

Proposal Full View

[Print](#)

Applicant Information

Organization Name *

Tax ID **956006490**

Proposal Name **Sentinel Well Project** *

Proposal Objective
 The Project has the following goals and objectives: • Install a sentinel well as one required component to put contaminated drinking wells back into service. • Provide water quality data and feedback about the current groundwater basin status before and after the two contaminated drinking wells are put back into service. • Provide input for groundwater modeling that can determine adequacy of remedial actions. • Stabilize groundwater supplies in the Rialto-Colton Basin and reclaim operational flexibility. *

Budget

Other Contribution	<input type="text" value="\$0.00"/>
Local Contribution	<input type="text" value="\$299,500.00"/>
Federal Contribution	<input type="text" value="\$0.00"/>
Inkind Contribution	<input type="text" value="\$0.00"/>
Amount Requested	<input type="text" value="\$250,000.00"/> *
Total Project Cost	<input type="text" value="\$549,500.00"/> *

Geographic Information

Latitude * DD(+/-) MM SS

Longitude * DD(+/-) MM SS

Longitude/Latitude Clarification **Center of project area** Location **Adjacent to the Rialto United Methodist Church property at 1230 N. Lilac Avenue, Rialto, CA**

County **San Bernardino ***

Ground Water Basin **Upper Santa Ana Valley-Rialto-Colton**

Hydrologic Region **South Coast**

Watershed **Santa Ana River Watershed**

Legislative Information

Assembly District **52nd Assembly District,55th Assembly District ***

Senate District **21st Senate District,23rd Senate District ***

US Congressional District **District 31 (CA),District 35 (CA) ***

Project Information

Project Name

Implementing Organization	West Valley Water District
Secondary Implementing Organization	
Proposed Start Date	4/1/2013
Proposed End Date	12/31/2014

Project Scope	The proposed project will result in the construction of a Sentinel Well that will serve as a groundwater monitoring well situated between Rialto Well No. 6 (sensitive downgradient receptor) and the 160-acre area (inferred upgradient source of groundwater contaminant plume). The scope of work includes: project administration, easement obtainment, planning, design, environmental documentation, and construction. For details see the Scope of Work (Attachment 5).
---------------	--

Project Description	The proposed Sentinel Well will serve as a groundwater monitoring well situated between Rialto Well No. 6 (sensitive downgradient receptor) and the 160-acre area (inferred upgradient source of groundwater contaminant plume). Chemical impacts first detected in the Sentinel Well will serve as a warning that impaired groundwater may be moving closer to Rialto Well No. 6. The Sentinel Well will be located far enough upgradient of Rialto Well No. 6 (within the 10-year capture zone) to allow enough time to initiate mitigative measures to prevent contamination from reaching the water supply well. A capture zone analysis was conducted on behalf of the District to estimate the source-water areas of District Well No. 11 and Rialto Well No. 6 for time horizons of 2, 5, 10, 15, 20, and 30 years, using an approach consistent with the general guidelines for capture zone evaluation described in USEPA (2008). Based on this analysis, it was determined that a sentinel well was needed for Rialto Well 6 because no existing well was located or perforated to adequately meet the 97-005 surveillance criteria. Rialto Wells 3, 4, and 5 already
---------------------	---

	serve as sentinel wells for District Well No. 11. The District proposes the installation of the Sentinel Well in the vicinity of the West Base Line Road and Lilac Avenue intersection for surveillance monitoring purposes of Rialto Well No. 6. The Sentinel Well is proposed to be installed on the Rialto United Methodist Church property located at 1230 N. Lilac Avenue.
Project Objective	The Project has the following objectives: • Install a sentinel well as one required component to put contaminated drinking wells back into service. • Provide water quality data and feedback about the current groundwater basin status before and after the two contaminated drinking wells are put back into service. • Provide input for groundwater modeling that can determine adequacy of remedial actions. • Stabilize groundwater supplies in the GW Basin and reclaim operational flexibility.

Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Groundwater Management-Monitoring wells installed	0	required sentinel well to be installed per CDPH 97-005 permit.
Secondary	Watershed Protection-Water Quality Improvement	4300	Monitoring well will improve water quality in basin and watershed
Tertiary	Other-Project Performance	0	Water Quality: Constituents - Perchlorate, TCE, Nitrate

Project Objective

Budget

Other Contribution	0
Local Contribution	299500
Federal Contribution	0
Inkind Contribution	0
Amount Requested	250000
Total Project Cost	549500

Geographic Information

Latitude DD(+/-)	34	MM 7	SS 19
Longitude DD(+/-)	117	MM 22	SS 52
Longitude/Latitude Clarification	Center of projec	Location	Adjacent to the Rialto United Methodist Church
County	San Bernardino Ground Water Basin Upper Santa Ana Valley-Rialto-Colton Hydrologic Region South Coast WaterShed		
Watershed	Santa Ana River Watershed		

Legislative Information

Assembly District	52nd Assembly District,55th Assembly District
Senate District	21st Senate District,23rd Senate District
US Congressional District	District 31 (CA),District 35 (CA)

Section : Applicant Information and Question's Tab

APPLICANT INFORMATION AND QUESTION'S TAB

Q1. Applicant Information

Provide the agency name, address, city, state, and zip code of the applicant submitting the application.
 West Valley Water District 855 W. Base Line Road Rialto, CA 92377

Q2. Proposal Description:

Provide a brief abstract of the Proposal. This abstract must provide an overview of the proposal including the main issues and priorities addressed in the proposal. Within the abstract, please describe how the proposal relates to the GWMP's BMO's.

The majority of West Valley Water District's (District) service area is located in the north-central part of the Rialto-Colton Groundwater Basin (Basin). Groundwater has been a primary water source in the region for decades, and the Basin has provided a substantial portion of the overall groundwater supply. Groundwater samples collected from the District Well No. 11 and Rialto Well No. 6 indicate that perchlorate, a chemical causing acute health effects, exceeds more than three times the 6 ?g/L MCL. Untreated groundwater with elevated levels of perchlorate, nitrate, and volatile organic compounds (VOCs) is considered an extremely impaired source by CDPH. For this reason, the District and the City of Rialto (Rialto) have removed adversely impacted production wells from service, pending the installation of appropriate treatment measures. The loss of these wells has made it challenging for the District and Rialto to maintain operational flexibility and to meet seasonal peak water demands. The proposed Sentinel Well Project is part of a greater project called the ?Groundwater Wellhead Treatment System Project,? which involves the construction and operation of a groundwater wellhead treatment system to remove perchlorate, nitrate and VOCs from groundwater coming from two Public Water System drinking water production wells: Rialto Well No. 6 and District Well No. 11. A sentinel well is needed for Rialto Well 6 because no existing well is located or perforated to adequately meet surveillance criteria. Rialto Wells 3, 4, and 5 already serve as sentinel wells for District Well No. 11. The proposed Sentinel Well will serve as a groundwater

monitoring well situated between Rialto Well No. 6 and the 160-acre area (inferred upgradient source of groundwater contaminant plume). Chemical impacts first detected in the Sentinel Well will serve as a warning that impaired groundwater may be moving closer to Rialto Well No. 6. The Sentinel Well will be located far enough upgradient of Rialto Well No. 6 (within the 10-year capture zone) to allow enough time to initiate mitigative measures to prevent contamination from reaching the water supply well. The Basin does not have an adopted groundwater management plan with specific basin management objectives; however, groundwater within the Rialto-Colton Basin is managed through court adjudications, namely the 1961 Rialto Basin Decree. The State of California recognizes three basic forms of groundwater management: (1) management by local agencies under authority granted in the California Water Code or other applicable State statutes (e.g., AB3030 Plan), (2) local government groundwater ordinances or joint powers agreements, and (3) court adjudications. The allocation of groundwater pumped from the Basin during low-water conditions is governed by a stipulated judgment known as the 1961 Rialto Basin Decree. The 1961 Rialto Basin Decree stipulates that parties to the Decree may pump unlimited volumes of groundwater if the average of the spring-high groundwater elevation at three index wells exceeds 1,002.3 feet above mean sea level (MSL). If the index-well average spring-high groundwater elevation falls below 969.7 feet above MSL, each party's entitlement is reduced by 1 percent for every foot the average is below 969.7 feet above MSL. Current groundwater elevations in the Basin have resulted in a 19% reduction in groundwater pumping per the stipulations of the Rialto Basin Decree. The successful completion and operation of the treatment system will result in approximately 2,000 gallons per minute (gpm) of treated groundwater restored to the District's drinking water supply for distribution. The District and Rialto will be able to restore water supply lost due to water quality impairment and decrease reliance on imported water. The amount of water supply to be restored is 4,302 AF/yr, or over 30 years (projected life of treatment project), approximately 129,060 AF.

Q3. Project Director:

Provide the name and details (including email) of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

Mr. Anthony Araiza, General Manager West Valley Water District 855 W. Base Line Road Rialto, CA 92377 (909)875-1804 X703 aaraiza@wvwd.org

Q4. Project Manager:

Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Mr. Thomas Crowley, Deputy General Manager West Valley Water District 855 W. Base Line Road Rialto, CA 92377 (909)875-1804 X702 tcrowley@wvwd.org

Q5. Additional Information:

Based on the region's location, what is the applicable DWR region office (Northern, North Central, South Central, or Southern)? The following link can be used to view each DWR region office boundaries:

http://www.water.ca.gov/groundwater/groundwater_basics/gw_contacts_info.cfm

- 1) Northern Region
- 2) North Central Region
- 3) South Central Region
- 4) Southern Region

Q6. Additional Information:

Provide the Date of GWMP Adoption, if any, and list the pursuant Water Code Section or other legal Authority in which it was adopted.

The Rialto-Colton Basin was adjudicated in the Lytle Creek Water & Improvement Company vs. Fontana Ranchos Water Company, et al., San Bernardino County Superior Court Action 81264, entered on December 22, 1961 (1961 Basin Decree). Fontana Water Company (FWC), City of Rialto, City of Colton, and West Valley Water District are subject to the 1961 Basin Decree. Entitlement extractions for any given water year (October 1 to September 30) are affected by groundwater elevations between March and May for three specific index wells (Duncan Well, Willow Street Well, and Boyd Well). Under specified conditions, groundwater extractions may be limited during certain months.

Q7. Additional Information:

Provide a list of documents that support and indicate collaboration with other local public agencies with regard to the management of the affected groundwater basin (e.g., MOUs, MOAs, JPAs, adoption of a GWMP, recognition of county ordinances in permitting processes, or party to a groundwater basin adjudication order).

1. 2010 San Bernardino Valley Regional Urban Water Management Plan (June 2011) 2. Upper Santa Ana River Watershed Integrated Regional Water Management Plan (November 2007) 3. Cooperative Agreement to Protect Water Quality and Encourage the Conjunctive Uses of Imported Water in the Santa Ana River Basin (July 2007) 4. Agreement Relating to the Diversion of Water from the Santa Ana River System Among Western Municipal Water District of Riverside County, Valley District and City of Riverside (Seven Oaks Accord, July 2004) 5. The 1961 Rialto Basin Decree (Lytle Creek Water & Improvement Company vs. Fontana Ranchos Water Company, et. al., filed under the San Bernardino County Superior Court Action 81264, entered on December 22, 1961) 6. The Western Judgment (Western Municipal Water District of Riverside County v. East San Bernardino County Water District, filed under the Riverside County Superior Court Case No. 78426 on April 17, 1969)

Q8. Additional Information

Name the entity(ies) providing the fund(s) reported in the above Budget section under the category "Other Contribution". If there are no "Other Contributions" Please answer this question with, "No Other Contributions".

No Other Contributions

Q9. Eligibility:

List the urban water suppliers that will receive funding from the proposed grant. Please provide the agency name, a contact phone number and email address. Those listed must submit self certification of compliance with CWC §525 et seq. and AB1420, see Attachment 10. If there are none, so indicate.

West Valley Water District Linda Jadeski, Water Resource Analyst (909)875-1804 X352 ljadeski@wvwd.org

Q10. Eligibility:

Have all of the urban water suppliers, listed in Q9 above, submitted complete 2010 UWMP to DWR? If not, explain why. Have those plans been verified as complete by DWR? If not, explain current status.

The West Valley Water District is one of eight water agencies included in the 2010 San Bernardino Valley Regional Urban Water Management Plan (RUWMP), submitted to DWR July 12, 2011. DWR reviewed West Valley's portion of the 2010 RUWMP and found that it addressed the requirements of the California Water Code,

as evidenced by a letter dated December 16, 2011.

Q11. Completeness Check:

Have all of the fields in the application been completed?

Yes

Q.11. Completeness Check (cont)

If no, please explain. If yes, answer this question with "NA".

NA

Section : Application Attachments Tab

APPLICATION ATTACHMENTS TAB

Attachment 1. Authorizing Documentation

Upload authorizing documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att1_LGA12_WestValleyWD_AuthDoc_1of1.pdf

Attachment 2. Eligible Applicant Documentation

Upload eligible documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att2_LGA12_WestValleyWD_EligDoc_1of2.pdf,Att2_LGA12_WestValleyWD_EligDoc_2of2.pdf

Attachment 3. Status of GWMP

Upload the GWMP documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att3_LGA12_WestValleyWD_GWMP_1of2.pdf,Att3_LGA12_WestValleyWD_GWMP_2of2.pdf

Attachment 4. Project Description

Upload project description here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att4_LGA12_WestValleyWD_ProjD_1of2.pdf,Att4_LGA12_WestValleyWD_ProjD_2of2.pdf

Attachment 5. Work Plan

Upload work plan here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments:

Att5_LGA12_WestValleyWD_WrkPln_1of4.pdf,Att5_LGA12_WestValleyWD_WrkPln_3of4.pdf,Att5_LGA12_WestValleyWD_WrkPln_2of4.pdf,Att5_LGA12_WestValleyWD_WrkPln_4of4.pdf

Attachment 6. Budget

Upload budget here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att6_LGA12_WestValleyWD_BUDGET_1of2.pdf,Att6_LGA12_WestValleyWD_BUDGET_2of2.pdf

Attachment 7. Schedule

Upload schedule here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att7_LGA12_WestValleyWD_SCHED_1of2.pdf,Att7_LGA12_WestValleyWD_SCHED_2of2.pdf

Attachment 8. Quality Assurance

Upload quality assurance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att8_LGA12_WestValleyWD_QA_1of1.pdf

Attachment 9. Past Performance

Upload past performance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att9_LGA12_WestValleyWD_PERFORM_1of3.pdf,Att9_LGA12_WestValleyWD_PERFORM_2of3.pdf,Att9_LGA12_WestValleyWD_PERFORM_3of3.pdf

Attachment 10. AB1420 and Water Meter Implementation Compliance

Upload 1420 and water meter implementation documentation here, if applicable. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att10_LGA12_WestValleyWD_1420_1of1.pdf