
Title: San Jacinto Nutrient Management Plan	Consultant: Tetra Tech	Date: 2003
Title: Lake Elsinore and Canyon Lake Nutrient TMDL Report	Consultant: Santa Ana Regional Water Quality Control Board	Date: 2004
Title: Restoration of Canyon Lake and Benefits to Lake Elsinore Downstream	Consultant: Dr. Alex J. Horne	Date: 2004

Has CEQA been completed? ___Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input checked="" type="checkbox"/> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input checked="" type="checkbox"/> Non-point source pollution reduction, management and monitoring.	Project will improve water quality by reducing the amount of phosphorus- loaded sediment that drives eutrophication and shallow water nutrient mixing.
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	The project will address storm and flood management through the removal of sediments impacting Canyon Lake.
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Lake Elsinore & San Jacinto Watersheds Authority			
Contact Name	First: Mark	Last: Norton	
Mailing Address	Street Address: 11615 Sterling Avenue		
City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: Canyon Lake Alum Treatment Project			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The Canyon Lake Alum Treatment Project will provide for the temporary treatment of in-lake water quality from inputs of high concentrations of phosphorus from the San Jacinto River Watershed.</p> <p>Aluminum sulfate (alum) is a metal salt that can combine with inorganic phosphorus and/or remove phosphorus-containing particles from the water column. The alum application will reduce phosphorus concentrations in the water column by binding phosphorus to the sediments; thus, reducing the potential for algae growth.</p> <p>Of all metal salts, aluminum is the most effective for this purpose because phosphorus binds tightly to its salts over a wide range of conditions including low or zero dissolved oxygen. When alum is added to water, it forms aggregates of aluminum hydroxide. These aggregates grow into a visible, brownish floc. The floc contains aluminum hydroxide, phosphorus (which is bound to its surface) and bits of organic and inorganic matter. Over the course of several hours, the floc settles to the sediment surface forming a layer 1 to 2 inches thick. The alum application rapidly clears the water and the floc significantly retards the recycling of phosphorus from the sediment into the water column.</p>			
Annual Water Yield (AF): -NA-	Total Project Cost: \$ 1,748,000 (projected from 2004 est.) year of estimate: <u> 2008 </u>		

	Fixed O&M: \$___/yr Variable O&M: \$___/yr
Funds Requested: \$ 1,125,000	Cost Matching Funds: \$ 375,000
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Sediment Nutrient Flux and Oxygen Demand Study for Canyon Lake with Nutrient Monitoring and Assessment of In-Lake Alternatives.	Consultant: Dr. Michael Anderson / UC Riverside	Date: 2007
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>x</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input checked="" type="checkbox"/> Non-point source pollution reduction, management and monitoring.	Study suggests an alum dose of 50-125 g Al/m ² would sequester mobile phosphorus within the surface sediments to provide for the temporary treatment of the
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	The project provides for the temporary treatment of the impacts to in-lake water quality from inputs of high concentrations of phosphorus from stormwater.
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Lake Elsinore & San Jacinto Watersheds Authority			
Contact Name	First: Mark	Last: Norton	
Mailing Address	Street Address: 11615 Sterling Avenue		
City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: Stormwater Treatment Wetlands Study for Canyon Lake			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
Project Description (incl. goal of project): The Stormwater Treatment Wetlands Study for Canyon Lake will investigate opportunities to develop treatment wetlands up-stream of Canyon Lake to treat stormwater and other sources of supply. This study will include an investigation of the current impacts of stormwater on lake hydrology, water quality, habitat and recreational opportunities.			
Annual Water Yield (AF): -NA-	Total Project Cost: \$ 350,000 (projected from 2004 est.) year of estimate: <u>2008</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$ 225,000	Cost Matching Funds: \$ 75,000		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project:			

Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:
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Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Lake Elsinore and Canyon Lake Nutrient Source Assessment	Consultant: Tetra Tech	Date: 2002
Title: San Jacinto Nutrient Management Plan	Consultant: Tetra Tech	Date: 2003
Title: Lake Elsinore and Canyon Lake Nutrient TMDL Report	Consultant: Santa Ana Regional Water Quality Control Board	Date: 2004
Title: Restoration of Canyon Lake and Benefits to Lake Elsinore Downstream	Consultant: Dr. Alex J. Horne	Date: 2004

Has CEQA been completed? ___Yes <u>x</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <u>x</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
x Non-point source pollution reduction, management and monitoring.	Project will investigate opportunities to improve water quality through the development of treatment wetlands.
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
x Watershed protection and management.	Project will investigate opportunities to stabilize lake levels and manage storm flow.
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Lake Elsinore & San Jacinto Watersheds Authority			
Contact Name	First: Mark	Last: Norton	
Mailing Address	Street Address: 11615 Sterling Avenue		
City: Riverside	State: CA	Zip: 92503	
Email: mnorton@sawpa.org	Phone: (951) 354-4220	Fax: (951) 352-3422	
Project Information			
Project Name: Aeration System for Canyon Lake			
Project Location: Lake Elsinore			
Watershed/Sub-watershed: San Jacinto			
Groundwater Basin: -NA-			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The Aeration System for Canyon Lake will install an artificial destratification and hypolimnetic oxygenation system using a combination of air injection and axial-flow water pumps should maintain aerobic conditions throughout the water column in the main body of Canyon Lake all year. This system creating a well-mixed condition and aerobic conditions in Canyon Lake should achieve expected improvements in water quality including reduced iron, manganese, ammonia, hydrogen sulfide, and phosphorus, with probable reductions in algal densities. This hybrid destratification system includes two axial-flow water pumps (3-HP each) and 400-SCFM of air injection from two air-line diffusers.</p> <p>Canyon Lake is a monomictic, eutrophic lake that typically stratifies from about late-February/early-March through late-November/early-December each year. The water column is divided into three depth zones, with the deep-water hypolimnion starting at about the 20 to 25 foot depths by midsummer, with oxygen depletions at or near zero at 16 to 18 feet. The hypolimnion becomes anaerobic and devoid of dissolved oxygen by early summer each year. This anaerobiosis results in releases of dissolved iron, manganese, ammonia, hydrogen sulfide, phosphorus (P) and other substances that degrade potable water quality. Phosphorus release from sediments under anaerobic conditions may increase eutrophication through internal P loading.</p>			
Annual Water Yield (AF):		Total Project Cost: \$ 874,000 (projected from 2004 est.) year of estimate: <u>2008</u>	

	Fixed O&M: \$___/yr Variable O&M: \$___/yr
Funds Requested: \$ 562,500	Cost Matching Funds: \$ 187,500
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Lake Elsinore and Canyon Lake Nutrient Source Assessment	Consultant: Tetra Tech	Date: 2002
Title: San Jacinto Nutrient Management Plan	Consultant: Tetra Tech	Date: 2003
Title: Lake Elsinore and Canyon Lake Nutrient TMDL Report	Consultant: Santa Ana Regional Water Quality Control Board	Date: 2004
Title: Restoration of Canyon Lake and Benefits to Lake Elsinore Downstream	Consultant: Dr. Alex J. Horne	Date: 2004

Has CEQA been completed? ___Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input checked="" type="checkbox"/> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Lake Elsinore & Canyon Lake Nutrient TMDL Task Force		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input checked="" type="checkbox"/> Non-point source pollution reduction, management and monitoring.	Project will install an aeration system to improve in-lake water quality.
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input checked="" type="checkbox"/> Watershed protection and management.	Installation of an in-lake aeration system will improve in-lake water quality and thereby provide for improvements in aquatic habitat.
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Western Municipal Water District			
Contact Name	First: Jack	Last: Safely	
Mailing Address- P.O. Box 5286, Riverside, CA 92517-5286	Street Address: 450 E Alessandro Boulevard		
City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: Arlington Desalter Expansion to 10 MGD			
Project Location: 611 Sterling Ave. Riverside, CA 92503			
Watershed/Sub-watershed: Middle Santa Ana River/Arlington			
Groundwater Basin: Arlington Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The project will expand the Arlington Desalter by 3.6 MGD to 10 MGD in order to provide additional potable water supply. Brine from the desalinization process will be disposed of in the SARI line. Phase 1 will include facilities for treatment. Phase 2 will include new wells to bring plant capacity up to 10 MGD.</p> <p>The project will include a component to construct wells in the eastern portion of the Arlington Basin and pipelines to convey water to the Arlington Desalter to provide additional Desalter water. An added benefit is the reduction of TDS and nitrates in groundwater flow from the Arlington Basin into the Santa Ana River. High groundwater levels in the eastern portion of the Arlington groundwater basin containing high TDS, nitrate and perchlorate concentrations flow northward and discharge to Hole Lake (also known as Anza Drain) and ultimately to the Santa Ana River upstream of Prado Dam (~1,000 AFY). The project will use fixed bed biological denitrification and brine concentration for removal TDS and nitrates to increase groundwater recovery for delivery.</p> <p>Pilot studies have been completed for nitrate removal and are in progress for brine concentration. Preliminary design on bio de-nitrification is in progress. Initial planning work for this project is underway and includes groundwater modeling to locate wells and for evaluating the impacts from additional pumping in the Arlington GW basin. Groundwater</p>			

modeling to evaluate the feasibility of additional pumping and recharge is in progress under a Proposition 50 Grant. In addition, WMWD has submitted a Local Groundwater Assistance Grant application to DWR for monitoring of the Arlington GW basin to assess groundwater pumping and treatment.

Annual Water Yield (AF): 4,000 AFY	Total Project Cost: \$ 18 M year of estimate: <u>2007</u> Fixed O&M: \$1.1M /yr Variable O&M: \$1.3/yr
Funds Requested: \$	Cost Matching Funds: 100% available
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project: Potentially \$ 1M from Federal Water Resources Development Act (08/09) Potential MWD Local Resources Program Funding Potential funding for new technologies related to brackish groundwater desalinization	
Project phases completed: <input type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Arlington Basin Groundwater Flow Model	Consultant: Wildermuth Environmental	Date: April 2008
Title: Arlington Desalter Evaluation Final Report	Consultant: Carollo Engineers	Date: Feb 2007
Title: Fix Bed Biological Nitrate Removal Study Arlington Desalter	Consultant: Carollo Engineers	Date: 2007
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption: By Dec 2008	
CEQA-document type (Cat Ex; ND/MND, EIR): MND for brine concentration. Cat Ex for nitrate removal. CEQA from original Arlington Desalter development can be used to develop CEQA for expansion		
Permits Required and Status: DPH approval, possible conditional use permit from City of Riverside for brine concentration facilities		
Land Acquisition Status, if required: Land needed for new well locations and lime softening facilities for brine concentration		
This project is an: <input type="checkbox"/> Independent operable project <input checked="" type="checkbox"/> Operable segment of larger project If larger project, # of expected phases <u>2</u>		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Direct beneficiaries of the new water supply include Western MWD Retail. Other users may include City of Riverside, Norco, Corona, JCSD, and potentially Lee Lake Water District and EVMWD. Additionally, dischargers to the WRCWRA Plant benefit from the reduced nitrate concentrations in the Arlington Basin.		
Main Challenges to Project Implementation: Basin management, providing sufficient recharge to maintain yield		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<u>X</u> Drinking water treatment and distribution.	Expansion of Arlington Desalter to 10 MGD
___ Resolution of significant water-related conflicts.	
<u>X</u> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Improved use of Arlington GW Basin poor quality water through desalting
<u>X</u> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Expansion of Arlington Desalter to 10 MGD
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<u>X</u> Watershed protection and management.	Reduce perchlorate contamination to Anza Drain/Hole Lake and to Santa Ana River
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Western Municipal Water District			
Contact Name	First: Jack	Last: Safely	
Mailing Address- P.O. Box 5286 Riverside, CA 92517-5286	Street Address: 450 E Alessandro Boulevard		
City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: Chino Basin Dry Year Yield Study			
Project Location: San Bernardino County			
Watershed/Sub-watershed: Middle Santa Ana River/Chino (Split)			
Groundwater Basin: Chino Basin			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
Project Description (incl. goal of project): The project will develop 25,000 AF of storage in the Chino Basin and approximately 8,000 AFY of groundwater pumping yield for dry year use in the Chino Basin through extraction/ASR wells as far north as Fontana or Ontario. It is anticipated that during normal or wet years, only 2,000 AF will be drawn in order to keep the system from being idle. Facilities will connect this supply with the Riverside-Corona Feeder at the Central Reach and allow for groundwater recharge using Chino II Desalter water as well as storm water. This project will allow water to be stored in the Chino Basin when surplus supplies are available and extracted when needed. Nitrate removal is likely to be required.			
Annual Water Yield (AF): 8,000 dry year yield. Approx. 2,000 annual yield to utilize system	Total Project Cost: ~\$ 30 M year of estimate: <u>2007</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: TBD through negotiations with MWD	Cost Matching Funds: TBD		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Describe any other funding opportunities under consideration/available to this project: MWD	
Project phases completed: Planning in process, to be completed in 2009.	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Dry Year Yield Feasibility Study	Consultant: Wildermuth/Black and Veatch	Date: To be complete end of 2008
Title: Various Chino Basin Studies	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (CEQA for original Dry Year Yield Program. Updated CEQA will be required)	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Future Supplemental EIR		
Permits Required and Status: TBD		
Land Acquisition Status, if required: TBD		
This project is an: <input type="checkbox"/> Independent operable project <input checked="" type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project: Riverside-Corona Feeder	Start Date:	Complete Date:
Project Partners identified, if any: Partners include Chino Basin Watermaster, IEUA. Norco, Corona, EVMWD, LLWD, JCSD may all benefit from this project		
Main Challenges to Project Implementation: Institutional arrangements		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	Provides water distribution between Chino Basin and WMWD area
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	This project provides groundwater storage of excess waters to be recovered during dry years.
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
<input checked="" type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	Potentially link to Chino Basin Recharge Projects.
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency or Organization: Western Municipal Water District			
Contact Name	First: Jack	Last: Safely	
Mailing Address- P.O. Box 5286 Riverside, CA 92517-5286	Street Address: 450 E Alessandro Boulevard		
City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: Lake Mathews Water Treatment Plant			
Project Location: Intersection of El Sobrante and La Sierra near Lake Mathews			
Watershed/Sub-watershed: Middle Santa Ana River Watershed			
Groundwater Basin: NA			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The Lake Mathews Water Treatment Plant (LMWTP) project includes facilities that will produce water of similar quality to the water produced by the Mills Water Treatment Plant (WTP), and will serve as a backup for the Mills Filtration Plant and to meet future demands.</p> <p>The LMWTP will be located on a 9.85-acre site owned by Western Municipal Water District (District). The plant site is located at La Sierra Avenue and El Sobrante Road. The treatment process includes in-line coagulation, microfiltration (MF), ultraviolet (UV) disinfection, reverse osmosis (RO), chlorine disinfection, and disinfection by-product (DBP) control with chloramines. The project will provide up to 40 MGD (or an additional 44,000 AFY) of potable water to the Mills Gravity Pipeline.</p> <p>Conceptual design for this project has been completed and property for the WFP and easements for pipelines for this project have been acquired in anticipation of this future project (2020+).</p>			
Annual Water Yield (AF): 44,000	Total Project Cost: \$ 125.7 M	year of estimate: 2007	
	Fixed O&M: \$___/yr		
	Variable O&M: \$___/yr		
Funds Requested: None	Cost Matching Funds:		

Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project: None	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date: NA

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Lake Mathews Water Treatment Plant Cost Evaluation	Consultant: Carollo	Date: March 2007
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): MND		
Permits Required and Status: TBD		
Land Acquisition Status, if required: Properties and easements have been acquired for this project.		
This project is an: <u>X</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project: _____	Start Date: _____	Complete Date: _____
Project Partners identified, if any: WMWD member agencies to benefit. No project partners		
Main Challenges to Project Implementation: Funding, supply availability		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	This project provides reverse osmosis treatment of higher TDS Colorado River water in order to meet wastewater discharge requirements in the area.
___ Resolution of significant water-related conflicts.	
___ Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	This project provides reverse osmosis treatment of higher TDS Colorado River water in order to meet wastewater discharge requirements in the area.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency or Organization: Western Municipal Water District			
Contact Name		First: Jack	Last: Safely
Mailing Address- P.O. Box 5286		Street Address: 450 E Alessandro Boulevard	
City: Riverside	State: CA		Zip: 92517
Email: jsafely@wmwd.com		Phone: (951) 789-5041	Fax: (951) 780-3837
Project Information			
Project Name: March Reclamation Facility Phase 2 Expansion			
Project Location: Riverside County near I-215 and Alessandro			
Watershed/Sub-watershed: Middle Santa Ana River/Perris Valley			
Groundwater Basin: San Jacinto			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project): The project will expand the March Reclamation Facility treatment capacity from 1 MGD to 3 MGD and add tertiary treatment capabilities. This will allow the plant to treat increasing wastewater flows from new development and meet using recycled water irrigation water needs that are currently being met with non-potable water (Colorado River and groundwater). The project offers the benefits of providing additional water supply and reducing salinity in the local groundwater basin by directly replacing high-salinity imported water with higher quality recycled water. Additionally, the project reduces energy use and greenhouse gas production by reducing pumping costs associated with importing water. Recycled water from the project may be used for groundwater recharge and provide recycled water for the City of Riverside non-potable system.			
Annual Water Yield (AF): Ultimate yield of 3,024. Approx. 1,000 initially		Total Project Cost: \$ \$47,000,000 year of estimate: 2008 Fixed O&M: \$1.384 M___/yr Variable O&M: \$___195,700/yr	
Funds Requested: \$		Cost Matching Funds: >75%	
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Describe any other funding opportunities under consideration/available to this project:
MWD LRP

Project phases completed: X Planning
100% Design

Construction contract award date: June 08

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Preliminary Design Report	Consultant: Krieger & Stewart	Date: 12/9/05
Title: 90% Preliminary Design Drawings	Consultant: Krieger & Stewart	Date: 1/4/08
Title: Initial Study and Mitigated Negative Declaration	Consultant: Krieger & Stewart	Date: February 2007
Title:	Consultant:	Date:

Has CEQA been completed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption: February 2007	
CEQA-document type (Cat Ex; ND/MND, EIR): MND		
Permits Required and Status: Updated Regional Board Waste Discharge Requirement/NPDES is in process		
Land Acquisition Status, if required: None required		
This project is an: <input type="checkbox"/> Independent operable project <input checked="" type="checkbox"/> Operable segment of larger project If larger project, # of expected phases <u>3</u>		
Larger project: March Rec. Facility Ultimate Expansion to 5MGD	Start Date: June 2008	Complete Date: February 2010
Project Partners identified, if any: City of Riverside for potential non-potable supply through non-potable system		
Main Challenges to Project Implementation: Funding		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Recycled water may be used for groundwater recharge as well as to offset imported water for irrigation.
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Tertiary treatment and distribution of recycled water.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Contact Name	First: Jack	Last: Safely	
Mailing Address – P.O. Box 5286 Riverside, CA 92517-5286	Street Address: 450 E Alessandro Boulevard		
City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: Murrieta Division Recharge Study			
Project Location: Temecula, Riverside County			
Watershed/Sub-watershed: Santa Margarita/Murrieta			
Groundwater Basin: Murrieta Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The project will develop artificial recharge as a groundwater management and replenishment tool for the Murrieta Basin and will consist of the following components:</p> <ul style="list-style-type: none"> • Development plan for capturing storm water with RFCWCD • Identification of sites for groundwater recharge using groundwater model • Preparation of CEQA documentation • Preliminary site investigation using boreholes and single ring infiltrometers • Conduct up to 6-month pilot-scale artificial recharge testing using a pilot basin and monitoring wells • Refine groundwater flow model based on testing data and develop operational scenarios for full-scale artificial recharge facility at a selected site • Develop preliminary design report for facilities based on pilot test and model results • Prepare CEQA documentation for full-scale facility • Final design of facility • Construction <p>The project will utilize captured storm water to recharge the Murrieta groundwater basin. This will provide multiple benefits of serving flood control flow and pollution mitigation, as well as providing an additional source of water supply. Potential sites for recharge in the Murrieta Basin will be identified. While the Murrieta Creek could potentially serve as a recharge area, portions of the Creek are US Army Corps of Engineers and Riverside County Flood Control and Water Conservation District flood control and restoration project areas, and thus may not be suitable for recharge.</p>			
Annual Water Yield (AF):		Total Project Cost: Not available (\$100,000 for modeling)	

Basin yield 2,000 AFY	year of estimate: _____ Fixed O&M: \$___/yr Variable O&M: \$___/yr
Funds Requested: \$	Cost Matching Funds: NA
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project: Possibility for funding through AB303	
Project phases completed: <input type="checkbox"/> Planning <input type="checkbox"/> Design Planning underway	Construction contract award date: NA

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Evaluation of Operational Safe Yield for a Portion of the Northern Temecula Valley Ground Water Basin	Consultant: Geoscience	Date: 4-5-07
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): MND		
Permits Required and Status: NA		
Land Acquisition Status, if required: NA		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Army Corps of Engineers, RFCWCD, possibly RCWD		
Main Challenges to Project Implementation: Environmental permitting for recharge areas		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Groundwater recharge from winter flows
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
<input checked="" type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	Possible integration of flood management with groundwater recharge and environmental restoration and recreation
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
<input checked="" type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	Use of excess stormwater for groundwater recharge
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
<input checked="" type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	Possible environmental restoration and recreation could be developed through these projects.



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City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: Perris North Basin Groundwater and Well Siting Study			
Project Location: Riverside County			
Watershed/Sub-watershed: San Jacinto Valley/Perris Valley			
Groundwater Basin: San Jacinto Basin (Perris North Management Zone)			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
Project Description (incl. goal of project): The Perris North Groundwater Basin within the March Air Reserve Base area contains high TDS, nitrate, and VOC levels as well as high groundwater (15' depth). The project is a feasibility study involving water quality, water level sampling, and groundwater modeling to study groundwater characteristics and develop management plans for any potential beneficial uses of Perris North Groundwater Basin water removed for groundwater level reduction. A management plan would include the siting of new wells for extraction for groundwater level management.			
Annual Water Yield (AF): 2000 (after construction)	Total Project Cost: \$ 250,000 for study. Year of estimate: 2007 Fixed O&M: \$___/yr – n/a Variable O&M: \$___/yr – n/a		
Funds Requested: \$	Cost Matching Funds: 100% (50/50 WMWD and EMWD)		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Describe any other funding opportunities under consideration/available to this project: WMWD and EMWD has budgeted \$250,000 in 2007 – 2008 for commencing this study. AB303 funding may also be available.

Project phases completed: Planning
 Design

Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Feasibility Study of Groundwater Production of Perris North Basin	Consultant: MWH	Date: April 08
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input type="checkbox"/> No – Not applicable	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status: NA		
Land Acquisition Status, if required: NA		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: WMWD and EMWD are project partners. This project also benefits the March ARB for water level management.		
Main Challenges to Project Implementation: Water quality and brine disposal, if required.		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<u>X</u> Drinking water treatment and distribution.	Treatment and distribution of Perris Basin water
___ Resolution of significant water-related conflicts.	
<u>X</u> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	This project could provide additional groundwater supply to the WMWD Retail service area.
<u>X</u> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	This project is likely to require treatment for TDS, nitrate, and VOC's.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: Riverside Corona Feeder – All Reaches			
Project Location: From Bunker Hill Groundwater Basin in San Bernardino to Corona			
Watershed/Sub-watershed: Middle Santa Ana River			
Groundwater Basin: Bunker Hill, others			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The project consists of infrastructure for the entire Riverside-Corona Feeder including the North, Central, and Southern Reaches. The Project will recharge and extract up to 40,000 acre-feet (AF) of groundwater per year from the San Bernardino Basin Area (SBBA) and convey the water through a new pipeline to purveyors in WMWD’s service area. The project could involve approximately 20 wells in the SBBA pressure zone, a new pump station, and about 30 miles of pipeline generally paralleling State Route 91 from just north of Interstate 10 in San Bernardino to just south of Interstate 15 in Corona and will be constructed in multiple phases.</p> <p>The goal of this project is to reduce the WMWD’s dependency on imported water through a process to bank water in the upper areas of the Santa Ana River basin as well as to facilitate conveyance of desalted groundwater from the Arlington and Chino Basins to WMWD’s service area. The banked excess State Water Project (SWP) water, purchased at a lower cost during hydrological wet years, would be transferred and percolated in the upper areas of the Santa Ana River basin and then retrieved in the future for use during periods of drought.</p> <p>The Riverside-Corona Feeder project is comprised of four reaches. The Central reach, to be built first, connects Jurupa CSD to the southeastern end of the Arlington Basin at Mockingbird PS. The Southern 1 Reach connects the Arlington Desalter to the Central Reach, and will be constructed second. The Southern 2 Reach (third section to be constructed) connects the City of Corona to the Arlington Desalter. The North Reach will be constructed last and will connect the Bunker Hill Basin to Jurupa CSD.</p>			
Annual Water Yield (AF):	Total Project Cost: \$250 M year of estimate: 2005		

68,900 Bunker Hill: 40,000 Chino Dry Year Yield : 25,000 Arlington Desalter: 3,900 (@ 3.5 MGD additional capacity	Fixed O&M: \$___/yr Variable O&M: \$___/yr
Funds Requested: \$	Cost Matching Funds: \$
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project: Federal funding authorized for \$50 M, not yet appropriated CA IRWMP Implementation Grant of \$5m from SWRCB for initial phase of construction	
Project phases completed: <input checked="" type="checkbox"/> Planning <input checked="" type="checkbox"/> Design (for initial phase of construction)	Construction contract award date: August 2008 for initial phase of construction

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Program EIR	Consultant: Webb and Associates	Date: May 2005
Title: Central Reach PDR	Consultant: Black and Veatch	Date:
Title: Prop 50 Grant application	Consultant: Kennedy/Jenks Consultants	Date: July 2006
Title:	Consultant:	Date:

Has CEQA been completed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, Expected Date of Adoption: May 2005? If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Program EIR		
Permits Required and Status: US Army Corps of Engineers Section 404, US Fish and Wildlife, Federal Aviation Administration, CA Fish and Game, OSHA, Encroachment permits, Permits for rail crossings.		
Land Acquisition Status, if required:		
This project is an: <input type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases <u>4</u>		
Larger project: RC Feeder	Start Date:	Complete Date:
Project Partners identified, if any: City of Riverside, City of Corona, EVMWD, San Bernardino MWD, Lee Lake Water District, Jurupa CSD, WMWD Retail, Rubidoux CSD		
Main Challenges to Project Implementation: Funding and crossing of Santa Ana River		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	Pumping and treatment of water from Bunker Hill, Chino, and Arlington GW Basin
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Provides ability to deliver recharged water from Bunker Hill and Chino Basins at present, and Arlington GW Basin in future.
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Desalting of Chino and Arlington Basin GW; treatment of Bunker Hill GW.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



WMWD Integrated Regional Water Management Plan Project Information Form
 Please submit no later than 2/27/08 via e-mail to: bobtran@kennedyjenks.com. Questions,
 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Western Municipal Water District			
Contact Name	First: Jack	Last: Safely	
Mailing Address- P.O. Box 5286 Riverside, CA 92517-5286	Street Address: 450 E Alessandro Boulevard		
City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: Riverside Corona Feeder – North Reach			
Project Location:			
Watershed/Sub-watershed: Middle Santa Ana River/Riverside			
Groundwater Basin: Riverside/Arlington			
Project Type (check applicable) <input type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The Riverside-Corona Feeder will recharge and extract up to 40,000 acre-feet (AF) of groundwater per year from the San Bernardino Basin Area (SBBA) and convey the water through a new pipeline to purveyors in WMWD’s service area. The project could involve approximately 20 wells in the SBBA pressure zone, a new pump station, and about 30 miles of pipeline generally paralleling State Route 91 from just north of Interstate 10 in San Bernardino to just south of Interstate 15 in Corona and will be constructed in multiple phases.</p> <p>The goal of the Riverside-Corona Feeder is to reduce the WMWD’s dependency on imported water through a process to bank water in the upper areas of the Santa Ana River basin as well as to facilitate conveyance of desalted groundwater from the Arlington and Chino Basins to WMWD’s service area. The banked excess State Water Project (SWP) water, purchased at a lower cost during hydrological wet years, would be transferred and percolated in the upper areas of the Santa Ana River basin and then retrieved in the future for use during periods of drought.</p> <p>The North Reach of the Riverside-Corona Feeder will carry water from a connection to the San Bernardino Valley Municipal Water District Baseline Feeder to a point in the service areas of Rubidoux Community Services District (RCSD) and Jurupa Community Services District (JCSD). The North Reach, in addition to serving water to JCSD and RCSD will also receive water from the Chino Desalter through a connection with JCSD. Construction of the North</p>			

Reach will be contingent upon completion of basin management plan of Bunker Hill basin area and needs and participation of WMWD agencies. If constructed, the North Reach will be the last portion of the RC-Feeder to be built	
Annual Water Yield (AF): (less than full RC Feeder)	Total Project Cost: \$ 135,000,000 (including Central Reach) year of estimate: <u>2007</u> Fixed O&M: \$___/yr Variable O&M: \$___/yr
Funds Requested: \$	Cost Matching Funds: \$
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date: By Aug 2009

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Program EIR	Consultant: Webb and Associates	Date: May 2005
Title: Central Reach PDR	Consultant: Black and Veatch	Date: Aug 2007
Title: Prop 50 Grant application	Consultant: Kennedy/Jenks Consultants	Date: July 2006
Title:	Consultant:	Date:

Has CEQA been completed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Program EIR		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input type="checkbox"/> Independent operable project <input checked="" type="checkbox"/> Operable segment of larger project If larger project, # of expected phases <u>4</u>		
Larger project: RC Feeder	Start Date:	Complete Date:
Project Partners identified, if any: Jurupa CSD and Rubidoux CSD could benefit from the Northern Reach of RC Feeder		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	Pumping and treatment of water from Bunker Hill GW Basin
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Provides ability to deliver recharged water from Bunker Hill Basin, and connects Chino Desalter to RC Feeder.
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Treatment of Bunker Hill GW.
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Western Municipal Water District			
Contact Name	First: Jack	Last: Safely	
Mailing Address- P.O. Box 5286 Riverside, CA 92517-5286	Street Address: 450 E Alessandro Boulevard		
City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: Riverside Corona Feeder – Central Reach			
Project Location: From Jurupa to Mockingbird P.S.			
Watershed/Sub-watershed: Middle Santa Ana Rivers Waterhsed			
Groundwater Basin:			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project):			
<p>The Riverside-Corona (RC) Feeder will recharge and extract up to 40,000 acre-feet (AF) of groundwater per year from the San Bernardino Basin Area (SBBA) and convey the water through a new pipeline to purveyors in WMWD’s service area. The project could involve approximately 20 wells in the SBBA pressure zone, a new pump station, and about 30 miles of pipeline generally paralleling State Route 91 from just north of Interstate 10 in San Bernardino to just south of Interstate 15 in Corona and will be constructed in multiple phases.</p> <p>The goal of the Riverside-Corona Feeder is to reduce the WMWD’s dependency on imported water through a process to bank water in the upper areas of the Santa Ana River basin as well as to facilitate conveyance of desalted groundwater from the Arlington and Chino Basins to WMWD’s service area. The banked excess State Water Project (SWP) water, purchased at a lower cost during hydrological wet years, would be transferred and percolated in the upper areas of the Santa Ana River basin and then retrieved in the future for use during periods of drought.</p> <p>The Central Reach will convey water from the end of the North Reach to the southeastern edge of the Arlington Basin and will be the first portion of the RC Feeder to be built. The Central Reach will deliver water to the City of Riverside and the Western retail area. The Central Reach will connect supplies from the Chino Basin Dry Year Yield program (a project to develop 5,000</p>			

<p>AF of storage north of Jurupa and approximately 8,000 acree-feet per year [AFY] of groundwater pumping yield in the Chino Basin) and the Arlington Desalter (proposed for expansion by by 3.6 million gallons per day [MGD] to 10 MGD). Arlington Desalter water will be wheeled through the City of Riverside water distribution system to this segment of the Riverside-Corona Feeder for delivery. The connection to Mockingbird Pump Station allows Chino and Arlington Basin waters to be delivered to the Mills Gravity Line and thereby to other WMWD agencies.</p>	
<p>Annual Water Yield (AF): confirm below: Chino Dry Year Yield : 8,300 (total storage is 25,000) Arlington Desalter: 4,000 (@ 3.5 MGD additional capacity</p>	<p>Total Project Cost: \$ 70M year of estimate: _____ Fixed O&M: \$___/yr Variable O&M: \$___/yr</p>
<p>Funds Requested: \$</p>	<p>Cost Matching Funds: \$ 4.9M from SAWPA IRWMP</p>
<p>Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Describe any other funding opportunities under consideration/available to this project: 25% expected Federal funding (USBR/Army Corps) CA IRWMP Implementation Grant of \$5m from SWRCB for initial phase of construction</p>	
<p>Project phases completed: <input checked="" type="checkbox"/> Planning <input checked="" type="checkbox"/> Design (of portion of Central Reach is underway)</p>	<p>Construction contract award date: August 2008 for Central Reach (2009 for other phases)</p>

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Program EIR	Consultant: Webb and Associates	Date: May 2005
Title: Central Reach PDR	Consultant: Black and Veatch	Date: ?
Title: Prop 50 Grant application	Consultant: Kennedy/Jenks Consultants	Date: July 2006
Title:	Consultant:	Date:

Has CEQA been completed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, Expected Date of Adoption: May 2005 If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Program EIR		
Permits Required and Status: Right of way permits		
Land Acquisition Status, if required: Needed for pump stations and disinfection facilities		
This project is an: <input type="checkbox"/> Independent operable project <input checked="" type="checkbox"/> Operable segment of larger project If larger project, # of expected phases <u>4</u>		
Larger project: RC Feeder	Start Date:	Complete Date:
Project Partners identified, if any: WMWD Retail, City of Riverside, City of Corona, EVMWD, Lee Lake WD, Jurupa CSD		
Main Challenges to Project Implementation: Funding and crossing of Santa Ana River		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	Pumping and treatment of water from Chino and Arlington GW Basin
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Provides ability to deliver recharged water from Chino Basin at present, and Arlington GW Basin in future.
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Desalting of Chino and Arlington Basin GW
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Western Municipal Water District			
Contact Name	First: Jack	Last: Safely	
Mailing Address- P.O. Box 5286 Riverside, CA 92517-5286	Street Address: 450 E Alessandro Boulevard		
City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: Riverside Corona Feeder – Southern1 Reach			
Project Location: From Arlington Desalter northeast to the Central Reach terminus			
Watershed/Sub-watershed: Middle Santa Ana River/Arlington			
Groundwater Basin: Arlington			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The Riverside-Corona Feeder will recharge and extract up to 40,000 acre-feet (AF) of groundwater per year from the San Bernardino Basin Area (SBBA) and convey the water through a new pipeline to purveyors in WMWD’s service area. The project could involve approximately 20 wells in the SBBA pressure zone, a new pump station, and about 30 miles of pipeline generally paralleling State Route 91 from just north of Interstate 10 in San Bernardino to just south of Interstate 15 in Corona and will be constructed in multiple phases.</p> <p>The goal of the Riverside-Corona Feeder is to reduce the WMWD’s dependency on imported water through a process to bank water in the upper areas of the Santa Ana River basin as well as to facilitate conveyance of desalted groundwater from the Arlington and Chino Basins to WMWD’s service area. The banked excess State Water Project (SWP) water, purchased at a lower cost during hydrological wet years, would be transferred and percolated in the upper areas of the Santa Ana River basin and then retrieved in the future for use during periods of drought.</p> <p>The Riverside-Corona Feeder Southern 1 Reach constructs infrastructure for the Riverside-Corona Feeder between the Arlington Desalter and the Central Reach and will be built after completion of the Central Reach. The main function of the project is to deliver water from the Central Reach to Arlington Desalter to be able to connect to the Southern 2 Reach which will allow Bunker Hill water to be delivered to Corona upon completion of the entire RC Feeder.</p>			

<p>Until the time that the entire RC Feeder is complete, this project also allows for direct connection to the Arlington Desalter and eliminates the need to wheel water through City of Riverside to deliver Arlington Water to the Central Reach which will be constructed before this segment. This allows water to be delivered to Mockingbird P.S. and the Mills Gravity Line.</p>	
<p>Annual Water Yield (AF): (confirm) Chino Dry Year Yield : 25,000 Arlington Desalter: 3,900 (@ 3.5 MGD additional capacity</p>	<p>Total Project Cost: \$ _____ year of estimate: _____ Fixed O&M: \$___/yr Variable O&M: \$___/yr</p>
<p>Funds Requested: \$ _____</p>	<p>Cost Matching Funds: \$ _____</p>
<p>Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Describe any other funding opportunities under consideration/available to this project: Federal funding authorized for \$50 M, not yet appropriated CA IRWMP Implementation Grant of \$5m from SWRCB for initial phase of construction</p>	
<p>Project phases completed: <input checked="" type="checkbox"/> Planning <input checked="" type="checkbox"/> Design (for initial phase of construction)</p>	<p>Construction contract award date: August 2008 for initial phase of construction. 2009 for other phases.</p>

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Program EIR	Consultant: Webb and Associates	Date: May 2005
Title: Prop 50 Grant application	Consultant: Kennedy/Jenks Consultants	Date: July 2006
Title:	Consultant:	Date:

Has CEQA been completed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, Expected Date of Adoption: May 2005? If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Program EIR		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input type="checkbox"/> Independent operable project <input checked="" type="checkbox"/> Operable segment of larger project If larger project, # of expected phases <u>4</u>		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: Partners include WMWD Retail, City of Riverside, City of Norco. Project beneficiaries include retailers connected to the Mills Gravity Line.		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	Pumping and treatment of water from Chino, and Arlington GW Basins (assuming Central Reach is constructed first)
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Provides ability to deliver recharged water from Chino Basins at present, and Arlington GW Basin in future (assuming Central Reach is constructed first).
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Desalting of Chino and Arlington Basin GW (Chino Basin can be included assuming that Central Reach is constructed first)
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Western Municipal Water District			
Contact Name	First: Jack	Last: Safely	
Mailing Address- P.O. Box 5286 Riverside, CA 92517-5286	Street Address: 450 E Alessandro Boulevard		
City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: Riverside Corona Feeder – Southern2 Reach			
Project Location: From Arlington Desalter south to Corona			
Watershed/Sub-watershed: Middle Santa Ana River/Arlington and Temescal			
Groundwater Basin: Arlington-Temescal			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): The Riverside-Corona (RC) Feeder will recharge and extract up to 40,000 acre-feet (AF) of groundwater per year from the San Bernardino Basin Area (SBBA) and convey the water through a new pipeline to purveyors in WMWD’s service area. The project could involve approximately 20 wells in the SBBA pressure zone, a new pump station, and about 30 miles of pipeline generally paralleling State Route 91 from just north of Interstate 10 in San Bernardino to just south of Interstate 15 in Corona and will be constructed in multiple phases.</p> <p>The goal of the Riverside-Corona Feeder is to reduce the WMWD’s dependency on imported water through a process to bank water in the upper areas of the Santa Ana River basin as well as to facilitate conveyance of desalted groundwater from the Arlington and Chino Basins to WMWD’s service area. The banked excess State Water Project (SWP) water, purchased at a lower cost during hydrological wet years, would be transferred and percolated in the upper areas of the Santa Ana River basin and then retrieved in the future for use during periods of drought.</p> <p>The project constructs infrastructure for the Riverside-Corona Feeder between the Arlington Desalter West to Corona and will be the last portion of the RC Feeder to be built. This project is the southern-most segment of the RC Feeder project which will ultimately allow delivery of water from Bunker Hill, Chino, and Arlington Basins to Corona and EVMWD upon completion of all of the segments. As an independent segment, the Southern2 Reach allows deliver of water</p>			

from the Arlington Desalter to Corona and to EVMWD but also, in an emergency, allows reverse flow from EVMWD and Corona to WMWD Retail by pumping.	
Annual Water Yield (AF): Arlington Desalter: 3,900 (@ 3.5 MGD additional capacity	Total Project Cost: \$ _____ year of estimate: _____ Fixed O&M: \$___/yr Variable O&M: \$___/yr
Funds Requested: \$ _____	Cost Matching Funds: \$ _____
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project: Federal funding authorized for \$50 M, not yet appropriated CA IRWMP Implementation Grant of \$5M from SWRCB for initial phase of construction	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date: August 2008 for initial phase of construction. 2009 for other phases

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Program EIR	Consultant: Webb and Associates	Date: May 2005
Title: Prop 50 Grant application	Consultant: Kennedy/Jenks Consultants	Date: July 2006
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, Expected Date of Adoption: May2005? If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Program EIR		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <input type="checkbox"/> Independent operable project <input checked="" type="checkbox"/> Operable segment of larger project If larger project, # of expected phases <u>4</u>		
Larger project: RC Feeder	Start Date:	Complete Date:
Project Partners identified, if any: WMWD Retail and Murrieta, City of Corona, EVMWD		
Main Challenges to Project Implementation: Funding		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<u>X</u> Drinking water treatment and distribution.	Pumping and treatment of water from Arlington GW Basin and Chino Basin upon completion of Central and Southern 1 Reaches prior to Southern 2 Reach
___ Resolution of significant water-related conflicts.	
<u>X</u> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Provides ability to deliver recharged water from Chino Basins at present, and Arlington GW Basin in future upon completion of Central and Southern 1 Reaches prior to Southern 2 Reach
<u>X</u> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Desalting of Chino and Arlington Basin GW upon completion of Central and Southern 1 Reaches prior to Southern 2 Reach
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Western Municipal Water District			
Contact Name	First: Jack	Last: Safely	
Mailing Address- P.O. Box 5286, Riverside, CA 92517-5286	Street Address: 450 E Alessandro Boulevard		
City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: Numeric Model for Riverside Groundwater Basins			
Project Location: Riverside Groundwater Basin Area			
Watershed/Sub-watershed: Middle Santa Ana River/ Riverside			
Groundwater Basin: Riverside			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
<p>Project Description (incl. goal of project): A numerical model for the Riverside Basin will be developed in order to facilitate groundwater management and to link to the existing Arlington GW Basin model to facilitate understanding of the basin yields and interaction between the two groundwater basins. The model will aid in running scenarios including, but not limited to, new production wells, new desalter production wells, conjunctive use, and optimum basin management. This project is also linked to the City of Riverside's Riverside North Basin Recharge project (R-6).</p> <p>Progress on the project includes data gathering and characterization using well logs and cross sections of the basins.</p>			
Annual Water Yield (AF): TBD	Total Project Cost: \$800,000	year of estimate: <u>2007</u>	
	Fixed O&M: \$___/yr	Variable O&M: \$___/yr	
Funds Requested: \$250,000 through AB303	Cost Matching Funds: Up to 100%		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? NA			
Describe any other funding opportunities under consideration/available to this project: Applied for AB303 funding in 2007.			

Project phases completed: <u> </u> Planning <u> </u> Design	Construction contract award date: NA
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Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: City of Riverside Groundwater Monitoring Plan Phase II	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <u>X</u> Not applicable	If no, Expected Date of Adoption: If yes, Date of Adoption:
CEQA-document type (Cat Ex; ND/MND, EIR): NA	
Permits Required and Status: None	
Land Acquisition Status, if required: None	
This project is an: <input checked="" type="checkbox"/> <u>X</u> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____	
Larger project: _____	Start Date: _____ Complete Date: _____
Project Partners identified, if any: Partners include City of Riverside and Western MWD. Jurupa CSD and Rubidoux CSD would also benefit from the preparation of this model.	
Main Challenges to Project Implementation:	

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	Provides water to Rubidoux CSD disadvantaged communities which rely 100% on groundwater
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Facilitates understanding of groundwater pumping for water quality and water level, groundwater recharge, and interaction with and management of Arlington GW Basin
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
<input checked="" type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	Relation to Riverside North Recharge Project which is investigation recharge using storm water
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
<input checked="" type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	Relation to Riverside North Recharge Project which is investigation recharge using storm water
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



WMWD Integrated Regional Water Management Plan Project Information Form
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 please contact Bob at 949-261-1577 ext. 168

Agency Information			
Agency or Organization: Western Municipal Water District			
Contact Name	First: Jack	Last: Safely	
Mailing Address- P.O. Box 5286 Riverside, CA 92517-5286	Street Address: 450 E Alessandro Boulevard		
City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: WMWD Water Use Efficiency Master Plan Implementation			
Project Location: WMWD Service Area			
Watershed/Sub-watershed: Middle Santa Ana River, Santa Margarita, San Jacinto			
Groundwater Basin: Many			
Project Type (check applicable) <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
Project Description (incl. goal of project and a map showing project area/location): The District has commissioned the preparation of a Water Use Efficiency Master Plan (WUEMP). The purpose of the WUEMP is to prepare a comprehensive long term conservation plan for the District's Service Area by adopting objectives, policies and programs designed to promote innovative emerging technologies and practices as well as proven and cost effective conservation measures. Implementation of the WUEMP includes:			
<ul style="list-style-type: none"> *Use revision of the CUWCC MOU allowing for a more flexible BMP program design *Incorporate new and emerging technologies *Provide support for residential weather-based irrigation controllers, audits for public sector customers, and all cost effective BMPs *Design a marketing strategy *Continually improve BMP and other conservation program implementation throughout WMWD service area *Device maintenance and replacement *Utilize all appropriate conservation incentive programs supported by MWDSC. *Monitor Emerging Technologies, particularly in the landscape sector *When 20% gpcd reduction requirements are effective, review and update the WUEMP to reflect new requirements *Update successive UWMP's with demand reductions attained through conservation 			

Annual Water Yield (AF): TBD		Total Project Cost: TBD	year of estimate: _____
		Fixed O&M: \$___/yr	
		Variable O&M: \$___/yr	
Funds Requested: \$		Cost Matching Funds: TBD	
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: \$75,000 from Bureau of Reclamation. Potential candidate for DWR Water Use efficiency and MWD Water conservation funds			
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design		Construction contract award date: NA	

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: WMWD Water use Efficiency Master Plan	Consultant: Kennedy/Jenks Consultants	Date: IN PROCESS (Due Summer 08)
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not applicable	If no, Expected Date of Adoption: If yes, Date of Adoption:
CEQA-document type (Cat Ex; ND/MND, EIR):	
Permits Required and Status: none	
Land Acquisition Status, if required: None	
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____	
Larger project:	Start Date: Complete Date:
Project Partners identified, if any: All of the WMWD Member Agencies are expected to benefit from this project.	
Main Challenges to Project Implementation: End user coordination, erosion of BMP effectiveness over time	

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
<input checked="" type="checkbox"/> Water conservation and water use efficiency.	Implementation of Water Use Efficiency BMPs
<input type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
<input type="checkbox"/> Drinking water treatment and distribution.	
<input type="checkbox"/> Resolution of significant water-related conflicts.	
<input type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
<input type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	
<input type="checkbox"/> Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input type="checkbox"/> Non-point source pollution reduction, management and monitoring.	
<input type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input type="checkbox"/> Watershed protection and management.	
<input type="checkbox"/> Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
<input type="checkbox"/> Evaluation of climate change impacts on the state's water supply and flood control systems	
<input type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency Information			
Agency or Organization: Western Municipal Water District			
Contact Name	First: Jack	Last: Safely	
Mailing Address- P.O. Box 5286 Riverside, CA 92517-5286	Street Address: 450 E Alessandro Boulevard		
City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: Chino II Desalter Ultimate Expansion from 10 to 20.5 MGD			
Project Location: Unincorporated Riverside County in JCSD service area			
Watershed/Sub-watershed: Middle Santa Ana River watershed			
Groundwater Basin: Chino Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project and a map showing project area/location): Expand existing Chino II Desalter capacity from 10 MGD to 20.5 MGD. Will construct Chino well field to achieve hydraulic control of Chino Basin (6 wells). Will construct pump station and approximately 10,000 feet of pipeline. Pre design for the expansion has been completed. Water from the Chino II Desalter expansion can be delivered to Corona and Elsinore Valley MWD via the Mills Gravity Line (confirm) with completion of the Central reach of the Riverside-Corona Feeder.			
Annual Water Yield (AF): 10,600	Total Project Cost: \$ 107M	year of estimate: <u>2007</u>	
	Fixed O&M: \$___/yr	Variable O&M: \$___/yr	
Funds Requested: \$	Cost Matching Funds: \$30 M from WMWD		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: Grant funds for implementation of a Chino II desalter expansion have been received as follows: \$2.8 to IEUA from Prop 50. \$15M pending to City of Ontario from DPH; and \$5 M to WMWD			

SWRCB Non-point source pollution reduction. In addition WMWD has budgeted \$30 M for the expansion. An application has been submitted for \$15M from DPH.

Project phases completed: Planning

Design (RO and IX facilities only)

Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: Chino II Desalter Expansion Preliminary Engineering Report	Consultant: Carollo Engineers	Date: Jan 2008
Title: Chino Desalter Phase III Alternatives Evaluation	Consultant: Carollo Engineers	Date: May 2007
Title: Chino II Desalter Expansion Ion Ex. System and Ancillary Components Technical Specs and Drawings	Consultant: Carollo Engineers	Date: Nov 2007
Title: Chino II Desalter Expansion RO System and Ancillary Components Technical Specs and Drawings	Consultant: Carollo Engineers	Date: Nov 2007

Has CEQA been completed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No CEQA has been completed for plant expansion but not well field. Completed categorical exemption and will need MND for well field	If no, Expected Date of Adoption: If yes, Date of Adoption: Oct 2008	
CEQA-document type (Cat Ex; ND/MND, EIR): MND and Cat Ex.		
Permits Required and Status: DPH permits for treatment plant		
Land Acquisition Status, if required: Need land acquisition for well field		
This project is an: <input type="checkbox"/> Independent operable project <input checked="" type="checkbox"/> Operable segment of larger project If larger project, # of expected phases <u>1</u>		
Larger project: Chino II Desalter	Start Date: July 2008	Complete Date: 2012
Project Partners identified, if any: Direct beneficiaries include JCSD, City of Ontario		
Main Challenges to Project Implementation: Institutional agreements with Chino Basin Desalter Authority		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
<input checked="" type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	Will serve disadvantaged communities within JCSD
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	Treatment of Chino Basin groundwater for drinking water
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Access to banked groundwater through the proposed Chino Basin Dry Year Yield project
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Desalting of Chino Basin groundwater for drinking water
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Agency or Organization: Western Municipal Water District			
Contact Name	First: Jack	Last: Safely	
Mailing Address- P.O. Box 5286 Riverside, CA 92517-5286	Street Address: 450 E Alessandro Boulevard		
City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: System Interconnections with City of Riverside			
Project Location: 3 locations (Whitegate PS, Campbell Reservoir, and Mockingbird PS)			
Watershed/Sub-watershed: Middle Santa Ana River			
Groundwater Basin: Riverside GW Basins and Bunker Hill Basin			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project and a map showing project area/location): Three system interties with City of Riverside to serve WMWD Retail area demands for regular daily use in non-summer demand periods. The project will allow WMWD to store water in Bunker Hill basin and access the water through the City of Riverside system. Additionally, the project will help provide Arlington and Chino Desalter water to WMWD retail agencies by connecting City of Riverside facilities with WMWD at the Mockingbird PS, thereby allowing water to be conveyed to other retailers through the Mills Gravity Line. The 3 interties are proposed at: Whitegate PS, Campbell Reservoir, and Mockingbird PS. WMWD is in the process of designing the interties in cooperation with the City of Riverside and has allocated \$2.7 million in its CIP for design and construction.			
Annual Water Yield (AF): (not applicable)	Total Project Cost: \$ 2.7 m	year of estimate: 2007	
	Fixed O&M: \$___/yr		
	Variable O&M: \$___/yr		
Funds Requested: \$	Cost Matching Funds: 100% through WMWD and City of Riverside		

Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project: DPH Water Security Grant Funds	
Project phases completed: <input checked="" type="checkbox"/> Planning Design to be completed 08/09	Construction contract award date: 2009

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Cat Ex or MND		
Permits Required and Status: Local encroachment permits		
Land Acquisition Status, if required: NA		
This project is an: <u>X</u> Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: City of Riverside and WMWD Retail area benefit from the project		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	Water distribution between WMWD and City of Riverside.
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	Construction of interties will increase system reliability and allow water to be banked in the Bunker Hill Basin. Allows for more reliability if Mills WTP is inoperable.
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Mailing Address- P.O. Box 5286 Riverside, CA 92517-5286	Street Address: 450 E Alessandro Boulevard		
City: Riverside	State: CA	Zip: 92517	
Email: jafely@wmwd.com	Phone: (951) 780-5041	Fax: (951) 780-3837	
Project Information			
Project Name: System Interconnections with City of Corona			
Project Location: Lester WTP PS and Arlington Desalter Turnout to City of Corona			
Watershed/Sub-watershed: Middle Santa Ana River			
Groundwater Basin: Arlington and Temescal Basins			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project and a map showing project area/location): Two interties at Lester WTP PS and Arlington Desalter Turnout to City of Corona are proposed between the WMWD Retail and Corona water systems. These would provide additional reliability to WMWD with the proposed expansion of the Arlington Desalter and Chino Desalter by allowing the additional water supply to be conveyed to WMWD's system.			
Annual Water Yield (AF): not applicable	Total Project Cost: \$ 2 m year of estimate: 2007 Fixed O&M: \$___/yr Variable O&M: \$___/yr		
Funds Requested: \$	Cost Matching Funds: 100%		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Describe any other funding opportunities under consideration/available to this project: - WMWD has set aside \$2m for design and construction of this project in its CIP. Possible candidate for DPH			

Water Security Grant Funds.	
Project phases completed: <u> X </u> Planning _ Design in 2008/2009, construction in 2009/2010	Construction contract award date: 2009

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title:	Consultant:	Date:

Has CEQA been completed? <input type="checkbox"/> Yes <input type="checkbox"/> No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): Cat Ex, or MND		
Permits Required and Status: Encroachment Permits		
Land Acquisition Status, if required: NA		
This project is an: <input checked="" type="checkbox"/> Independent operable project <input type="checkbox"/> Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: City of Corona and WMWD Retail benefit from this project.		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
<input checked="" type="checkbox"/> Drinking water treatment and distribution.	Water distribution between City of Corona and WMWD.
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	This project allows for exchange of water between Corona and WMWD Retail.
<input checked="" type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	Conveys Chino and Arlington Desalter water
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: System Interconnections with EVMWD			
Project Location: at EVMWD Temescal Valley P.S. and in Murrieta			
Watershed/Sub-watershed: Santa Margarita			
Groundwater Basin: Temecula			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Planning			
Project Description (incl. goal of project and a map showing project area/location):			
<p>Two interties are proposed between WMWD and EVMWD. One intertie is part of the construction of the EVMWD Temescal Pump Station that is proposed to raise the HGL of the existing EVMWD Temescal Valley pipeline and thereby increasing the capacity of the EVMWD Temescal Valley pipeline from WMWD to EVMWD. In addition, WMWD Retail is studying the design of the proposed EVMWD Temescal Pump Station so that it can be operated in reverse i.e. from EVMWD to WMWD so that in emergency situations, WMWD can receive water from EVMWD to WMWD Retail.</p> <p>The second intertie is in the southern EVMWD service area and is to serve the WMWD Murrieta Division. The intertie is multi-phased and will initially provide a connection to an 8-inch diameter pipeline at Symphony Park Lane from the EVMWD 1434 Zone to the east of I-15 near Murrieta to the Murrieta 1280 zone at Juniper Street and Madison Avenue with a 0.5 mile 24-inch diameter pipeline that crosses under I-15; Phase 2 would continue the 24-inch pipeline 0.4 miles to a connection to a 10-inch or 12-inch at Lincoln Avenue, Phase 3 would be to continue the 24-inch pipeline one mile to include development of a direct connection between Murrieta and the terminus of the Auld Valley Pipeline from the MWD EM-17 turnout where EVMWD has 37.5 cfs of turnout capacity. Since turnout capacity at EM-17 is limited, this project could be supplemented in the future by construction of a parallel to the Auld Valley</p>			

Pipeline. The second intertie supplements an existing 3 cfs connection between EVMWD and the Murrieta Division along Palomar Road.	
Annual Water Yield (AF):	Total Project Cost: \$ 600,000 for Temescal P.S. upsizing; \$3.8 m for construction only of Phases 1, 2, and 3 of Murrieta year of estimate: 2007 Fixed O&M: \$___/yr Variable O&M: \$___/yr
Funds Requested: \$	Cost Matching Funds: \$
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Describe any other funding opportunities under consideration/available to this project:	
Project phases completed: <input checked="" type="checkbox"/> Planning <input type="checkbox"/> Design	Construction contract award date:

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: TM 3 for Temescal P.S. Reverse Flow	Consultant: Kennedy/Jenks Consultants	Date: Feb 2008
Title: Letter Report for Alternatives EVMWD connection to WMWD Murrieta Division	Consultant: Kennedy/Jenks Consultants	Date: Jan 2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes <u>X</u> No	If no, Expected Date of Adoption: Following completion of pre-design If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR): ND/MND likely		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: <u>X</u> Independent operable project ___ Operable segment of larger project If larger project, # of expected phases _____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any: EVMWD		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
___ Water conservation and water use efficiency.	
___ Safe and reliable drinking water supply for small or disadvantaged communities.	
___ Drinking water treatment and distribution.	
___ Resolution of significant water-related conflicts.	
<input checked="" type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	The two interconnections, in conjunction with a third interconnection between EVMWD and WMWD Murrieta Division provides reliability to both WMWD Retail and Murrieta Divisions.
___ Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
___ Multipurpose flood management programs to integrate flood control and water supply systems	
___ Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
___ Non-point source pollution reduction, management and monitoring.	
___ Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
___ Watershed protection and management.	
___ Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
___ Evaluation of climate change impacts on the state's water supply and flood control systems	
___ Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	



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Mailing Address P.O. Box 5286 Riverside, CA 92517-5286	Street Address: 450 E Alessandro Boulevard		
City: Riverside	State: CA	Zip: 92517	
Email: jsafely@wmwd.com	Phone: (951) 789-5041	Fax: (951) 780-3837	
Project Information			
Project Name: Disadvantaged Community Outreach and Implementation Pilot Program for Conservation Programs			
Project Location: WMWD Service Area			
Watershed/Sub-watershed: Middle Santa Ana River			
Groundwater Basin: NA			
Project Type (check applicable) <input checked="" type="checkbox"/> Construction <input checked="" type="checkbox"/> Planning			
Project Description (incl. goal of project and a map showing project area/location): Opportunities for implementation of conservation programs exist within WMWD's service area through outreach to disadvantaged communities. These communities include areas within but not limited to Jurupa CSD, Rubidoux CSD, The Cities of Riverside and Corona, Riverside Highlands WC, Box Springs MWC, Home Gardens SD, and Elsinore Valley MWD. These communities typically exhibit a higher percentage of total water use as indoor water use, and are typically not targeted well in regional conservation programs. The project will seek to provide outreach to disadvantaged communities to promote and implement indoor conservation programs, such as shower and toilet replacement incentives. Disadvantaged communities could be identified with US Census Data and by working with the Riverside County Economic Development Agency.			
Annual Water Yield (AF):	Total Project Cost: \$	year of estimate: _____	
	Fixed O&M: \$___/yr		
	Variable O&M: \$___/yr		
Funds Requested: \$	Cost Matching Funds: \$		
Is your agency/org. able to fund pre-construction work, design, CEQA, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No			

Describe any other funding opportunities under consideration/available to this project: Potential candidate for DWR Water Use efficiency and MWD Water conservation funds

Project phases completed: ___Planning ___Design

Construction contract award date: NA

Work completed to date included: (Tech memo's, planning studies, design reports, etc.)		
Title: WMWD Water Use Efficiency Master Plan	Consultant: Kennedy/Jenks	Date: June 2008
Title:	Consultant:	Date:
Title:	Consultant:	Date:
Title:	Consultant:	Date:

Has CEQA been completed? ___Yes ___No	If no, Expected Date of Adoption: If yes, Date of Adoption:	
CEQA-document type (Cat Ex; ND/MND, EIR):		
Permits Required and Status:		
Land Acquisition Status, if required:		
This project is an: ___Independent operable project ___Operable segment of larger project If larger project, # of expected phases_____		
Larger project:	Start Date:	Complete Date:
Project Partners identified, if any:		
Main Challenges to Project Implementation:		

Does the project include any of the following elements? (check all that apply)	Briefly explain how project includes element
Water Supply	
<input checked="" type="checkbox"/> Water conservation and water use efficiency.	Will promote water conservation and water use efficiency programs.
<input type="checkbox"/> Safe and reliable drinking water supply for small or disadvantaged communities.	
<input type="checkbox"/> Drinking water treatment and distribution.	
<input type="checkbox"/> Resolution of significant water-related conflicts.	
<input type="checkbox"/> Increased local/regional water supply reliability through water banking, exchange, groundwater recharge, or management.	
<input type="checkbox"/> Treatment (including desalting) or distribution of reclaimed waste or contaminated water.	
Stormwater Management	
<input type="checkbox"/> Multipurpose flood management programs to integrate flood control and water supply systems	
<input type="checkbox"/> Floodplain mapping and local land-use planning to avoid or reduce flood risks.	
<input type="checkbox"/> Non-point source pollution reduction, management and monitoring.	
<input type="checkbox"/> Storm water capture, storage, clean-up, and treatment.	
Land Use/Sustainability	
<input type="checkbox"/> Watershed protection and management.	
<input type="checkbox"/> Integration of water management with land use planning to promote sustainable development, reduce greenhouse gases, or revitalize community centers.	
<input type="checkbox"/> Evaluation of climate change impacts on the state's water supply and flood control systems	
<input type="checkbox"/> Removal of invasive non-native species; the creation, enhancement, or protection of ecosystems, open space, park space, and watershed lands.	