



**SAN BERNARDINO
VALLEY** | A REGIONAL WATER
AGENCY SINCE 1954

**BOARD OF DIRECTORS WORKSHOP - RESOURCES/ENGINEERING
2:00 pm Tuesday, April 9, 2024**

In Person:

380 East Vanderbilt Way
San Bernardino, CA 92408

Online via Zoom:

<https://sbvmwd.zoom.us/j/82492309440>

Meeting ID: 824 9230 9440

PASSCODE: 3802020

By Telephone:

Dial-in Info: (877) 853 5247 US Toll-free

Meeting ID: 824 9230 9440

PASSCODE: 3802020

If you are unable to participate online or by telephone, you may also submit your comments and questions in writing for the District's consideration by sending them to comments@sbvmwd.com with the subject line "Public Comment Item #" (insert the agenda item number relevant to your comment) or "Public Comment Non-Agenda Item". Submit your written comments by **6:00 p.m. on Monday, April 8, 2024**. All public comments will be provided to the Board President and may be read into the record or compiled as part of the record.

IMPORTANT PRIVACY NOTE: Online participants **MUST** log in with a Zoom account. The Zoom app is a free download. Please keep in mind: (1) This is a public meeting; as such, the virtual meeting information is published on the World Wide Web and available to everyone. (2) Should you participate remotely via telephone, your telephone number will be your "identifier" during the meeting and available to all meeting participants; there is no way to protect your privacy if you elect to call in to the meeting.



SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
380 E. Vanderbilt Way, San Bernardino, CA 92408

BOARD OF DIRECTORS' WORKSHOP - RESOURCES/ENGINEERING
2:00 PM Tuesday, April 9, 2024

CALL TO ORDER

1) INTRODUCTIONS

2) PUBLIC COMMENT

Members of the public may address the Board regarding any item within the subject matter jurisdiction of the Board; however, no action may be taken on off-agenda items except as authorized by law. Each speaker is limited to a maximum of three (3) minutes.

3) DISCUSSION AND POSSIBLE ACTION ITEMS

- 3.1 Consider Long-Term Water Exchange with the Crestline-Lake Arrowhead Water Agency (20 min) - Pg. 2
[Staff Memo - Consider Long-Term Water Exchange with the Crestline-Lake Arrowhead Water Agency](#)
[Term Sheet for Proposed Long-Term Exchange with CLAWA](#)
- 3.2 Redlands Pump Station Security System Upgrade (30 min) - Page 6
[Staff Memo - Redlands Pump Station Security Upgrade](#)
[Security SBVMWD San Bernardino Avenue - Yard Beams and Conduit System Rev. 03-15-24](#)
[Cameras SBVMWD San Bernardino Ave Plant 32ch NVR Rev 03-19-24](#)

4) FUTURE BUSINESS

5) ADJOURNMENT

DATE: April 9, 2024

TO: Board of Directors' Workshop – Resources/Engineering

FROM: Bob Tincher, Chief of State Water Initiatives/Deputy General Manager

SUBJECT: Consider Long-Term Water Exchange with the Crestline-Lake Arrowhead Water Agency

Staff Recommendation

Authorize staff to work with House Counsel, the Crestline Lake Arrowhead Water Agency (CLAWA) and the Department of Water Resources on the legal document(s) necessary for the long-term, unbalanced water exchange described by the attached term sheet.

Summary

CLAWA desires to enter into a long-term (10-year with possible 5-year extensions) agreement with San Bernardino Valley (SB Valley) to help it manage its State Water Project (SWP) supply. The general terms for the proposed long-term agreement are the same as the terms in the one-year 2023 CLAWA/SB Valley Agreement. For every 1 acre-foot (AF) of water CLAWA provides, SB Valley would return up to ½ AF. The following protections are included for SB Valley:

1. There is no obligation to return any water when we need it for our customers.
2. The annual amount of water returned to CLAWA is limited to 800 AF per year, unless otherwise approved by SB Valley.
3. The cumulative amount of water to be returned to CLAWA is limited to 8,000 AF over the term of the agreement.

Background

Last year, SB Valley entered into a one-year, unbalanced exchange agreement with Crestline Lake Arrowhead Water Agency (CLAWA) to help them manage their SWP carryover water supply. Under the terms of that agreement, Valley District would receive 3,000 acre-feet (AF) of CLAWA's SWP water and would return up to 1,500 AF. Unfortunately, due to the 100% SWP allocation last year, SB Valley had to focus on utilizing its own SWP water supply and was only able to take delivery of about 900 AF from CLAWA.

To help overcome these types of limitations in the future, staff suggested a long-term, unbalanced exchange to CLAWA. Under this long-term agreement, CLAWA would offer any excess SWP water supplies to SB Valley every year which would prevent a buildup of their carryover supply. This approach would also substantially reduce the volume of deliveries to SB Valley making it far more likely that SB Valley would be able to take the deliveries, regardless of the final SWP allocation. CLAWA liked this new concept and staff from both agencies worked to develop terms (attached) for a proposed, new agreement.

Should both agencies decide to proceed with this agreement, the Department of Water Resources will require an Initial Study as compliance with the California Environmental Quality Act (CEQA). SB Valley staff would prepare this document in-house.

District Strategic Plan Application

Supplemental water from the State Water Project helps San Bernardino Valley achieve its mission to work collaboratively to provide a reliable and sustainable water supply to support the changing needs of our region's people and environment.

Fiscal Impact

None

Attachment

Term Sheet for Proposed Long-Term Exchange with CLAWA

Proposed Exchange Agreement Between San Bernardino Valley and Crestline-Lake Arrowhead Water Agency

Recitals

1. CLAWA and San Bernardino Valley (SB Valley) are neighboring State Water Contractors with allocations of water from the State Water Project (SWP)
2. SB Valley and CLAWA have a long history of cooperation
3. From time to time, CLAWA may have excess carryover water from its SWP supply
4. If the volume of CLAWA's carryover gets too high, it becomes vulnerable to loss
5. CLAWA desires to manage its carryover to minimize, or avoid, loss while preserving the option to have some of that water returned, when needed, in the future
6. SB Valley desires to help CLAWA manage its carryover supplies

Terms

1. Ten (10) year agreement with possibility of five (5) year extension(s)
2. Table A supplies of CLAWA and SB Valley will be used in this agreement, although CLAWA could also deliver water that it must take back from another Contractor
3. For every acre-² of CLAWA water received by SB Valley, SB Valley agrees to return up to 0.5 acre-², when requested by CLAWA in its sole discretion.
4. Each party is responsible for paying their own State Water Project costs for delivery of SWP water into their respective service areas.
5. CLAWA, at its sole discretion, will determine the amount of water, if any, to make available to SB Valley under this agreement, provided that the total in any year may not exceed 5,800 acre-²
6. CLAWA will notify SB Valley by August 31st of each year of any water available for the next calendar year. CLAWA may revise the amount provided that said revision is given before said water has been delivered.
7. SB Valley will make every effort to take delivery of any water available from CLAWA but may decline, or reduce, the delivery amount, at its sole discretion based upon facility constraints or other factors.
8. CLAWA will notify SB Valley by August 31st of each year whether they would like to receive any Return Water in the next calendar year. CLAWA may revise their Return Water request any time and will provide SB Valley notice of this revision.
9. SB Valley agrees to make every reasonable effort to fulfill CLAWA's request for Return Water under the following conditions:
 - a. The State Water Project allocation is 40%, or higher.
 - b. Whenever the SWP allocation is lower than 40%, SB Valley, at its sole discretion, will determine the amount of Return Water, if any, it will provide to CLAWA.
 - c. The total amount of Return Water is limited to a maximum of 800 acre-² each year, unless otherwise approved by SB Valley.
10. CLAWA and SB Valley will work together on a mutually agreeable delivery schedule for the delivery of water under this agreement.
11. SB Valley and CLAWA will each enter into an agreement with the Department of Water Resources (DWR) to effectuate this exchange.

12. SB Valley and CLAWA will each order delivery of water, under their agreement with DWR using their unique State Water Project Analysis Office (SWPAO) agreement numbers and will notify each other of their order.
13. CLAWA and SB Valley will maintain a running, annual accounting (accounting) of water provided to SB Valley, the accompanying Return Water obligation and the Return Water received and will provide the accounting for the previous year to each other every year by January 31st. SB Valley and CLAWA will promptly notify each other of any disagreement with the accounting and the parties will work together to resolve.
14. The total amount of Return Water to be returned to CLAWA may never exceed 8,000 acre-feet at any time under the agreement
15. Upon expiration of the agreement, CLAWA must take delivery of any remaining balance of Return Water within five(5) years after expiration of the agreement.

DATE: April 9, 2024

TO: Board of Directors' Workshop – Resources/Engineering

FROM: Leo Ferrando, Assistant Chief Engineer
Melissa Zoba, Chief Information Officer

SUBJECT: Redlands Pump Station Security Upgrade

Staff Recommendation

Staff recommends the Board of Directors consider approving a not-to-exceed expenditure of \$65,000 with TBM Fire and Security for upgrading the security system on the Redlands Pump Station property.

Summary

On August 15, 2023, and January 9, 2024, the Board of Directors (BOD) authorized the purchase of heavy equipment and related components required for the maintenance and operation of various facilities. A significant portion of this equipment will be stored at the District's Redlands Pump Station and Warehouse property. To safeguard the District's investment and ensure the security of both the property and the stored equipment, staff is proposing an upgrade to the security system at this location, with a not-to-exceed expenditure amount of \$65,000. This allocation covers all expenses for labor and materials necessary to install a comprehensive security system, which includes a perimeter beam surrounding the property, a new main gate keypad pedestal, and a state-of-the-art camera system with live monitoring capabilities. This expenditure will enhance the security of the District's assets stored in these facilities, as directed by the Board during the budget discussion regarding the investment in heavy equipment.

Background

The Redlands Pump Station and Warehouse property serves as the primary location for our operations staff and the storage of critical equipment and tools. The security system currently in place includes a gate entry system, controlled building access, and alarm monitoring service. With the addition of heavy equipment to be housed on the property, there is a need to expand the system to protect the equipment yard and ensure the integrity and safety of these assets. The implementation of a comprehensive physical intrusion security system is essential to enhance the

safety and security of our premises, safeguard our valuable assets, and ensure the protection of our staff and property. Unauthorized access, theft, and vandalism can disrupt our operations, result in financial losses, and compromise the safety of our staff. Therefore, staff recommends upgrading the security system to mitigate these risks and safeguard our assets and personnel.

The proposed physical intrusion security system includes perimeter beam sensors and strategically placed cameras equipped with advanced surveillance technology to monitor key areas of the property effectively. Additionally, the system features capabilities for motion detection, license plate recognition, live streaming video monitoring, and remote site access, which will enable staff and emergency response teams to promptly detect and respond to any security incidents or breaches. The attached proposal, including a few optional items, amounts to \$61,003. However, to account for any unexpected expenses or unforeseen circumstances, staff recommends the BOD consider rounding up the budget to \$65,000. The breakdown of the proposal is summarized as follows:

Work Description	Amount
Perimeter Beam Materials and Installation	\$28,496
Network Camera System Materials and Installation	\$32,507
Proposals Total	\$61,003
Not-to-exceed Total Budget with Contingencies	\$65,000

By implementing this system, we aim to deter unauthorized access, minimize theft and vandalism, and enhance overall security measures of the property and facilities.

District Strategic Plan Application

This investment aligns with our Strategic Plan and commitment to proactive risk management in ensuring the safety and security of our operations staff, protecting our valuable assets, and maintaining operational continuity.

Fiscal Impact

The total cost of the proposal is up to \$65,000. Funds for this expenditure are available in the approved 2023/2024 General Fund Budget under Line Item 6260, Vehicle Replacement and Heavy Equipment.

Attachment

TBM Fire and Security Proposals



December 15, 2023

Revised: March 15, 2024

RE: San Bernardino Avenue Facility

San Bernardino MWD
Melissa Zoba
380 Vanderbilt Way
Redlands, California

Email: melissaz@sbrvmwd.com
Cell: 909-709-6631
Phone:

ESTIMATE OF WORK TO BE PERFORMED

Perimeter Beam Installation

1. Conduit System to Power Beams

- a) Provide and install (8) 2" Galvanized post standards, 36" above grade, 24" from fence line, excavate 18" deep hole and provide concrete base at each location. Posts locations will create open barrier for infrared beams projection and aid against false alarms.
b) Provide and install 3/4" underground PVC conduit from East side of warehouse building to East fence line and terminate in 10x10x6" RTPB secured to 2" galvanized post
c) Provide and install 3/4" IMC Galvanized conduit system from above RTPB to the North and South corners of fence line and terminate in 10x10x6" RTPB at each post standard
d) Provide and install 1/2" IMC Galvanized conduit system from RTPB at North/East and South/East corners of fence line alongside North fence line and South fence lines and terminate in 10x10x6" RTPB at each post standard
e) Secure all of the above 3/4" and 1/2" galvanized pipe at base of chain link fence posts with steel J-hooks as needed to protect new piping from damage and hold securely to fence line
f) Provide and install (8) Raintight pull boxes, one at each beam transmitter/receiver location as needed

2. Wiring to Power Beams

- a) Provide and install required copper zone wiring as needed, in new conduit system and terminate in pull boxes
b) Provide and install 1/2" seal tight flex whip from each pull box to beam set as needed.

3. Install Hardwired Security Beam System

- a) Install (2) pairs of 350' Infrared Beam sets along North fence line perimeter adjacent to Orange Grove and City of Redlands Reservoir
b) Install (2) pairs of 350' Infrared Beam sets along East fence line perimeter adjacent to Orange Grove
c) Install (2) pairs of 350' Infrared Beam sets along South fence line perimeter adjacent to Orange Grove
d) Install (2) pair of 350' Infrared beam sets along West fence perimeter adjacent to SCE Substation fencing and across driveway to Warehouse building

4. Alarm Zone Wiring

- a) Install new wiring from existing security system panel, through building, to East side of warehouse building and route through new underground conduit to East fence line as needed
b) Provide (8) separate zones, one zone for each pair of Infrared Beam Sets.

Total Materials and Labor \$ 26,513.00

5. Main Gate - Pedestal with System Keypad
- a) Install (1) Driveway Gate pedestal post arm with concrete base
Location to be determined prior to start of installation as to right or left side of driveway entrance
 - b) Provide (1) 12" x 18" concrete base
 - c) Install (1) Steel box with weatherproof housing and mount on pedestal post arm assembly
 - d) Install (1) security system keypad inside post arm weatherproof box
 - e) Install new conduit and wiring from pedestal post arm keypad to existing underground conduit system at gate operator to security system panel in main building as needed for connection.

Notes:

- Existing underground conduit system to be verified prior to installation
- Beam function for arm/disarm will need to be viewed and verified on this system keypad if not using security system telephone app for system operation.

Total Materials and Labor \$ 1,983.00

Any alteration or deviation from the above specifications involving extra costs will be performed only upon your request and subsequent approval. All additional work is to be performed on a Time and Material basis and billed at a rate of 129.00 per hour plus materials, unless otherwise agreed/quoted. By signing below, you agree to the above proposal, specifications, conditions and authorize TBM Fire dba AAA Alarm Systems to proceed as per this proposal. Payment for services is due upon completion of work. Monitoring contract payments are separate and not part of this proposal.

Submitted By: _____ Accepted By: _____
TBM Fire & Security Owner Date



December 15, 2023

Revised: March 15, 2024

San Bernardino MWD
Melissa Zoba
380 Vanderbilt Way
Redlands, California

RE: San Bernardino Avenue Facility

Email: melissaz@sbrvmwd.com
Cell: 909-709-6631
Phone:

Estimate of work to be Performed

1. New IP PoE Camera System

- a) Install and program (1) 32-Channel NVR .
 - NDAA Approved for Government use and installations.
 - 10-TB storage
 - 8-Megapixel 1080p Recording
 - 30-month factory warranty on NVR
 - Add 373.00 to install UPS battery backup at NVR, this allows the camera system to record when the power is turned off by intruders or others.
 - Add 000.00 to upgrade to (0)-Channel NVR with (0)-Terabyte storage to accommodate additional cameras.
- b) Install (14) 8MP-Megapixel, 2.8MM, IP with AI-Analytic Human Vehicle and Animal Detection
 - Install (0) Interior cameras with Infra-Red vision as directed at time of installation.
 - Install (14) Exterior cameras with Infra-Red vision as directed at time of installation.

Warehouse Building Exterior

- Install (3) cameras on the North side of building and direct across grove and fence line.
- Install (3) cameras on the East side of building and direct across grove and fence line.
- Install (3) cameras on the South side of building and direct across open lot area and future fuel station.
- Install (3) cameras on the West side of building and direct across open parking and entrance areas of building.

Pump House Building Exterior

- Install (1) camera on South-East corner of building looking East across lot
- Install (1) camera on North-West corner of building looking North-East across lot at Warehouse Building
- Install (2) 4-Port switches at Warehouse Building and Pumphouse Building as needed for connectivity with existing wiring between buildings.

After Hours Live Camera Monitoring

1. LIVE Camera Monitoring

- Set up specified cameras on your system and connect to Monitoring Station for LIVE Viewing and Surveillance
- Internet access through your carrier is required for LIVE afterhours monitoring.
- When the cameras are not viewable at our afterhours monitoring center, you will be contacted, alerted of the problem to investigate your Internet Connection, and reset your Cameras NVR unit as needed to restore live viewing.
- We have the option to add an external Speaker (see below) on your building that allows operators to communicate and alert the bad guy that they are being watched, advising they have alerted the Police and that they should leave the premise.
- The idea in today's world is to limit their time on your property to limit damage.
- If you have fenced areas blocking access to security personnel or property, we recommend the installation of a lock box with key for access. We would give the lock box location and code to the dispatch center at the time of reporting activity, only if needed.
- Camera Systems are not 100%, their ability to detect can be affected by inclement weather fog, drizzle, haze or any combination.
- Infrared Beam system installation is highly recommended to aid in the detection process depending on your level of expectations.

2. External Speaker System for Communication

- Provide and install (1) external speaker and connect to customers NVR unit as needed for communication.
- When a person is in your specified areas, is determined to be suspicious, we will speak to them directly over exterior mounted loudspeaker in effort to deter them from moving forward at or around your property.
- If they ignore our request to leave your property, we will dispatch the local authority immediately of trespassers loitering or that they have encroached into private space.
- Installation of "No Trespassing - No Loitering" signage is required for Police to legally remove people from your property, contact TBM or your sign contractor for locations and installation.

Total Materials and Labor

\$ 1,255.00 per kit

2 Camera Monitoring Package

- *Live Video Operator*
- *Live Remote Guard & Patrol*
- *Operator Audio Response*
- *Advanced Video Analytics*
- **\$150/mo Per Camera**
- **\$25/mo Per Audio Speaker**

\$325/month

4 Camera Monitoring Package

- *Live Video Operator*
- *Live Remote Guard & Patrol*
- *Operator Audio Response*
- *Advanced Video Analytics*
- **\$125/mo Per Camera**
- **\$25/mo Per Audio Speaker**

\$525/month

8 Camera Monitoring Package

- *Live Video Operator*
- *Live Remote Guard & Patrol*
- *Operator Audio Response*
- *Advanced Video Analytics*
- **\$115/mo Per Camera**
- **\$25/mo Per Audio Speaker**

\$945/month

16 Camera Monitoring Package

- *Live Video Operator*
- *Live Remote Guard & Patrol*
- *Operator Audio Response*
- *Advanced Video Analytics*
- **\$105/mo Per Camera**
- **\$25/mo Per Audio Speaker**

\$1705/month

