



WEST VALLEY WATER DISTRICT
855 W. BASE LINE ROAD, RIALTO, CA 92376
PH: (909) 875-1804
WWW.WVWD.ORG

REGULAR BOARD MEETING
AGENDA

Thursday, April 17, 2025, 6:00 PM

BOARD OF DIRECTORS

Gregory Young, President
Daniel Jenkins, Vice President
Estevan Bennett, Director
Angela Garcia, Director
Kelvin Moore, Director

"In order to comply with legal requirements for posting of agendas, only those items filed with the Board Secretary's office by noon, on Wednesday a week prior to the following Thursday meeting, not requiring departmental investigation, will be considered by the Board of Directors."

Members of the public may attend the meeting in person at 855 W. Base Line Road, Rialto, CA 92376, or you may join the meeting using Zoom by clicking this link: <https://us02web.zoom.us/j/8402937790>. Public comment may be submitted via Zoom, by telephone by calling the following number and access code: Dial: (888) 475-4499, Access Code: 840-293-7790, or via email to administration@wvwd.org.

If you require additional assistance, please contact administration@wvwd.org.

CALL TO ORDER

ROLL CALL OF BOARD MEMBERS

APPROVAL OF ANY BOARD MEMBERS REQUESTS FOR REMOTE PARTICIPATION

PLEDGE OF ALLEGIANCE

OPENING PRAYER

CLOSED SESSION

1. PUBLIC EMPLOYMENT PURSUANT TO GOVERNMENT CODE 54957(B)(1).

Title: Chief Financial Officer.

ADOPT AGENDA

PUBLIC PARTICIPATION

Any person wishing to speak to the Board of Directors on matters listed or not listed on the agenda, within its jurisdiction, is asked to complete a Speaker Card and submit it to the Board Secretary, if you are attending in person. For anyone joining on Zoom, please wait for the Board President's instruction to indicate that you would like to speak. Each speaker is limited to three (3) minutes. Under the State of California Brown Act, the Board of Directors is prohibited from discussing or taking action on any item not listed on the posted agenda. Comments related to noticed Public Hearing(s) and Business Matters will be heard during the occurrence of the item.

Public communication is the time for anyone to address the Board on any agenda item or anything under the jurisdiction of the District. Also, please remember that no disruptions from the crowd will be tolerated. If someone disrupts the meeting, they will be removed.

PRESENTATIONS

1. Scholarship Contest Winners
2. Perchlorate Update

CONSENT CALENDAR

1. April 3, 2025 Regular Board Meeting Minutes

BUSINESS MATTERS

Consideration Of:

1. Well 2 Rehabilitation Budget Adjustment and Purchase Order

REPORTS

1. Board Committee Reports
2. Board Members
3. General Manager
4. Legal Counsel
 - Updates on current legal topics/best practice
5. Public Outreach Government Affairs
6. Board Secretary

UPCOMING MEETINGS

- April 14, 2025 – Finance Committee Meeting at 6:00 p.m.
- April 17, 2025 - Regular Board Meeting at 6:00 p.m.
- April 22, 2025 – Executive Committee Meeting at 6:00 pm
- April 24, 2025 – Adjourned Eng, Ops, and Planning Committee Meeting at 6:00 p.m.
- April 28, 2025 – External Affairs Committee Meeting at 6:00 p.m.

UPCOMING COMMUNITY EVENTS

- April 12, 2025 - WVWD Workshop - Making Conservation a Way of Life
- April 12, 2025 – Fontana’s Special Needs Resource Fair
- April 19, 2025 – Cub Scout Tour of FBR
- April 19, 2025 – Rialto’s Spring Eggstravaganza
- April 19, 2025 – Fontana Easter Eggstravaganza
- April 19, 2025 – Colton Spring Celebration
- April 25, 2025 – WVWD Earth Day Celebration
- April 26, 2025 – Earth Day Clean in Bloomington
- May 3, 2025 – Mother’s Day Succulent Workshop in Bloomington
- May 3, 2025 – Fontana’s Day Parade

UPCOMING EDUCATIONAL & TRAINING OPPORTUNITIES

- April 21 – ASBCSD Monthly meeting
- April 21 – 24 – CSDA Spring Leadership Academy
- April 25 – Sothern California Water Coalition Quarterly Meeting – La Quinta

ADJOURN

Please Note:

Material related to an item on this Agenda submitted to the Board after distribution of the agenda packet are available for public inspection in the District’s office located at 855 W. Baseline, Rialto, during normal business hours. Also, such documents are available on the District’s website at www.wvwd.org subject to staff’s ability to post the documents before the meeting.

Pursuant to Government Code Section 54954.2(a), any request for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in the above-agendized public meeting should be directed to the Board Secretary, Elvia Dominguez, at least 72 hours in advance of the meeting to ensure availability of the requested service or accommodation. Ms. Dominguez may be contacted by telephone at (909) 875-1804 ext. 703, or in writing at the West Valley Water District, P.O. Box 920, Rialto, CA 92377-0920.

DECLARATION OF POSTING:

I declare under penalty of perjury, that I am employed by the West Valley Water District and posted the foregoing Agenda at the District Offices on April 10, 2025.

Elvia Dominguez

Elvia Dominguez, Board Secretary

Date Posted: April 10, 2025

REGULAR BOARD MEETING
of the
WEST VALLEY WATER DISTRICT
April 3, 2025

OPENING CEREMONIES

Call to Order – 6:00 p.m.
Roll Call of Board Members

Attendee Name	Present	Absent	Arrived
Directors			
Angela Garcia	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Estevan Bennett	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Kelvin Moore	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Daniel Jenkins	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Gregory Young	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
General Counsel			
Jeff Ferre	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Staff			
John Thiel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Linda Jadeski	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Haydee Sainz	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Joanne Chan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Elvia Dominguez	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Socorro Pantaleon	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Rocky Welborn	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Gustavo Gutierrez	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Albert Clinger	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
JPW Consultant			
Leslie Springs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Approval of Any Board Member Requests for Remote Participation - None.
Pledge of Allegiance – The Pledge of Allegiance was led by Director Bennett.
Opening Prayer –Pastor Townsend.

CLOSED SESSION

Public Participation on closed session matters.

WVWD

Minutes: 4/3/25

President Young inquired if anyone from the public would like to speak on closed session items. No requests were received to speak, therefore President Young closed the public comment period

The Board entered into closed session at 6:03 p.m.

1. CONFERENCE WITH LEGAL COUNSEL-EXISTING LITIGATION
Paragraph (1) of subdivision (d) of Government Code Section 54956.9
Name of case: Naseem Farooqi v. West Valley Water District et al.
2. PUBLIC EMPLOYMENT PURSUANT TO GOVERNMENT CODE 54957(B) (1)
Title: Chief Financial Officer

The Board adjourned the closed session at 6:32 p.m. to conduct the business portion of the meeting which commenced at 6:33 p.m. with all Board members present except Director Garcia who was absent.

Report out of Closed Session

General Counsel Ferre reported that the Board discussed the closed session items and no reportable action was taken.

ADOPT AGENDA

A request was received to postpone the Perchlorate presentation to the next meeting as Director Garcia was absent and she originally requested the presentation.

Motion to adopt the amended agenda, pulling the perchlorate presentation to the next scheduled Board meeting.

RESULT:	ADOPTED [UNANIMOUS]
MOVER:	Daniela Jenkins
SECONDER:	Kelvin Moore
AYES:	Gregory Young Estevan Bennett, Daniel Jenkins, Kelvin Moore
ABSENT:	Angela Garcia

PUBLIC PARTICIPATION

President Young inquired if anyone from the public would like to speak.. No requests were received to speak, therefore President Young closed the public comment period.

PRESENTATIONS

Perchlorate Update (Postponed to next scheduled meeting)

WVWD

Minutes: 4/3/25

CONSENT CALENDAR

Motion to approve Consent Calendar items #1 - #5, and to pull GM contract item to for discussion.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Dan Jenkins, Vice President
SECONDER:	Kelvin Moore, Director
AYES:	Gregory Young ,Estevan Bennett, Daniel Jenkins, Kelvin Moore,
ABSENT:	Angela Garcia

1. March 20, 2025 Regular Board Meeting Minutes
2. Consider a Water System Infrastructure Installation and Conveyance Agreement with IV5 Bloomington Gateway Distribution Center, LLC for Bloomington Business Park Offsite (Jurupa Ave, Linden Ave, 5th St)
3. Consider a Water System Infrastructure Installation and Conveyance Agreement with IV5 Bloomington Gateway Distribution Center, LLC for Bloomington Business Park SP
4. Consider an Amendment to a Water System Infrastructure Installation and Conveyance Agreement and Reimbursement Agreement for R2-3 Reservoir Facilities Improvements with IDIL West Valley Logistics Center, LP.
5. Joint Community Facilities Agreement for Avila Collection TTM 20481 (CFD No. 2024-1) and Adopt Resolution Approving Agreement

BUSINESS MATTERS

1. Support Nomination(s) for ACWA JPIA Executive Committee Election

Human Resources and Risk Manager Sainz Presented the report.

Discussion included the number of seats up for election, which Human Resources and Risk Manager Sainz confirmed was three. Attorney Ferre confirmed that the Board could support any nominees or adopt to support all three.

Vice President Jenkins commented on his preference to support all three nominees.

Motion to approve the nomination of all three candidates.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Daniel Jenkins
SECONDER:	Kelvin Moore
AYES:	Gregory Young, Estevan Bennett, Daniel Jenkins, Kelvin Moore,
ABSENT:	Angela Garcia

2. Rate Study Update

The report was presented by Finance Manager Gutierrez, Public Outreach and Government Affairs Manager Pantaleon, and JPW Consultant Leslie Springs.

WVWD

Minutes: 4/3/25

Questions included how the rate study will be distributed and to how many rate payers. Miss Pantaleon and Consultant Springs commented that the survey will be sent to all customers and will be distributed via social media, district channels, newsletters, bill call outs, with responses collected digitally with the goal to capture 500 responses. Additionally, all accommodations that fall into ADA compliance would be addressed.

There were additional questions on the possible increase of full-time employees, which General Manager Thiel clarified was over the 5 year forecast as a possibility due to increase in capacity, and new water conservation regulations.

The Board collectively thanked the presenters. No action was taken by the Board

3. Amendment to a Professional Services Agreement to Complete the Rialto Basin Groundwater Management Plan

The report was presented by Director of Engineering Welborn.

Motion to 1) Authorize entering into a Professional Services Agreement with Stetson Engineers following acceptance by other RBGC entities. 2) Authorize the General Manager to execute all necessary documents related to the agreement with Stetson and RBGC entities to complete the Rialto Basin Groundwater Management Plan.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Daniel Jenkins
SECONDER:	Kelvin Moore
AYES:	Gregory Young, Estevan Bennett, Daniel Jenkins, Kelvin Moore,
ABSENT:	Angela Garcia

REPORTS - LIMITED TO 5 MINUTES MAXIMUM (Presentations or handouts must be provided to Board Members in advance of the Board Meeting).

1. Board Committee Reports

Director Bennett gave an Engineering, Operations, and Planning Committee meeting update.

Director Moore gave an External Affairs Committee meeting update.

2. Board Members

Vice President Jenkins reported on his attendance at Assembly member Robert Garcia's Open House; his and President Young's attendance at the San Bernardino County MAC meeting; commented on his son's 5th birthday; and commented on Assistant General Manager Jadeski's upcoming birthday and wished her a happy birthday.

President Young thanked everyone for the reports, and asked for continued prayers for Director Garcia and her family.

WVWD

Minutes: 4/3/25

3. General Manager

General Manager Thiel provided an update on recruitment and reported on the priority items he will be working on in the next few months

4. Legal Counsel

None.

5. Government & Legislative Affairs

Manager of Public Outreach and Government Affairs Pantaleon gave a legislative, community partnership, and a community outreach update.

6. Board Secretary

Board Secretary Dominguez provided an update on upcoming Board meetings and events.

ADJOURN

President Young adjourned the meeting at 7:30 p.m.

ATTEST:

Elvia Dominguez, Board Secretary

WVWD

Minutes: 4/3/25



STAFF REPORT

DATE: April 17, 2025
TO: Board of Directors
FROM: Joanne Chan, Director of Operations
SUBJECT: Well 2 Rehabilitation Budget Adjustment and Purchase Order

STRATEGIC GOAL:

Strategic Goal 1 - Manage and Deliver a Safe, Reliable, and Sustainable Water Supply
C. Provide Effective Source Water Treatment

MEETING HISTORY:

N/A

BACKGROUND:

Well 2 was pulled for inspection due to vibrations observed from the pump shaft. As the well components were disassembled, it was discovered that the pump bowl assembly requires repairs due to wear and tear, approximately 460 feet of corroded column pipe needs replacement, and the motor needs to be replaced. The well casing shows some plugging with both physical and microbial materials. Attached as **Exhibit A** is the inspection report. The project consists of using high-energy pressure pulses to break up mineral scales and biofilms from well screen and surrounding gravel pack, performing dual air swab to airlift debris to the surface, repairing the pump bowl assembly, replacing the motor, performing post-rehabilitation video survey, and disposing of all debris.

DISCUSSION:

On January 29, 2024, a Request for Proposal (RFP) was issued and publicly advertised on PlanetBids. Five (5) firms – General Pump Company, Inc. (GPC), Well Tec Services (WTS), Best Drilling and Pump, Inc. (BDP), South West Pump & Drilling, Inc. (SPD), and Layne Christensen Company (LCC) – submitted proposals for as-needed maintenance and repair services. The District awarded the contract to General Pump and executed the agreement on April 4, 2024.

General Pump has the entire well pump assembly and motor in their shop and has assembled a quote totaling **\$243,307.10** for the Well rehabilitation project. Attached as **Exhibit B** is the quote. Going forward and completing the repair and replacement with General Pump would ensure the well is back in service in the shortest possible timeline.

FISCAL IMPACT:

Approval of budget adjustment that consists of:

Transfer From

FY Budget 2024-25 Contingency \$125,000.00

FY Budget 2024-25 Project W25000 \$120,000.00

Transfer To

FY Budget 2024-25 Project W25038 \$245,000.00

REQUESTED ACTION:

1. Approve the budget adjustment and purchase order for the Well 2 rehabilitation project with General Pump in the amount not to exceed \$243,307.10 and;
2. Authorize the General Manager to execute all necessary documents.

Attachments

[Exhibit A - Inspection Report.pdf](#)

[Exhibit B - Quote.pdf](#)

EXHIBIT A

COMPANY NAME: General Pump Company, Inc.
 WELL INSPECTED: WVWD Well 2
 FIELD NAME: Rialto
 STATE: California

WELL ADDRESS: Folsom Dr.
 GPS LOCATION: N34o9'6"
 W117o22'9"

DATE: 4/8/2025
 RUN NO: One
 JOB TICKET: 25408
 TOTAL DEPTH: 885.2 ft.
 WATER LEVEL: 106.7 ft.
 OIL ON WATER: No AMT: None
 OPERATOR: Nelson
 GUIDE SET: 17.00 in
 CHRIS NELSON @ (909) 809-9815

DEPTH	OBSERVATIONS	PERFORATION	FROM SURVEY
0.0 ft.	Start survey at top of casing.		
30.0ft	Heavy spalling on casing.	Hydraulic	462.3 ft. to 688.2 ft.
106.7ft	SWL; water clear, visibility fair.	Louvers	734.5 ft. to ?
256.0ft	Hard scaling on casing.		
367.2ft	Bio-fouling.		
462.3ft	Top of louvers; appear partly open. End is at 688.2 ft.		
500.4ft	Louvers appear fairly open.		
565.6ft	Louvers appear open.	CASING SIZE	FROM SURVEY
626.8ft	Hard scaling on casing.	20.00 in	0.0 ft. to 885.2 ft.
734.5ft	Top of louvers; appear plugged.		
757.1ft	Louvers appear plugged.		
775.0ft	Heavy build-up.		
825.0ft	Camera laying hard on low side of well.		
862.8ft	Louvers appear plugged.		
885.2ft	Fill; end survey.		

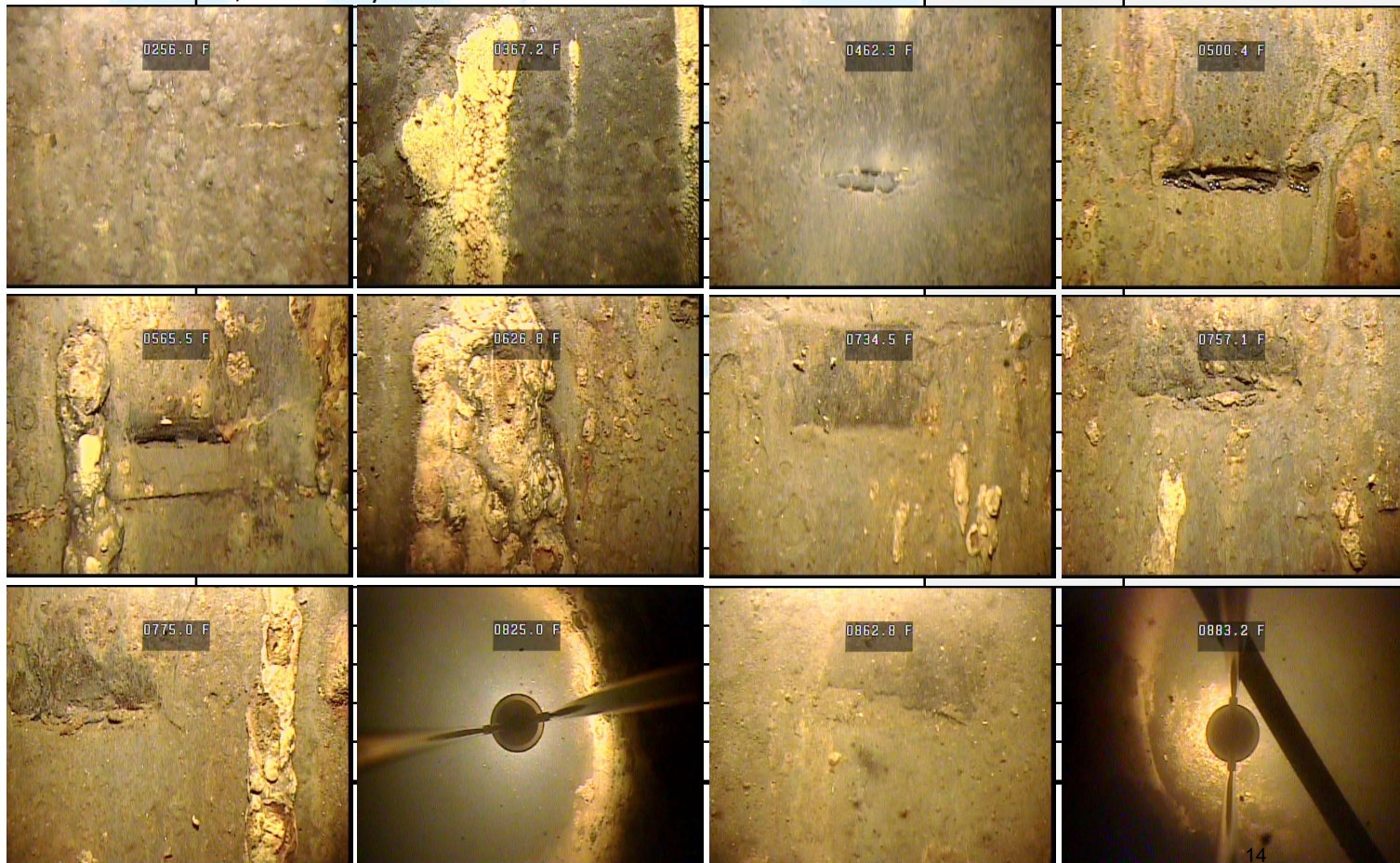


EXHIBIT B



159 N. ACACIA STREET * SAN DIMAS, CA 91773
PHONE: (909) 599-9606 * FAX: (909) 599-6238

CAMARILLO, CA 93010 * PHONE: (805) 482-1215
www.genpump.com

WELL & PUMP SERVICE SINCE 1952

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April 08, 2025

Job # 16521

West Valley Water District
855 West Baseline Rd
Rialto, CA 92377
Attn: Sergio Granda

Subject: Well 2 Emergency Repair, Light Well Cleaning and Reinstallation

General Pump Company is pleased to provide our quote to repair and reinstall the pump equipment and motor recently pulled from the above referenced well site.

This quote includes all new equipment apart from the pump head, for quoting purposes and due to the age of the motor, a new motor cost is included with contingency cost for new wire, seal tight flex and connectors, along with the labor to install the electrical if needed. The quote includes wire brushing and uses a special chlorine chamber during the brushing activity, a light Boreblast will be used to help break down cemented materials and includes a follow up video. Lastly installation and start up. Please allow 5-6 weeks after approval for installation. Performance and Payment Bond Included.

Note: All labor rates per 2025 On-call well maintenance agreement:

Cost Proposal

Shop Labor

	<u>Hours</u>
Unload and stage new pump materials; quality assurance	4
Check proper fit of new suction pipe and strainer; weld lugs and prepare for installation	4
Tear down and inspect new bowls; reassemble and prepare for installation	8
Check proper fit of new column pipe; steam-clean and tighten couplings	10
Uncrate, stage, and check proper fit of new line shafts	2
Unbox new line shaft couplings; apply anti seize on threads and install on shafts	3
Set-up and stab shafting assemblies in column pipe; stage equipment	4.5
Unbox and check proper fit of new retainers; palletize and prepare for installation	1
Remove top column flange and nipple from discharge head	1.5
Deliver head to Sandblaster; Load-up, trave time, and unloading	2
Pick-up head from Sandblaster; travel time, load-up, and unloading	2
Steam-clean top column assembly (or flange) and wire brush mating areas	3
Machine new top column pipe and install flange	5
Machine discharge head parallel and concentric to pump center line	8



Retap holes on discharge head, paint to finish, and prepare for installation	3
Fit and fabricate new SS CAL-OSHA Window Screens	2
Machine new top tube	4.5
Rebuild existing seal box assembly to manufacturer's standards	5
Set-up, plumb, and install copper oil line	2
Uncrate new motor; check proper fit and prepare for installation	2
Handle client's motor; load, unload, stage, and prepare for installation	1
Check proper fit of new Airline assembly; gather bracket & fittings and prep for installation	1
Clean and recondition components in parts bucket/Replace as necessary	2
Gather necessary gaskets, fittings, and bolting to accommodate pump installation	2
Dispose leftover junk materials	2
Tear down and inspect bowls; provide report and recommendations	4
Pressure-wash and inspect new T&S assemblies	6
Engineering inspection and report	(Included)

Est. 96.5 Hrs. @ \$110/Hr. **\$ 10,615.00**

Materials

• 10" 316SS Cone Strainer	\$ 920.00
• 10" X 10' X .279" TOE NPT Suction Pipe	655.00
• 14-RJMC 5-stg Bowl Assembly	24,137.00
• 12" X 20' X .279" TNC Butt Pipe	42,629.00
• 12" X 5' X .330" TBE Butt Nipple	612.00
• HP 1800RPM 460V 175% Thrust WP1 RUSI VHS US Motor	43,220.00
• 3" X 1-15/16" X 20' T&S Assembly	37,745.00
• 3" x 5' Oil Tube	210.00
• 12" BWS Centralizer	480.00
• Top Column Flange Gasket & Bolt Kit	128.00
• Materials to Refurbish 14" Discharge Head	718.00
• Stainless-Steel Material for CAL-OSHA Screens	182.00
• Materials to Rebuild 3" Stretch Assembly	436.00
• Oil pot reservoir w/ mounting kit	228.00
• 1-15/16" 416SS Head Shaft w/ Nut & Key	1,398.00
• 1/4" SS Airline Assembly w/ Gauge, Bracket, and Fitting	1,342.00
• Banding and Buckles for Airline Assembly	328.00
• 14",150# Discharge Gasket w/ Nut & Bolt Kit	118.00
• J-Box Electrical Connection Kit	310.00
• ISO Oil for Electric Motor	98.00
• Consumables (Grease, Sealer, Solvent, Etc.)	242.00
• Estimated shipping and handling	3050.00
• HTH Granular Chlorine	145.00
Tax 7.75%	12,348.15
	\$171,679.15



Outside Service

• Sandblast discharge head	\$ 710.00
• Video log	1,200.00
• Security – Est (5) nights @ 740/ night	3,700.00
• Portable toilet w/ sanitizing station	675.00

Rental

• Wire brush and bailer	\$ 400.00
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NPDES Compliance

• Roll-off, lab fee's and neutralization equipment	\$ 2,500.00
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Field Labor

Brush and Bail

- Mobilize to site and conduct brief tailgate safety meeting.
- Verify lock out / Tag out electrical source.
- Set up and wire brush screened interval and use chlorine chamber, bail as needed

2-Men combo rig & service truck	
Est. 12 Hrs. @ \$375/Hr.	\$ 4,500.00
Est. OT 4 Hrs. @ \$160/Hr.	\$ 640.00

Airburst

Airburst Technology and Operator	\$12,600.00
• Airburst perforated area of well located @ 464' – 695' and 734' – 884'.	
• Additional Rig support	
2- Men with combo rig & Service Truck	
– Est 10 Hrs. @ \$375/Hr.	\$ 3,750.00
– Est OT 2 Hrs. @ \$160/Hr.	320.00



Field Labor (cont)

Install

- Mobilize to site and conduct brief tailgate safety meeting.
- Verify lock out / Tag out electrical source.
- Install complete new pump equipment.
- Install new motor, wire up and check rotation.
- Adjust pump & demobilize.

1-Man & rotary crane

Est. 30 Hrs. @ \$220/Hr.

2-Men and combo rig & service truck

Est. 30 Hrs. @ \$375/Hr.

Est. OT 6 Hrs. @ \$240/Hr.

\$19,290.00

Electrician

- Contingency for new wire & labor to wire new 300 HP motor.

Electrician

Est. 16 Hrs. @ \$160/Hr.

\$ 2,560.00

Electrical Materials

- New seal tight flex, flex connectors, wire& lugs \$ 1,780.00
Tax 7.75% \$ 137.95

\$ 1,917.95

Field Labor

Start Up

- Start up & test, record data, pull, flow, voltage, amps and vibration

1- Man & service truck

Est. 8 Hrs. @ \$160/Hr.

\$ 1,280.00

Performance and Payment bond

\$4,970.00

Estimated Grand Total **\$243,307.10**



Sergio Granda
West Valley Water District
April 8, 2025
Page -2-

Should you have any questions or need additional information regarding the above summary and associated costs, please do not hesitate to contact us. Thank you for the opportunity to provide a quote for our services and we look forward to working with you on this important project.

GENERAL PUMP COMPANY, INC.

Tom Nanchy

Tom Nanchy
Sr. Project Manager

Perchlorate Update



THE SUN POLLUTION CLEAN-UP

News ▾ Sports ▾ Entertainment ▾ Lifestyle ▾ Obituaries ▾ Opinion ▾ Special Reports ▾ Ma

Home News Pollution clean-up

How a Rialto water plant may make environmental clean-up history



Chief operator Sergio Granda explains Thursday the new unit at West Valley Water District. The unit breaks apart harmful perchlorate by using bacteria in the water treatment process. This reactor will go on line in a few weeks, providing drinking water to residents. Photo by Frank Perez

SAN BERNARDINO COUNTY
WATER CONFERENCE

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August 12, 2016
7:00 - 12:00

HOME DROUGHT INFRASTRUCTURE CONSERVATION LEGISLATION

California Water News Daily

DON'T MISS Northern reservoirs start water year 2017 with 4.9 million acre-feet of water but drought persists

Home ▾ Infrastructure ▾ West Valley Water District allowed to remove perchlorate from drinking water

West Valley Water District allowed to remove perchlorate from drinking water

By California Water News Daily on May 25, 2016

SHARE TWEET SHARE SHARE 0 COMMENTS

First in the country project is approved by state water board

The board of directors and staff of West Valley Water District (WVWD) have announced the approval from the State Water Resources Control Board (SWRCB) Division of Drinking Water permitting the operation of a Groundwater Wellhead Treatment System to remove perchlorate, nitrate and trichloroethylene from two WVWD drinking water wells.

The SWRCB Division of Drinking Water has authorized WVWD to use a natural bioremediation process to remove perchlorate from drinking water supplies. The bioremediation process is a new, first-in-the-nation groundbreaking and cost effective technology.

Dr. Clifford O. Young, Sr., president of the WVWD board of directors hailed the new process and opportunity saying, "We are thrilled to be at the forefront of new technologies and treatments, bringing innovation to better serve our customers and deliver clean drinking water to our community."

Perchlorate has been present in the Rialto-Colton Groundwater Basin and the city of Rialto and the WVWD shut down the affected wells. Specialized water treatment facilities were constructed to treat water from some of those wells.

However, because perchlorate is both a naturally occurring and a man-made chemical – used in rocket fuel, fireworks, flares and explosives attributed to past military and manufacturing operations in the area – treatment using the facilities WVWD constructed becomes increasingly expensive as higher contamination sources are treated and, consequently, the treatment is not cost-effective.

WVWD will begin using the new bioremediation process this summer which will remove perchlorate from two local drinking wells. The district serves Bloomington, Colton, Fontana, Rialto and parts of an unincorporated area in San Bernardino and a segment of the Jurupa Valley in Riverside County.



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LATEST CALIFORNIA DROUGHT NEWS

POPULAR COMMENTS



Metropolitan Water District Shares Good News For Region's Imported Water Needs

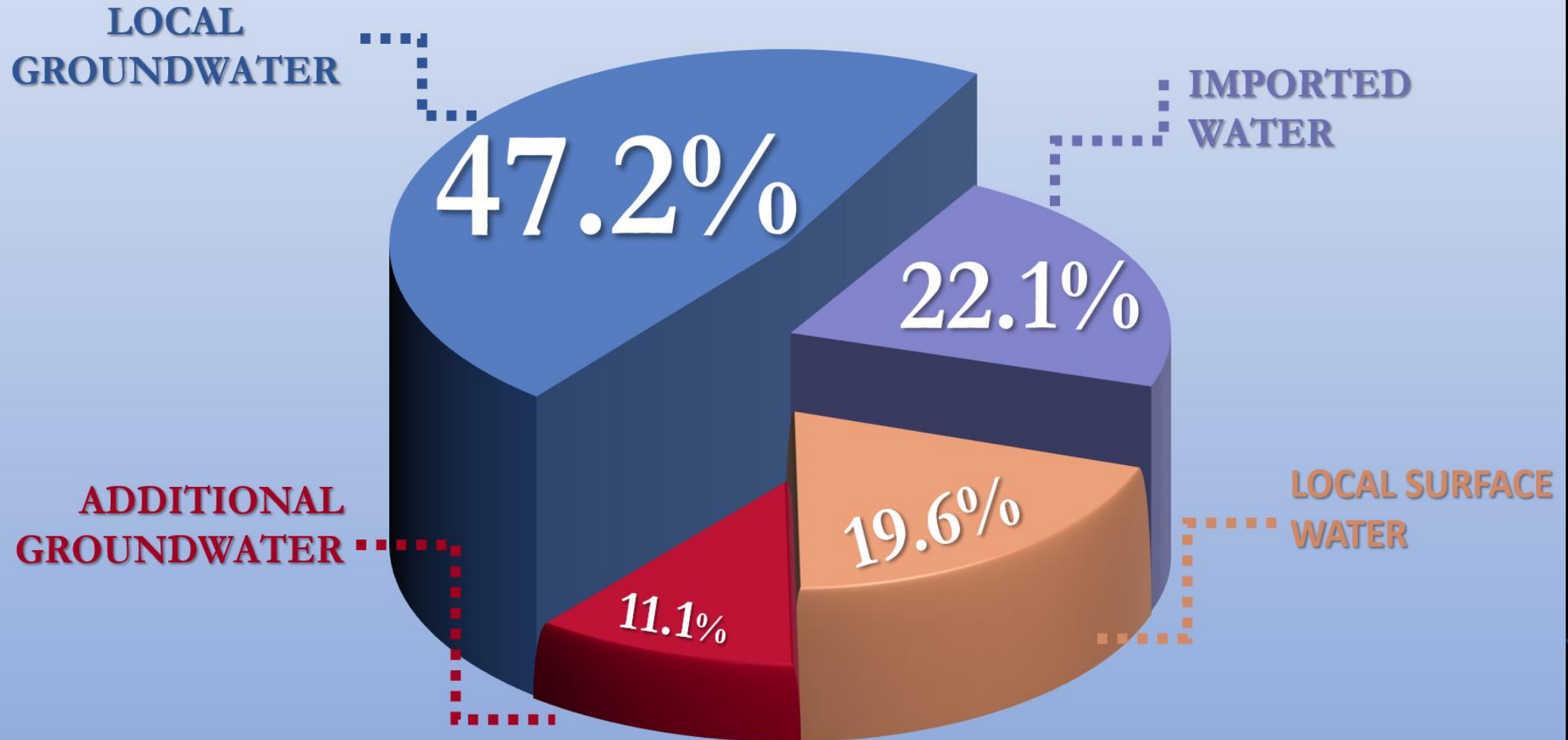
Metropolitan Water District (MWD), the Southland's largest water supplier...

October 12, 2016 3



Northern Reservoirs Start Water Year 2017 With 4.9 Million Acre-Feet Of

SOURCES OF WATER




West Valley Water District



Perchlorate

- An inorganic ion, ClO_4^-
- White crystalline solid or colorless liquid
- Highly soluble in water, migrates quickly from soil to groundwater
- Both a naturally occurring and man-made chemical
 - May occur naturally in hot and dry region such as the southwestern US; a natural impurity in nitrate salt from Chile imported and used to produce fertilizer.
 - A compound of flares, rocket fuels, fireworks, matches, and airbag initiators for vehicles



Pathways for human exposure include ingestion of contaminated food and drinking water.

Thyroid gland is the primary target.

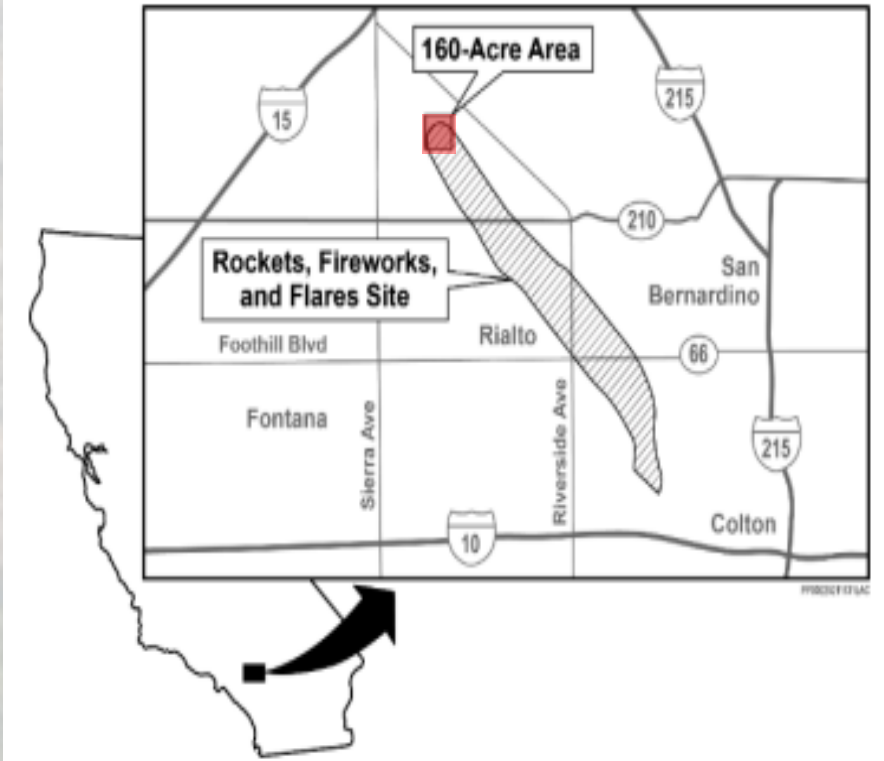
Interferes with iodide uptake into the gland leading to a reduction of thyroid hormones.

Affects metabolism:

Exhaustion, depression, & weight gain

Rocket, Fireworks, and Flares Superfund (RFF) Site Location

(160-Acre Area)



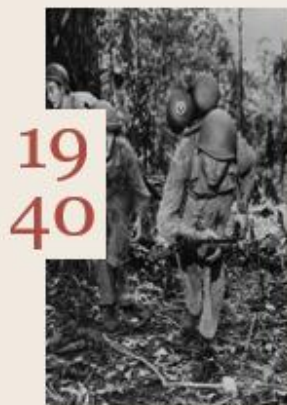
History Timeline

160-ACRE AREA

1940

1946

Developed by the **U.S. Army** as an inspection, consolidation, and storage for ammunition



1952

1957

Emhart Industries

manufactured photoflash flares and ground-burst simulators

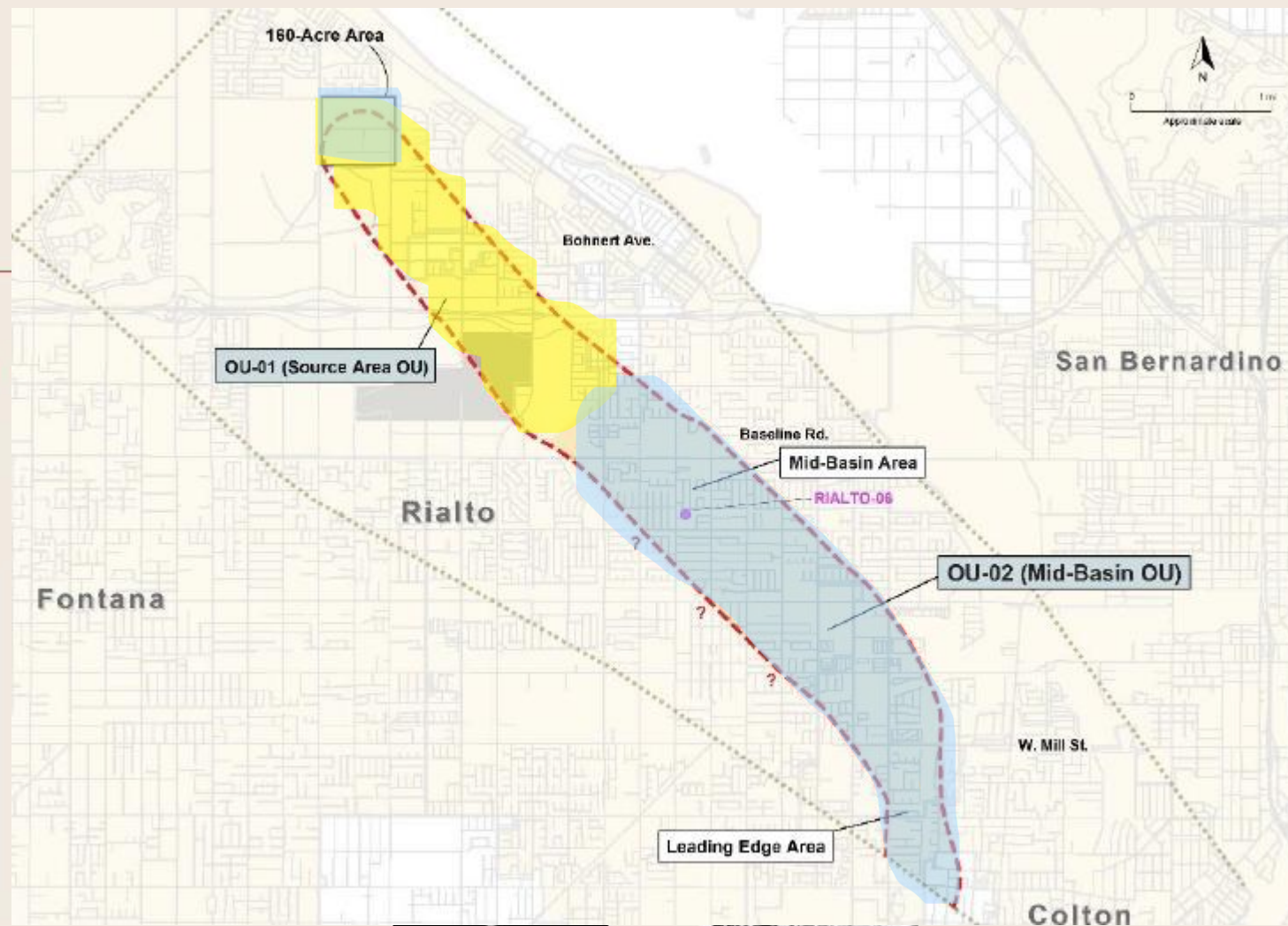


1957

1962

Raytheon Corp.

produced solid-fuel rocket propellant, missile, & motor.



HISTORY TIMELINE

2005

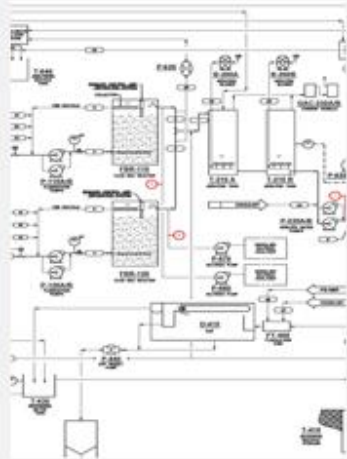
Shut down several wells due to perchlorate



1998



Started to install ion exchange on wells with low levels of perchlorate



2011

Began construction of the FBR

2016



FBR startup

Funding Sources	
FBR	
California DPH (Proposition 84)	\$10M
SWRCB (CAA Account)	\$2.8M
Dept. of Defense	\$2.9M
DWR Prop. 84 via SAWPA	\$1.0M
WVWD	\$3.0M
Rialto	\$3.0M

2016

2021

2023

WVWD

Rialto Well 6 Source Well for FBR



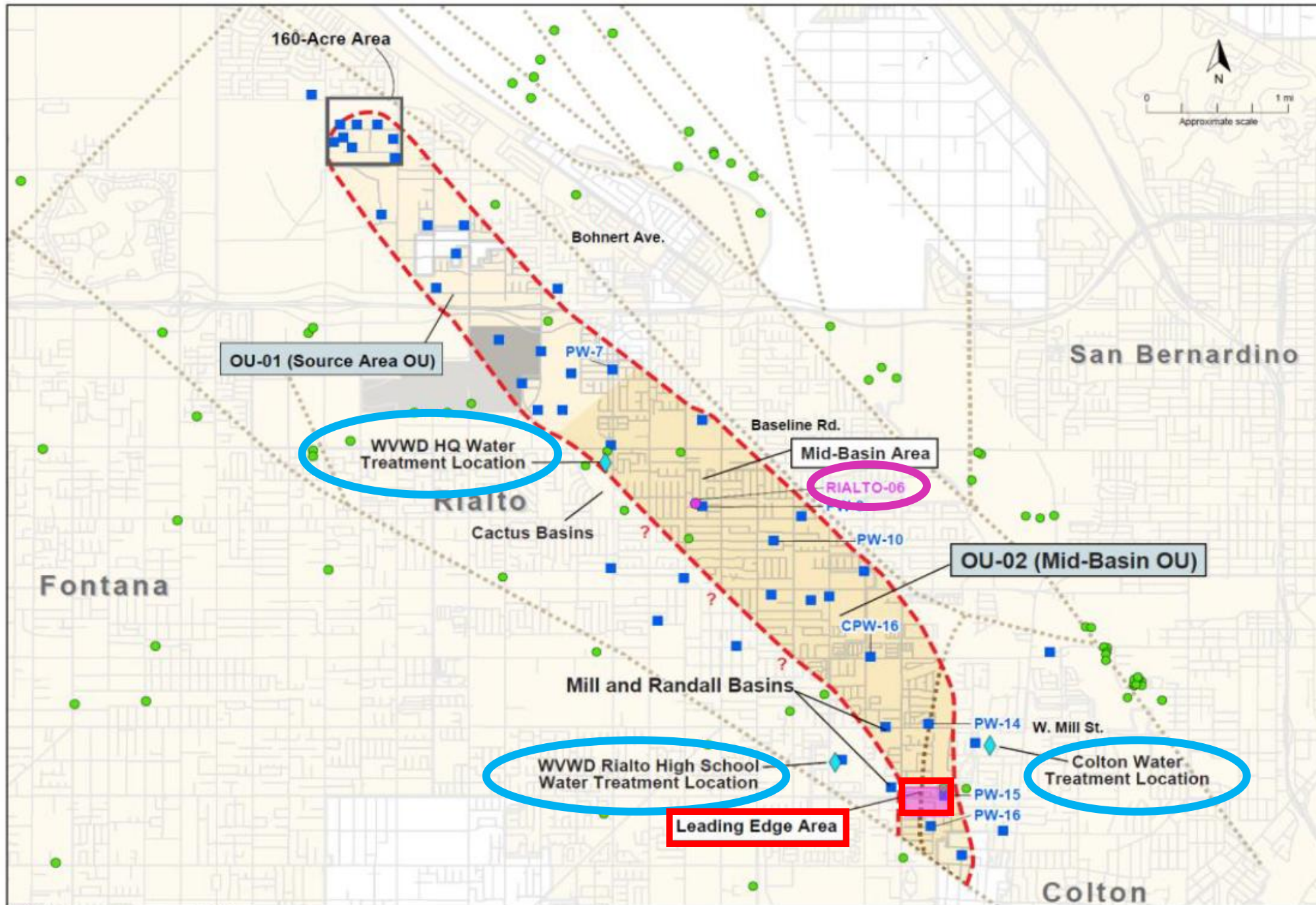
Rockets, Fireworks, and Flares Superfund Site Perchlorate Concentrations at the Rialto-06 Drinking Water Well

Record of Decision (ROD)

- **Remedial Action Objectives:**

- Prevent the spread of groundwater where site-related contaminant concentrations are high to protect drinking water supply wells.
- Remove contaminants until the concentrations are below the perchlorate MCL.
- Protect public health by not exposing the public with high levels of perchlorate in water.





LEGEND

- Approximate Extent of RFF Site Perchlorate Contamination
- Water Supply Well
- Monitoring Well
- Possible Groundwater Extraction Location
- Existing Extraction Well
- Fault Lines
- Road
- ◆ Possible Water Treatment Locations

2027

Additional Activities:

1. ROD requires a new well to operate at the toe of the plume.
2. Identify a treatment system for treatment.
3. Switch from FBR to ion exchange to treat Rialto Well 6.
4. Save Rialto-Colton Basin Water rights for the new well. Reduce Rialto well 6 capacity from the current 2,000 gpm to 750 gpm.



- **OU1 – Emhart/Rialto’s Project**
 - RFF Site Five-Year Review Site Inspection
- **OU2 – Raytheon/WVWD’s Project**
 - Oxygen and Chlorine Isotopic Ratios
 - Synthetic (160-acre) vs. Indigenous (Chilean nitrate fertilizer)
- **Strategic Plan**
 - Strategic Goal 4 – Strengthen Partnerships with outside agencies
 - B – Be Recognized as a Leader and Effective Regional Collaborator
 - Participated in the perchlorate task force
 - D – Develop and Maintain Strong Relationships with Local, State, and Federal Agencies
 - Collaborate with local agencies on joint infrastructure projects.



Q&A

