



RESOLUTION NO. 2025-01
RESOLUTION NO. PFA-01
ORDINANCE NO. 2025-01

AGENDA

OUR MISSION

Protect, enhance, and develop Calaveras County's water resources and watersheds to provide safe, reliable, and cost-effective services to our communities.

2021-2026 Strategic Plan, Adopted April 28, 2021, and can be viewed at this [link](#).

Regular Board Meeting
Wednesday, January 8, 2025
1:00 p.m.

[Calaveras County Water District](#)
120 Toma Court
San Andreas, California 95249

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Administration Office at 209-754-3028. Notification in advance of the meeting will enable CCWD to make reasonable arrangements to ensure accessibility to this meeting. Any documents that are made available to the Board before or at the meeting, not privileged or otherwise protected from disclosure, and related to agenda items, will be made available at CCWD for review by the public.

District Board Meetings are open to in-person attendance by the public and are conducted virtually. The public may participate in the District's Board meeting with the link below. Members of the public who participate in the meeting via teleconference or web conference will be given the opportunity to speak and address the Board, and their comments will be included in the recording of the meeting.

While the District makes efforts to facilitate remote participation, please be aware that remote Teams involvement is offered solely for convenience. In the event of a technological malfunction, the Board can only guarantee the receipt of live comments through in-person attendance. With the exception of a noticed teleconference meeting, the Board retains the right to proceed with the meeting without remote access in case of a malfunction.

Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 295 957 501 767

Passcode: 922DvY

[Download Teams](#) | [Join on the web](#)

Or call in (audio only)

[+1 323-647-8603,,278504195#](#)

Phone Conference ID: 278 504 195#

BOARD OF DIRECTORS

Jeff Davidson, President
Scott Ratterman, Director

Cindy Secada, Vice President
Bertha Underhill, Director

Russ Thomas, Director

ORDER OF BUSINESS

CALL TO ORDER / PLEDGE OF ALLEGIANCE

1. ROLL CALL

2. PUBLIC COMMENT

At this time, members of the public may address the Board on any non-agendized item. The public is encouraged to work through staff to place items on the agenda for Board consideration. No action can be taken on matters not listed on the agenda. Comments are limited to three minutes per person.

3. CONSENT AGENDA

The following items are expected to be routine/non-controversial. Items will be acted upon by the Board at one time without discussion. Any Board member may request that any item be removed for later discussion.

3a Approval of the Minutes for the Board Meeting of December 11, 2024
(Rebecca Hitchcock, Clerk to the Board)

3b Review Board of Directors Monthly Time Sheets for December 2024
(Rebecca Hitchcock, Clerk to the Board)

3c Accepting the Canvass and Statement of Results for the November 5, 2024, General Election
(Rebecca Hitchcock, Clerk to the Board) **RES 2025-_____**

4. NEW BUSINESS

4a Discussion/Action regarding Approval of a sole-sourced contract with HDR for relicensing activities associated with CCWD's North Fork Stanislaus River Hydroelectric Project
(Michael Minkler, General Manager)

4b Discussion/Action to Award of Design and Environmental Services for the West Point Water Supply Drought, CIP 11129 Cal-OES/FEMA HMGP DR-4482-601-76R
(Kevin Williams, Senior Civil Engineer) **RES 2025-_____**

4c Discussion/Action Accepting the Eastern San Joaquin Groundwater Authority's Amendments to its Groundwater Sustainability Plan and approving their Submission to the Department of Water Resources
(Damon Wyckoff, Director of Operations)

- Accepting the Eastern San Joaquin Groundwater Authority's Amendments to its Groundwater Sustainability Plan **RES 2025-_____**

- Approving the submittal of the First Periodic Evaluation of the Groundwater Sustainability Plan to the Department of Water Resources **RES 2025-_____**

4d Discussion/Action regarding Appointment to Board Committees and Election of Members to Joint Power Authorities
(Jeff Davidson, Board President)

5. **REPORTS**

5a December 2024 Operations Department Report
(Damon Wyckoff, Director of Operations)

5b* General Manager's Report
(Michael Minkler)

6.* **BOARD REPORTS / INFORMATION / FUTURE AGENDA ITEMS**

7. **NEXT BOARD MEETINGS**

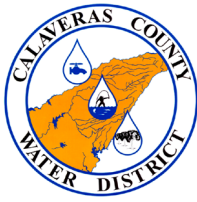
- Wednesday, January 22, 2025, 1:00 p.m., Regular Board Meeting
- Wednesday, February 12, 2025, 1:00 p.m., Regular Board Meeting

8. **CLOSED SESSION**

10a Conference with Legal Counsel – Anticipated Litigation. Significant exposure to litigation pursuant to subdivision (d)(2) of Government Code section 54956.9 - three potential cases

9. **REPORTABLE ACTION FROM CLOSED SESSION**

10. **ADJOURNMENT**



CALAVERAS COUNTY WATER DISTRICT

Board of Directors

District 1 Scott Ratterman
District 2 Cindy Secada
District 3 Bertha Underhill
District 4 Russ Thomas
District 5 Jeff Davidson

Financial Services

Umpqua Bank
US Bank
Wells Fargo Bank

CCWD Committees

*Engineering Committee
*Finance Committee
*Legal Affairs Committee
*External Relations Committee
Real Estate Review Committee (ad hoc)

Joint Power Authorities

ACWA / JPIA
CCWD Public Financing Authority
Calaveras-Amador Mokelumne River Authority (CAMRA)
Calaveras Public Power Agency (CPPA)
Eastern San Joaquin Groundwater Authority
Tuolumne-Stanislaus Integrated Regional Water
Management Joint Powers Authority (T-Stan JPA)
Upper Mokelumne River Watershed Authority (UMRWA)

Other Regional Organizations of Note

Calaveras County Parks and Recreation
Committee
Mountain Counties Water Resources
Association (MCWRA)
Mokelumne River Association (MRA)
Tuolumne-Stanislaus Integrated Regional Water
Mgt. Watershed Advisory Committee to the JPA (WAC)
Eastern San Joaquin Groundwater Authority-Technical
Advisory Committee

Legal Counsel

Matthew Weber, Esq.
Downey Brand, LLP

Auditor

Richardson & Company, LLP

Membership**

Thomas / Davidson (alt. Secada)
Secada / Underhill (alt. Thomas)
Ratterman / Davidson (alt. Thomas)
Thomas / Secada (alt. Underhill)
Thomas / Ratterman

Ratterman (alt. Michael Minkler)
All Board Members
Ratterman / Secada (alt. Michael Minkler)
Michael Minkler (alt. Damon Wyckoff)
Thomas
Underhill (alt. Thomas)

Davidson (alt. Ratterman)

Thomas (alt. Ratterman)

All Board Members

All Board Members
Kelly Gerkenmeyer (alt: Juan Maya)

Mark Rincon-Ibarra (alt: Sam Singh)

* Standing committees, meetings of which require agendas & public notice 72 hours in advance of meeting.

** The 1st name listed is the committee chairperson.

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MINUTES

CALAVERAS COUNTY WATER DISTRICT REGULAR BOARD MEETING

DECEMBER 11, 2024

Directors Present: Russ Thomas, President
Bertha Underhill, Vice-President
Cindy Secada, Director
Scott Ratterman, Director*
Jeff Davidson, Director

Staff Present: Michael Minkler, General Manager
Matt Weber Esq, General Counsel
Rebecca Hitchcock, Clerk to the Board
Pat Burkhardt, Construction and Maintenance Manager
Jeffrey Meyer, Director of Administrative Services
Kelly Gerkenmeyer, External Affairs Manager
Cameron Edens, Mechanic
Roy Greer, Mechanic
Joe Darby, Distribution
Billy Heinle, Distribution
Matt Jarnigan, Distribution
Jesse Hampton, Plant Operations Manager*
Kate Jesus, Human Resources Technician*
Haley Airola, Engineering Coordinator*
Dylan Smith, IS Administrator*
Quentine Smooth, IS Technician*
Robin Patolo, Customer Service*
Bana Rouson-Gedese, Water Resources Specialist*
Tiffany Burke, Operations Administrative Technician*
Kelly Soulier-Doyle, Accounting Technician*
Michael Bear, Accountant*
Kylie Muetterties, Accountant*
Mike DuBurg, Distribution*

Others Present Kara Hooks, Chandler Asset Management

ORDER OF BUSINESS

CALL TO ORDER / PLEDGE OF ALLEGIANCE

1. ROLL CALL

President Thomas called the Regular Board Meeting to order at 1:00 p.m. and led the Pledge of Allegiance.

Director Ratterman notified the Board that, in accordance with AB 2449, he is attending the meeting remotely due to the "Just Cause for illness" provision, which prevents him from attending in person.

2. PUBLIC COMMENT

There was no public comment.

3. OLD BUSINESS

- 3a [Discussion/Action regarding a Resolution of Appreciation Acknowledging Director Jeff Davidson's 25 Years of Service on the CCWD Board of Directors](#)
(Russ Thomas, Board President) **RES 2024-60**

DISCUSSION: President Thomas presented the resolution honoring Director Jeff Davidson for his 26 years of service to the district. All the Directors spoke fondly about Director Davidson's time on the Board.

PUBLIC COMMENT: There was no public comment.

MOTION: Director Ratterman/Secada Moved to approve Resolution No. 2024-60, Honoring Jeff Davidson for 25 years of service on the with CCWD Board.

AYES: Directors Ratterman, Secada, Underhill, and Thomas
NOES: None
ABSTAIN: Director Davidson
ABSENT: None

4. BOARD RECONSTITUTION AND ELECTION OF OFFICERS

- 4a Discussion/Action regarding Seating of Board Members and Election of Officers
(Michael Minkler, General Manager)

The newly re-elected Board Directors stood as Ms. Hitchcock, Clerk to the Board, administered the Oath of Office to Directors Davidson and Director Ratterman.

After the Board of Directors were seated, Mr. Minkler called for nominations for Board President for the 2025 year. Director Thomas nominated Director Underhill as President and Director Secada seconded the nomination. Director Underhill declined the nomination for Board President.

Director Secada nominated Director Davidson as President and Director Thomas seconded the nomination. There were no other nominations. Directors Ratterman and Secada closed the nominations.

MOTION: Directors Seada/Thomas-Nominate Director Davidson as Board President for the 2025 Year

PUBLIC COMMENT: There was no public comment.

AYES: Directors Secada, Thomas, Ratterman, Underhill, and Davidson
NOES: None
ABSTAIN: None
ABESNT: None

President Davidson called for nominations for Board Vice President. Director Ratterman nominated Director Secada as Board Vice President and Director Thomas seconded the motion. There were no other nominations. Directors Ratterman and Thomas closed the nominations.

MOTION: Directors Ratterman/Thomas-Nominate Director Secada as Board Vice President for the 2025 Year

PUBLIC COMMENT: There was no public comment.

AYES: Directors Underhill, Davidson, Secada, Thomas, and Ratterman
NOES: None
ABSTAIN: None
ABESNT: None

President Davidson stated that he would postpone making any committee assignments and requested the Board Members to email or phone in their committee preference to the Board Clerk who will forward the information to the Board President. Committee selections to joint powers authorities will be voted on at the January 8, 2025 meeting.

5. CONSENT AGENDA

MOTION: Directors Underhill/Secada-Approved Consent Agenda Items: 45a, 5b, 5c, and 5d as presented

- 5a Approval of the Minutes for the Board Meeting of November 13, 2024 (Rebecca Hitchcock, Clerk to the Board)
- 5b Review Board of Directors Monthly Time Sheets for November 2024 (Rebecca Hitchcock, Clerk to the Board)
- 5c Ratify Claim Summary #633 Secretarial Fund in the Amount of \$2,328,604.40 for November 2024 (Jeffrey Meyer, Director of Administrative Services) **RES 2024-61**
- 5d Report on the Monthly Investment Transactions for October 2024 (Jeffrey Meyer, Director of Administrative Services)

AYES: Directors Underhill, Secada, Ratterman, Thomas, and Davidson
NOES: None
ABSTAIN: None
ABSENT: None

6. NEW BUSINESS

- 6a [Presentation of ACWA/JPIA's Special Recognition Award for Low Loss Ratios in Property, Liability, and Worker's Compensation insurance program categories](#) (Scott Ratterman, CCWD Director and member of the ACWA/JPIA Executive Committee)

DISCUSSION: Director Ratterman announced that CCWD received Special Recognition Awards from the District's insurance carrier, Association of California Water Agencies/Joint Powers Insurance Authority (ACWA/JPIA) for having 20% lower loss ratio in property, liability and workers

compensation programs. He also gave appreciation to staff for their efforts for a safe working environment that resulted in receiving these awards.

PUBLIC COMMENT: There was no public comment.

This item was for information only; no action was taken.

- 6b [Presentation of ACWA/JPIA's H.R. Labounty Safety Award to CCWD's Cameron Edens, Roy Greer, Joe Darby, Billy Heinle, and Matt Jarnigan](#)
(Pat Burkhardt, Construction and Maintenance Manager)

DISCUSSION: Pat Burkhardt presented Cameron Edens, Roy Greer, Joe Darby, Billy Heinle, and Matt Jernigan with the ACWA JPIA H.R. LaBounty Safety Award and \$100.00 award check. He explained that this team won the award for a safety solution of custom-built lockable Hydrant Caps to prevent theft or unauthorized usage.

PUBLIC COMMENT: There was no public comment.

- 6c [Discussion/Action Supporting the Grant Application to Implement a Regional Water and Wastewater Apprenticeship Program with California Jobs First – Sierra Region Catalyst Fund](#)
(Kelly Gerkenmeyer, External Affairs Manager)

DISCUSSION: Kelly Gerkenmeyer gave an update to the Board regarding the progress of the apprenticeship program grant for the district and other agencies. He responded to questions from the Committee.

PUBLIC COMMENT: There was no public comment.

- 6d [Presentation of District Investments and Strategies by Chandler Asset Management](#)
(Jeffrey Meyer, Director of Administrative Services)

DISCUSSION: Kara Hooks from Chandler Asset Management gave an economic update and a thorough review of the District's investment portfolio. She responded to questions from the Board.

PUBLIC COMMENT: There was no public comment.

7. **REPORTS**

- 7a [November 2024 Operations Department Report](#)
(Pat Burkhardt, Construction and Maintenance Manager)

DISCUSSION: Pat Burkhardt presented the November 2024 Monthly Operations report. He reviewed items of interest and answered questions from the Board.

PUBLIC COMMENT: There was no public comment.

- 7b [Customer Service Report](#)
(Kelly Richards, Business Services Manager)

DISCUSSION: Kelly Richards presented an update on the Customer Service Department. She reviewed items of interest and answered questions from the Board.

PUBLIC COMMENT: There was no public comment.

7c [General Manager's Report](#)
(Michael Minkler)

Mr. Minkler reported on the following activities: 1) the Washington D.C. trip and the meetings attended; 2) the increased authorization of the Water Resources Development Act; 3) spoke highly of how effective the advocacy of Mia O'Connell has been; 4) the Bio-Mass project in West Point has finally received final approval from USDA; 5) the Nation Hydropower Regional meeting in Redding; 6) a Calaveras Watershed planning meeting; 7) Damon Wyckoff has been appointed as the Vice Chair of the ACWA Energy Committee; 8) acknowledged staff for the phenomenal job on the Tyler implementation; 9) the Finance Committee meeting next week; 10) budget preparation has begun for the 2025/26 Budget; 11) a Groundwater Sustainability Plan update at a Board meeting in January; and 12) the CCWD Holiday party.

8. [BOARD REPORTS / INFORMATION / FUTURE AGENDA ITEMS](#)

Director Thomas provided a report on the Washington D.C. trip and highlighted the exceptional work of Mia O'Connell from O'Connell & Demsey.

Director Underhill had nothing to report.

Director Secada reported on the progress of the West Point Park project.

Director Ratterman reported on the Washington, D.C. trip, the MCWRA Water Forum, and the CCWD Holiday party.

Director Davidson thanked everyone for the 25 Year Anniversary celebration.

9. [NEXT BOARD MEETINGS](#)

- Cancelled-Wednesday, December 25, 2024
- Wednesday, January 8, 2025, 1:00 p.m., Regular Board Meeting

10. [CLOSED SESSION](#)

The meeting adjourned into the Closed Session at approximately 3:27 p.m. Those present were Board Members: Scott Ratterman, Cindy Secada, Bertha Underhill, Russ Thomas, and Jeff Davidson; staff members Michael Minkler, General Manager; Kelly Gerkenmeyer, External Affairs Manager; and Pat Burkhardt, Construction and Maintenance Manager; and General Counsel Matt Weber.

- 10a Conference with Legal Counsel – Anticipated Litigation. Significant exposure to litigation pursuant to subdivision (d)(2) of Government Code section 54956.9 - three potential cases

11. [REPORTABLE ACTION FROM CLOSED SESSION](#)

The Board reconvened into Open Session at approximately 4:17 p.m. There was no reportable action.

12. ADJOURNMENT

With no further business, the meeting adjourned at approximately 4:17 p.m.

By:

ATTEST:

Michael Minkler
General Manager

Rebecca Hitchcock
Clerk to the Board

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Agenda Item

DATE: January 8, 2025

TO: Michael Minkler, General Manager

FROM: Rebecca Hitchcock, Clerk to the Board

SUBJECT: Review Board of Directors Time Sheets for December 2024

RECOMMENDED ACTION:

For information only.

SUMMARY:

Pursuant to direction from the Board of Directors, copies of the Board's monthly time sheets, which the Board is compensated from, are included in the monthly agenda package for information. Attached are copies of the Board's time sheets for the month of December 2024.

Board Members can be reimbursed for mileage cost to travel to meetings/conferences and are paid at the current IRS rate.

FINANCIAL CONSIDERATIONS:

Monthly compensation and mileage reimbursement costs are included in the FY 24-25 budget.

STRATEGIC PLAN INITIATIVES:

FR-08 Communicate the District's fiscal obligations and accountability to our customers through transparency and effective public outreach.

Attachments: Board of Directors Time Sheets for December 2024

**CALAVERAS COUNTY WATER DISTRICT
2023 DIRECTOR REIMBURSEMENT FORM**

For Admin Use	Payroll Expense
---------------	-----------------

Month/Yr Dec-24
Name Cindy Secada

Activity Date	Meeting or Other Expense Description	Designated Rep.		Association List		Prior Approval		Cost		Total	
		Yes	No	Yes	No	Yes	No	Meeting	Expense		
11-Dec	CCWD Regular Meeting							120		38.7	
17-Dec	CCWD Finance Committee	X						120		38.7	
Total	<i>For Totals line, multiply miles by the IRS rate:</i>	1/1/2023	\$0.670						0	77.4	
<i>Pursuant to Board Policy 4030, receipts required; report /materials required.</i>							Totals (use IRS mileage rate)		\$240.00	\$0.00	\$51.86
<p>The undersigned, under penalty of perjury states: This claim and the items set forth herein are true and correct; that expenses incurred, meetings attended and business conducted are necessary to District affairs; that this claim is proper and within the scope of California Water Code Section 20200 et seq, and District Ordinance 2015-02; that the service was actually rendered; and that the amount(s) herein are justly true.</p>							<p>Signature of Claimant: <i>Cindy Secada</i></p>				
Administrative Review: <u><i>[Signature]</i></u>							Date: _____		Orig to Finance Dept.		

**CALAVERAS COUNTY WATER DISTRICT
2024 DIRECTOR REIMBURSEMENT FORM**

For Admin Use	Payroll <input type="radio"/>	Expense <input checked="" type="radio"/>
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Month/Yr Dec-24
Name Bertha Underhill

Activity Date	Meeting or Other Expense Description	Designated Rep.		Association List		Prior Approval		Cost		Total Miles
		Yes	No	Yes	No	Yes	No	Meeting	Expense	
11-Dec	CCWD Regular Board Meeting							120		64
17-Dec	CCWD Finance Committee Meeting	X						120		64
Total	<i>For Totals line, multiply miles by the IRS rate:</i>	1/1/2024	\$0.670						0	128
<i>Pursuant to Board Policy 4030, receipts required; report /materials required.</i>				Totals (use IRS mileage rate)				\$240.00	\$0.00	\$85.76
<p>The undersigned, under penalty of perjury states: This claim and the items set forth herein are true and correct; that expenses incurred, meetings attended and business conducted are necessary to District affairs; that this claim is proper and within the scope of California Water Code Section 20200 et seq, and District Ordinance 2015-02; that the service was actually rendered; and that the amount(s) herein are justly true.</p>						<p>Signature of Claimant: Bertha Underhill</p>				
Administrative Review: <u><i>[Signature]</i></u>						Date: <u>12/20/24</u>		Orig to Finance Dept.		

**CALAVERAS COUNTY WATER DISTRICT
2024 DIRECTOR REIMBURSEMENT FORM**

For Admin Use	Payroll <input checked="" type="checkbox"/>
	Expense <input type="checkbox"/>

Month/Yr Dec-24
Name Russ Thomas

Activity Date	Meeting or Other Expense Description	Designated Rep.		Association List		Prior Approval		Cost		Total Miles
		Yes	No	Yes	No	Yes	No	Meeting	Expense	
26-Nov	Teams meeting w/ Maria Kim of OMB							120		0
3-Dec	Fall ACWA Conference							120		0
4-Dec	Fall ACWA Conference							120		0
5-Dec	Fall ACWA Conference							120		0
	Round Trip Mileage to ACWA Conference									962
11-Dec	CCWD Regular Meeting							120		44
19-Dec	Real Estate Ad hoc committee							120		44

Total	<i>For Totals line, multiply miles by the IRS rate:</i> 1/1/2024 \$0.670								0	1050
<i>Pursuant to Board Policy 4030, receipts required; report /materials required.</i>							Totals (use IRS mileage rate)	\$720.00	\$0.00	\$703.50

The undersigned, under penalty of perjury states: This claim and the items set forth herein are true and correct; that expenses incurred, meetings attended and business conducted are necessary to District affairs; that this claim is proper and within the scope of California Water Code Section 20200 et seq, and DISTRICT Ordinance 2015-02; that the service was actually rendered; and that the amount(s) herein are justly true.

Signature of Claimant:
Russ Thomas

Administrative Review: *[Signature]* Date: 12/20/24 Orig to Finance Dept.

**CALAVERAS COUNTY WATER DISTRICT
2024 DIRECTOR REIMBURSEMENT FORM**

For Admin Use	Payroll <input type="radio"/>
	Expense <input checked="" type="radio"/>

Month/Yr Dec-24
Name Jeff Davidson

Activity Date	Meeting or Other Expense Description	Designated Rep.		Association List		Prior Approval		Cost		Total Miles	
		Yes	No	Yes	No	Yes	No	Meeting	Expense		
11-Dec	CCWD Regular Board Meeting							120		28	
Total	<i>For Totals line, multiply miles by the IRS rate:</i>	1/1/2024	\$0.670						0	28	
<i>Pursuant to Board Policy 4030, receipts required; report /materials required.</i>				Totals (use IRS mileage rate)				\$120.00	\$0.00	\$18.76	
<p>The undersigned, under penalty of perjury states: This claim and the items set forth herein are true and correct; that expenses incurred, meetings attended and business conducted are necessary to District affairs; that this claim is proper and within the scope of California Water Code Section 20200 et seq, and District Ordinance 2015-02; that the service was actually rendered; and that the amount(s) herein are justly true.</p>							<p>Signature of Claimant:</p> <p style="text-align: center;"><i>Jeff Davidson</i></p>				
Administrative Review: <u><i>[Signature]</i></u>							Date: <u>12/20/24</u>		Orig to Finance Dept.		

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Agenda Item

DATE: January 8, 2025
TO: Board of Directors
FROM: Rebecca Hitchcock, Clerk to the Board
SUBJECT: Accepting Canvass and Certified Statement of Results
of the November 5, 2024 General Election

RECOMMENDED ACTION:

Motion: _____ / _____ adopt Resolution No. 2025-____ accepting the County's Canvass and Certified Statement of Results of the General Election of November 5, 2024.

SUMMARY:

In accordance with State code mandates, the County Clerk has certified the official canvass of votes of the November 5, 2024 election.

Under Election Code Section 15400, the District's Board of Directors must take action to accept the County's Canvass and Certified Statement of Results of the General Election held November 5, 2024.

Re-elected Board Members, Scott Ratterman, Director of District 1 and Jeff Davidson, Director of District 5 officially took their oath of office at 1:15 p.m. on Wednesday, December 11, 2024, during the Board Meeting, to serve their next 4-year terms.

FISCAL CONSIDERATION:

None.

Attachment: *Resolution No. 2025-__ Accepting the Canvass of the General Election Held on November 5, 2024
Canvass of Election Returns*

RESOLUTION NO. 2025-

**A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE CALAVERAS COUNTY WATER DISTRICT**

**ACCEPTING THE CANVASS OF THE GENERAL ELECTION
HELD ON NOVEMBER 5, 2024
PURSUANT TO DIVISION 15 CHAPTER 4 OF THE ELECTIONS CODE**

WHEREAS, the election results for the General Election, held on November 5, 2024, have been presented to the Board of Directors of the Calaveras County Water District by the County Clerk, following the canvass of said election.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the CALAVERAS COUNTY WATER DISTRICT of the County of Calaveras hereby accepts the canvass of the returns of the General Election, held on November 5, 2024, as delineated in Exhibit "A", attached hereto, and made a part hereof.

PASSED AND ADOPTED on this 8th day of January 2025 by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

CALAVERAS COUNTY WATER DISTRICT

Jeff Davidson, President
Board of Directors

ATTEST:

Rebecca Hitchcock
Clerk to the Board

**HELP AMERICA VOTE ACT OF 2002
CERTIFICATION OF ELECTIONS OFFICIAL**

STATE OF CALIFORNIA

COUNTY OF CALAVERAS



ss.

Pursuant to the statewide voter registration list requirements set forth in the Help America Vote Act of 2002 (HAVA) 52 U.S.C. § 21083),

I, Rebecca Turner, County Clerk/Registrar of Voters for the County of Calaveras, State of California, hereby certify that I complied with all provisions of Chapter 2 of Division 7 of Title 2 of the California Code of Regulations for the Federal election held on the 5th day of November 2024, in the County of Calaveras, State of California and all elections consolidated therewith.

I hereby set my hand and official seal this 3rd day of December, 2024, at the County of Calaveras.



County Clerk/Registrar of Voters
County of Calaveras
State of California

HAVA Certification of Elections Official
(11/2024)

**CERTIFICATION OF
COUNTY CLERK/REGISTRAR OF VOTERS OF THE
RESULTS OF THE CANVASS
OF THE NOVEMBER 5, 2024,
GENERAL ELECTION**

STATE OF CALIFORNIA

COUNTY OF CALAVERAS



ss.

I, Rebecca Turner, County Clerk/Registrar of Voters of County of Calaveras, do hereby certify that, in pursuance of the provisions of Elections Code section 15300, et seq., I did canvass the results of the votes cast in the General Election held in said County on November 5, 2024, for measures and contests that were submitted to the vote of the voters, and that the Statement of Votes Cast, to which this certificate is attached is full, true, and correct.

I hereby set my hand and official seal this 3rd day of December, 2024, at the County of Calaveras.



County Clerk/Registrar of Voters
County of Calaveras
State of California

Cumulative Results Report

Calaveras County

Official Results

General Election - November 5, 2024

Registered Voters

26885 of 33053 = 81.34%

Precincts Reporting

25 of 25 = 100.00%

Run Time 10:26 AM

11/5/2024

Run Date 12/03/2024

Page 1

PRESIDENT AND VICE PRESIDENT - Vote for ONE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
DONALD J. TRUMP	REP	3,694	81.67%	12,927	58.89%	4	66.67%	16,625	62.78%
CLAUDIA DE LA CRUZ	PF	6	0.13%	49	0.22%	0	0.00%	55	0.21%
KAMALA D. HARRIS	DEM	762	16.85%	8,417	38.34%	2	33.33%	9,181	34.67%
ROBERT F. KENNEDY JR.	AI	36	0.80%	353	1.61%	0	0.00%	389	1.47%
CHASE OLIVER	LIB	13	0.29%	108	0.49%	0	0.00%	121	0.46%
JILL STEIN	GRN	12	0.27%	96	0.44%	0	0.00%	108	0.41%
PETER SONSKI (W)		0	0.00%	1	0.00%	0	0.00%	1	0.00%
Cast Votes:		4,523	100.00%	21,951	100.00%	6	100.00%	26,480	100.00%
Undervotes:		34		360		0		394	
Overvotes:		4		7		0		11	

UNITED STATES SENATOR Full Term - Vote for ONE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
STEVE GARVEY	REP	3,612	82.39%	13,494	62.25%	3	60.00%	17,109	65.64%
ADAM B. SCHIFF	DEM	772	17.61%	8,182	37.75%	2	40.00%	8,956	34.36%
Cast Votes:		4,384	100.00%	21,676	100.00%	5	100.00%	26,065	100.00%
Undervotes:		176		640		1		817	
Overvotes:		1		2		0		3	

Cumulative Results Report

Calaveras County

Official Results

General Election - November 5, 2024

Registered Voters

26885 of 33053 = 81.34%

Precincts Reporting

25 of 25 = 100.00%

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UNITED STATES SENATOR Partial Term - Vote for ONE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
STEVE GARVEY	REP	3,563	82.31%	13,275	62.40%	3	60.00%	16,841	65.77%
ADAM B. SCHIFF	DEM	766	17.69%	7,998	37.60%	2	40.00%	8,766	34.23%
Cast Votes:		4,329	100.00%	21,273	100.00%	5	100.00%	25,607	100.00%
Undervotes:		231		1,045		1		1,277	
Overvotes:		1		0		0		1	

UNITED STATES REPRESENTATIVE, DISTRICT 5 - Vote for ONE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
TOM MCCLINTOCK	REP	3,564	82.06%	13,484	62.82%	3	60.00%	17,051	66.06%
MICHAEL J. "MIKE" BARKLEY	DEM	779	17.94%	7,980	37.18%	2	40.00%	8,761	33.94%
Cast Votes:		4,343	100.00%	21,464	100.00%	5	100.00%	25,812	100.00%
Undervotes:		217		854		1		1,072	
Overvotes:		1		0		0		1	

MEMBER OF THE STATE ASSEMBLY, DISTRICT 8 - Vote for ONE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
19	19	100.00%	18,164	22,202	81.81%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
GEORGE RADANOVICH	REP	1,511	61.32%	6,434	54.61%	1	50.00%	7,946	55.77%
DAVID J. TANGIPA	REP	953	38.68%	5,347	45.39%	1	50.00%	6,301	44.23%
Cast Votes:		2,464	100.00%	11,781	100.00%	2	100.00%	14,247	100.00%
Undervotes:		489		3,426		1		3,916	
Overvotes:		1		0		0		1	

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MEMBER OF THE STATE ASSEMBLY, DISTRICT 9 - Vote for ONE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
6	6	100.00%	8,721	10,851	80.37%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
TAMI NOBRIGA	AI	197	13.27%	1,687	25.97%	2	66.67%	1,886	23.62%
HEATH FLORA	REP	1,288	86.73%	4,810	74.03%	1	33.33%	6,099	76.38%
Cast Votes:		1,485	100.00%	6,497	100.00%	3	100.00%	7,985	100.00%
Undervotes:		122		613		0		735	
Overvotes:		0		1		0		1	

BRET HARTE UNION HIGH SCHOOL DISTRICT Governing Board Member - Vote for THREE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
13	13	100.00%	11,872	14,374	82.59%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
JASON A. LEWIS		710	25.40%	4,508	22.94%	1	33.33%	5,219	23.25%
TITIA C. ASHBY		514	18.39%	3,405	17.33%	0	0.00%	3,919	17.46%
SHEILA KR PAN		764	27.33%	5,703	29.02%	1	33.33%	6,468	28.81%
KELLIE SENN		807	28.87%	6,036	30.71%	1	33.33%	6,844	30.49%
Cast Votes:		2,795	100.00%	19,652	100.00%	3	100.00%	22,450	100.00%
Undervotes:		2,008		11,137		0		13,145	
Overvotes:		4		3		0		7	

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MARK TWAIN UNION ELEMENTARY SCHOOL DISTRICT Governing Board Member - Vote for THREE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
9	9	100.00%	6,067	7,426	81.70%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
BRAD MICHAEL LEHMAN		435	20.68%	1,968	18.56%	0	0.00%	2,403	18.91%
JENNIFER ELTRINGHAM		398	18.93%	2,094	19.75%	0	0.00%	2,492	19.61%
CHRISTY MIRO		429	20.40%	2,206	20.81%	0	0.00%	2,635	20.74%
MEGAN "SHORTIE" GUTIERREZ		378	17.97%	1,788	16.86%	0	0.00%	2,166	17.05%
CORA BROGLIO		463	22.02%	2,546	24.01%	0	0.00%	3,009	23.68%
Cast Votes:		2,103	100.00%	10,602	100.00%	0	0.00%	12,705	100.00%
Undervotes:		1,038		4,455		0		5,493	
Overvotes:		0		1		0		1	

VALLECITO UNION ELEMENTARY SCHOOL DISTRICT Governing Board Member-Short Term - Vote for ONE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
7	7	100.00%	5,805	6,948	83.55%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
KATHRYN EUSTIS		161	37.01%	1,995	50.18%	0	0.00%	2,156	48.87%
JODI SLEDGE		274	62.99%	1,981	49.82%	1	100.00%	2,256	51.13%
Cast Votes:		435	100.00%	3,976	100.00%	1	100.00%	4,412	100.00%
Undervotes:		121		1,270		0		1,391	
Overvotes:		2		0		0		2	

SUPERVISOR, DISTRICT 1 - Vote for ONE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
5	5	100.00%	4,915	6,121	80.30%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
GARY N. TOFANELLI		425	47.43%	1,877	53.60%	0	0.00%	2,302	52.34%
TIM GRANT		471	52.57%	1,625	46.40%	0	0.00%	2,096	47.66%
Cast Votes:		896	100.00%	3,502	100.00%	0	0.00%	4,398	100.00%
Undervotes:		119		397		1		517	
Overvotes:		0		0		0		0	

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SUPERVISOR, DISTRICT 2 - Vote for ONE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
4	4	100.00%	5,256	6,489	81.00%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
AUTUMN ANDAHL		520	54.17%	2,005	50.33%	0	0.00%	2,525	51.07%
TREVOR WITTKÉ		440	45.83%	1,979	49.67%	0	0.00%	2,419	48.93%
Cast Votes:		960	100.00%	3,984	100.00%	0	0.00%	4,944	100.00%
Undervotes:		77		235		0		312	
Overvotes:		0		0		0		0	

ANGELS CAMP CITY COUNCIL Member of City Council - Vote for THREE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
2	2	100.00%	2,112	2,591	81.51%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
MICHAEL FISH		171	22.27%	598	15.47%	0	0.00%	769	16.60%
MICHAEL S. CHIMENTE		195	25.39%	986	25.51%	0	0.00%	1,181	25.49%
SCOTT BEHIEL		156	20.31%	859	22.23%	0	0.00%	1,015	21.91%
MARY F. KELLY		126	16.41%	701	18.14%	0	0.00%	827	17.85%
CAROLINE SCHIRATO		120	15.63%	721	18.65%	0	0.00%	841	18.15%
Cast Votes:		768	100.00%	3,865	100.00%	0	0.00%	4,633	100.00%
Undervotes:		339		1,355		0		1,694	
Overvotes:		2		1		0		3	

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CIRCLE XX COMMUNITY SERVICES Director - Vote for TWO

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
2	2	100.00%	166	213	77.93%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
RANDY LOPEZ		14	26.42%	49	21.21%	0	0.00%	63	22.18%
SHELLY DAVIS		6	11.32%	42	18.18%	0	0.00%	48	16.90%
DEBORAH HILL		12	22.64%	28	12.12%	0	0.00%	40	14.08%
PATSY BOURASSA		14	26.42%	63	27.27%	0	0.00%	77	27.11%
MERRY L. STUBBINS		7	13.21%	49	21.21%	0	0.00%	56	19.72%
Cast Votes:		53	100.00%	231	100.00%	0	0.00%	284	100.00%
Undervotes:		13		33		0		46	
Overvotes:		0		1		0		1	

COPPEROPOLIS FIRE PROTECTION Director - Vote for THREE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
6	6	100.00%	3,460	4,272	80.99%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
STEVEN JAMES MARKS		331	28.39%	1,582	25.71%	0	0.00%	1,913	26.13%
JOHNNY MANESS		345	29.59%	1,757	28.55%	0	0.00%	2,102	28.72%
RICHARD "DICK" MCCARTY		285	24.44%	1,578	25.64%	0	0.00%	1,863	25.45%
KATHY NORTINGTON		205	17.58%	1,237	20.10%	0	0.00%	1,442	19.70%
Cast Votes:		1,166	100.00%	6,154	100.00%	0	0.00%	7,320	100.00%
Undervotes:		637		2,420		0		3,057	
Overvotes:		0		1		0		1	

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SAN ANDREAS RECREATION & PARK Director - Vote for TWO

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
3	3	100.00%	2,047	2,593	78.94%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
JARED DEVICH		192	38.71%	954	43.36%	0	0.00%	1,146	42.51%
SHERRY CLARY		145	29.23%	685	31.14%	0	0.00%	830	30.79%
MICHAEL BAYHA		159	32.06%	561	25.50%	0	0.00%	720	26.71%
Cast Votes:		496	100.00%	2,200	100.00%	0	0.00%	2,696	100.00%
Undervotes:		304		1,092		0		1,396	
Overvotes:		0		1		0		1	

EBBETTS PASS VETERANS MEMORIAL Director-Full Term - Vote for THREE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
6	6	100.00%	5,333	6,356	83.90%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
THOMAS EISING		219	26.42%	2,614	28.65%	1	33.33%	2,834	28.47%
EARL E HEINLEIN JR		153	18.46%	1,884	20.65%	1	33.33%	2,038	20.47%
CHARLES VINCENT PALMER		156	18.82%	1,722	18.87%	0	0.00%	1,878	18.86%
MICHAEL BOREAN		301	36.31%	2,904	31.83%	1	33.33%	3,206	32.20%
Cast Votes:		829	100.00%	9,124	100.00%	3	100.00%	9,956	100.00%
Undervotes:		614		5,426		0		6,040	
Overvotes:		1		0		0		1	

EBBETTS PASS VETERANS MEMORIAL Director-Short Term - Vote for TWO

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
6	6	100.00%	5,333	6,356	83.90%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
NOAH GLANVILLE		224	38.62%	2,399	39.21%	1	50.00%	2,624	39.16%
DON PADOU		152	26.21%	1,937	31.66%	1	50.00%	2,090	31.19%
GARY E. SUMMERSETT		204	35.17%	1,783	29.14%	0	0.00%	1,987	29.65%
Cast Votes:		580	100.00%	6,119	100.00%	2	100.00%	6,701	100.00%
Undervotes:		382		3,577		0		3,959	
Overvotes:		1		2		0		3	

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CALAVERAS COUNTY WATER Director, Division 5 - Vote for ONE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
6	6	100.00%	6,029	7,551	79.84%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
JEFF DAVIDSON		584	58.52%	2,512	58.36%	0	0.00%	3,096	58.38%
PATRICK EARLE ROY		414	41.48%	1,792	41.64%	1	100.00%	2,207	41.62%
Cast Votes:		998	100.00%	4,304	100.00%	1	100.00%	5,303	100.00%
Undervotes:		134		590		1		725	
Overvotes:		1		0		0		1	

PROPOSITION 2

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
Yes		1,510	35.18%	9,242	43.61%	3	60.00%	10,755	42.20%
No		2,782	64.82%	11,948	56.39%	2	40.00%	14,732	57.80%
Cast Votes:		4,292	100.00%	21,190	100.00%	5	100.00%	25,487	100.00%
Undervotes:		266		1,127		1		1,394	
Overvotes:		3		1		0		4	

PROPOSITION 3

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
Yes		1,359	31.60%	10,068	47.63%	2	40.00%	11,429	44.92%
No		2,941	68.40%	11,070	52.37%	3	60.00%	14,014	55.08%
Cast Votes:		4,300	100.00%	21,138	100.00%	5	100.00%	25,443	100.00%
Undervotes:		257		1,177		1		1,435	
Overvotes:		4		3		0		7	

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26885 of 33053 = 81.34%

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25 of 25 = 100.00%

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PROPOSITION 4

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
Yes		1,452	33.77%	8,957	42.11%	2	40.00%	10,411	40.71%
No		2,848	66.23%	12,313	57.89%	3	60.00%	15,164	59.29%
Cast Votes:		4,300	100.00%	21,270	100.00%	5	100.00%	25,575	100.00%
Undervotes:		257		1,046		1		1,304	
Overvotes:		4		2		0		6	

PROPOSITION 5

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
Yes		911	21.35%	5,984	28.38%	1	25.00%	6,896	27.20%
No		3,355	78.65%	15,103	71.62%	3	75.00%	18,461	72.80%
Cast Votes:		4,266	100.00%	21,087	100.00%	4	100.00%	25,357	100.00%
Undervotes:		291		1,230		2		1,523	
Overvotes:		4		1		0		5	

PROPOSITION 6

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
Yes		905	21.47%	6,225	29.95%	3	50.00%	7,133	28.53%
No		3,310	78.53%	14,560	70.05%	3	50.00%	17,873	71.47%
Cast Votes:		4,215	100.00%	20,785	100.00%	6	100.00%	25,006	100.00%
Undervotes:		341		1,530		0		1,871	
Overvotes:		5		3		0		8	

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PROPOSITION 32

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
Yes		976	22.60%	6,413	30.28%	3	50.00%	7,392	28.98%
No		3,342	77.40%	14,768	69.72%	3	50.00%	18,113	71.02%
Cast Votes:		4,318	100.00%	21,181	100.00%	6	100.00%	25,505	100.00%
Undervotes:		242		1,137		0		1,379	
Overvotes:		1		0		0		1	

PROPOSITION 33

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
Yes		859	20.24%	5,110	24.49%	1	16.67%	5,970	23.77%
No		3,385	79.76%	15,753	75.51%	5	83.33%	19,143	76.23%
Cast Votes:		4,244	100.00%	20,863	100.00%	6	100.00%	25,113	100.00%
Undervotes:		312		1,450		0		1,762	
Overvotes:		5		5		0		10	

PROPOSITION 34

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
Yes		2,213	53.31%	10,275	50.42%	2	40.00%	12,490	50.91%
No		1,938	46.69%	10,103	49.58%	3	60.00%	12,044	49.09%
Cast Votes:		4,151	100.00%	20,378	100.00%	5	100.00%	24,534	100.00%
Undervotes:		403		1,938		1		2,342	
Overvotes:		7		2		0		9	

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PROPOSITION 35

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
Yes		2,043	48.52%	13,071	62.42%	5	83.33%	15,119	60.10%
No		2,168	51.48%	7,868	37.58%	1	16.67%	10,037	39.90%
Cast Votes:		4,211	100.00%	20,939	100.00%	6	100.00%	25,156	100.00%
Undervotes:		339		1,377		0		1,716	
Overvotes:		11		2		0		13	

PROPOSITION 36

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
Yes		3,284	76.62%	16,266	76.99%	3	50.00%	19,553	76.92%
No		1,002	23.38%	4,861	23.01%	3	50.00%	5,866	23.08%
Cast Votes:		4,286	100.00%	21,127	100.00%	6	100.00%	25,419	100.00%
Undervotes:		270		1,189		0		1,459	
Overvotes:		5		2		0		7	

MEASURE C RENEWAL OF ABANDONED VEHICLE ABATEMENT (AVA) PROGRAM AND FEE

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
25	25	100.00%	26,885	33,053	81.34%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
Yes		2,566	60.79%	15,485	73.53%	3	50.00%	18,054	71.40%
No		1,655	39.21%	5,573	26.47%	3	50.00%	7,231	28.60%
Cast Votes:		4,221	100.00%	21,058	100.00%	6	100.00%	25,285	100.00%
Undervotes:		338		1,257		0		1,595	
Overvotes:		2		3		0		5	

Cumulative Results Report

Calaveras County

Official Results

General Election - November 5, 2024

Registered Voters
26885 of 33053 = 81.34%

Precincts Reporting
25 of 25 = 100.00%

Run Time 10:26 AM
Run Date 12/03/2024

11/5/2024
Page 12

MEASURE D COPPEROPOLIS FIRE PROTECTION

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
6	6	100.00%	3,460	4,272	80.99%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
Yes		439	77.15%	2,207	81.59%	0	0.00%	2,646	80.82%
No		130	22.85%	498	18.41%	0	0.00%	628	19.18%
Cast Votes:		569	100.00%	2,705	100.00%	0	0.00%	3,274	100.00%
Undervotes:		32		154		0		186	
Overvotes:		0		0		0		0	

MEASURE E MIDDLE RIVER COMMUNITY SERVICES

Precincts			Voters		
Counted	Total	Percent	Ballots	Registered	Percent
1	1	100.00%	68	91	74.73%

Choice	Party	In-Person		Vote by Mail		Provisional		Total	
Yes		4	100.00%	41	67.21%	0	0.00%	45	69.23%
No		0	0.00%	20	32.79%	0	0.00%	20	30.77%
Cast Votes:		4	100.00%	61	100.00%	0	0.00%	65	100.00%
Undervotes:		0		3		0		3	
Overvotes:		0		0		0		0	

*** End of report ***

4a



A G E N D A
I T E M

4a

Agenda Item

DATE: January 8, 2025

TO: Board of Directors

FROM: Michael Minkler, General Manager

SUBJECT: Discussion/Action regarding Approval of a sole-sourced contract with HDR for relicensing activities associated with CCWD's North Fork Stanislaus River Hydroelectric Project

RECOMMENDED ACTION:

Motion: _____ / _____ by Minute Entry Authorizing the General Manager to execute a professional services agreement with HDR for relicensing services as described in the attached scope of work.

SUMMARY:

CCWD developed the North Fork Stanislaus Hydroelectric Project over several decades leading to the successful construction of the Project from 1985-1989. The main project features include:

- **The North Fork Diversion Dam and Tunnel:** a small reservoir on the North Fork Stanislaus River that serves as a tunnel intake. The two mile, 12 foot diameter tunnel diverts water from the North Fork Stanislaus to New Spicer Meadow Reservoir.
- **New Spicer Meadow Reservoir and Powerhouse:** The main water storage facility of the Project, Spicer has a capacity of 189,000 acre-feet at an elevation of 6,621 feet. The powerhouse at the base of the dam can generate up to 5.7 MW.
- **Beaver Creek Diversion Dam and Penstock:** A small reservoir on Beaver Creek that diverts water into a penstock that leads to McKays Reservoir. The penstock was designed to accommodate a small power generation facility but the cost was prohibitive, so it serves only as a water diversion.
- **McKays Point Reservoir:** A 2,065 acre-foot reservoir at 3,387 feet in elevation on the North Fork Stanislaus that serves as the intake for the Collierville Tunnel.
- **The Collierville Tunnel:** An 8-mile long, 18 foot diameter high pressure tunnel that is the primary source of water for the communities along Hwy 4 from Angels Camp to Camp Connell.
- **The Mill Creek Tunnel Tap:** The point of diversion for water from the Collierville Tunnel. The water is used by customers of CCWD, Snowshoe Springs HOA, Blue Lake Springs Mutual Water Company, Union Public Utilities District, Utica Water and Power Authority, and the City of Angels Camp.

- **The Collierville Powerhouse:** A 253 MW powerhouse that averages over 500 Gigawatt hours of renewable energy production annually – enough to power nearly 80,000 homes.

CCWD's North Fork Project is regulated by the Federal Energy Regulatory Commission (FERC). FERC issued license number 2409 to CCWD in February of 1982. CCWD's FERC License is a 50-year license that expires in February of 2032. The license includes mandates for environmental mitigations, operating parameters, water flow and temperature requirements, and the construction of certain recreation facilities, among other things.

Relicensing a hydropower project is a massive undertaking. The process requires in-depth consultation with local tribes, state and federal regulatory agencies, environmental organizations, communities near the project, and other interested parties. Various studies will be required to evaluate environmental, recreational, and economic concerns and new facilities or different operating parameters could be imposed in the new license. New license conditions can have a significant impact on the operations and economic value of a project.

The first major milestone in the relicensing process is the filing of a Notice of Intent (NOI) to relicense and a Preliminary Application Document (PAD). For CCWD's North Fork Project, the NOI and PAD must be filed between August 2026 and February 2027. The NOI simply informs FERC and other interested parties that the licensee intends to seek a new license. The PAD will include detailed descriptions of the Project's features and resource impacts, the operations and compliance history of the Project over the current license term, and any proposed physical and operational changes to the Project. The PAD is an important document that sets the stage for relicensing.

CCWD has been working with John Devine to prepare for relicensing for over a year. John is an independent consultant with high-level experience and he has provided invaluable support and strategic advice that has significantly advanced CCWD's readiness for relicensing. CCWD has also received support and insight from Steve Felte, former CCWD GM from 1975-1996, who led the development of the North Fork Project and then led Tri-Dam through relicensing after leaving CCWD.

In order to adequately prepare for the development of a PAD, CCWD must continue to increase the resources that are dedicated to the relicensing effort, including additional assistance from consultants. CCWD has been in talks with Jim Lynch and Chuck Vertucci from HDR, one of the few firms with a team dedicated to hydropower relicensing. Jim Lynch has a long history with the North Fork Project, having moved to California to serve as the environmental manager for the construction of the Project from 1984-1990. Jim then stayed after construction to oversee environmental compliance during startup and early operations from 1990 to 1995. Mr. Lynch has worked on relicensing more than 25 projects in California for HDR since 2000 and has worked closely with Chuck Vertucci for the last 15 years.

Due to Mr. Lynch's experience with the North Fork Project and his reputation for a cost-conscious and successful approach to relicensing, CCWD asked HDR to prepare a scope of work for critical early licensing activities. CCWD also asked HDR to coordinate with Randy Bowersox, who served as the North Fork Project's manager for over 12 years before he transitioned to Vice President and Director of Operations for Water, Energy, and Environment at Gannett Fleming. Mr. Bowersox and several members of his team are local residents with deep knowledge of the operations and regulatory compliance of the North Fork Project. Gannett Fleming will be a sub-contractor to HDR under the proposed scope of work and will enhance the team's ability to complete tasks thoroughly and efficiently.

The unique combination of broad industry experience coupled with in-depth knowledge of the North Fork Project makes this the ideal consulting team for CCWD at this time. For that reason, CCWD did not seek proposals from other firms as they would not be comparable. Staff recommend Board authorization for the General Manager to execute an agreement with HDR for the attached scope of work.

Relicensing the North Fork Project is among CCWD's highest priorities. The work of relicensing has already begun, but the time has come to increase CCWD's relicensing efforts. Completing the tasks identified in HDR's scope of work will position CCWD for a successful relicensing process.

STRATEGIC PLAN INITIATIVES:

PI-01: Leverage hydropower projects to benefit the near- and long-term priorities for the District and its stakeholders.

FINANCIAL CONSIDERATIONS:

The cost estimate for the proposed scope of work is \$89,730. The current budget is adequate as CCWD anticipated significant professional service expenditures for relicensing in this fiscal year.

Attachments:
HDR Scope of Work



January 3, 2025

Michael Minkler
General Manager
Calaveras County Water District
120 Toma Court
San Andreas CA 95249

Via Electronic Mail: michaelm@ccwd.org

**Subject: North Fork Stanislaus River Project, FERC Project No. 2409
Proposal for Early Relicensing Support**

Dear Michael,

HDR Engineering, Inc. (HDR) submits this proposal to Calaveras County Water District (CCWD) to assist CCWD with early relicensing activities for its Federal Energy Regulatory Commission (FERC) licensed North Fork Stanislaus River Project, FERC Project Number (No.) 2409 (P-2409).

HDR proposes Chuck Vertucci as the Project Manager and Jim Lynch as the Senior FERC Advisor, who have worked together closely on FERC relicensing projects for the last 15 years. Jim has been HDR's project manager or strategic advisor on over 25 California relicensing projects since 2000. In addition, from 1984 through 1989, Jim, as an employee of Charles T. Main, Inc, was retained by CCWD and Northern California Power Agency (NCPA) to be the on-the-ground Environmental Manager for construction of P-2409. Jim became an employee of NCPA in 1990 and, in close coordination with CCWD, oversaw the project's environmental compliance during start-up and early operations. HDR also proposes to add Randy Bowersox with Gannett Fleming as a key subcontractor for this scope of work. Randy has recent and relevant experience regarding P-2409's facilities and operations. Other HDR technical staff will be integrated into specific activities as needed.

This proposal includes our understanding of the project and our proposed scope of services, assumptions, schedule, and compensation.

Project Understanding

On February 8, 1982, FERC issued an initial license to CCWD for P-2409 with a term of 50 years expiring on January 31, 2032. Through a March 1, 1985, power purchase contract, NCPA operates P-2409 until the expiration date of the original FERC license. FERC regulations require that, sometime between five and five and a half years before a license expires, the holder of the license (licensee) file with FERC a Notice of Intent (NOI) if the licensee intends to apply for a new license and a Pre-Application Document (PAD). Therefore, CCWD must file an NOI and a PAD for P-2409 with FERC between August 1, 2026, and January 31, 2027.

P-2409 is located in Calaveras, Tuolumne, and Alpine counties, California, with portions on federal lands managed by the Forest Service as part of the Stanislaus National Forest and by Bureau of Land Management (BLM) and Reclamation. P 2409 consists primarily of 1) North Fork Diversion Dam impoundment on the North Fork Stanislaus River; 2) North Fork Diversion Tunnel and outlet channel; 3) New Spicer Meadows Dam and Reservoir on Highland Creek, a tributary to the North Fork Stanislaus River; 4) New Spicer Meadows Intake; 5) New Spicer Meadows Powerhouse; 6) Beaver Creek Diversion Dam and impoundment on Beaver Creek, a tributary to the North Fork Stanislaus River; 7) Beaver Creek Diversion Tunnel and Penstock; 8) McKays Point Dam and Reservoir on the North Fork Stanislaus River; 9) Collierville Intake and Tunnel; 10) McKays Point Microturbine; 11) Collierville Powerhouse; 12) Collierville Tailrace; and 13) New Spicer Meadows Campground and New Spicer Meadows Boat Launch and Day Use Area.

Due to a potential conflict of interest at this time, HDR and its subcontractors will not provide relicensing-related work for P-2409, NCPA's Upper Utica Project (P-11563), or Utica Power Authority's Angels (P-2699) and Utica (P-2019) projects to other parties during the term of this contract unless otherwise agreed to by CCWD. HDR understands CCWD does not perceive a potential conflict of interest related to NCPA's Collierville and Spicer Meadow Transmission Line Project (P-11197), or other non-relicensing related work.

In addition, HDR recognizes that CCWD may retain other consultants who may have specific and ongoing experience with the Project to assist them in the P-2409 relicensing (e.g., hydrology/modeling). HDR has a long history of working with a team of consultants and will work with CCWD to establish efficient communications among the team and CCWD.

HDR understands it is CCWD's desire to begin some relicensing activities now to be ready to file the NOI and PAD on time and be better prepared for the larger relicensing process. The scope of work below describes how HDR will assist CCWD with certain early relicensing activities.

Proposed Scope of Services

HDR's scope of services includes seven tasks described below.

Task 1: Project Management and Administration

This task will include project management activities such as staff and deliverable coordination, invoice development and submission, and check-in calls with CCWD staff. HDR assumed the status check-in calls will occur virtually once monthly.

Task 2: Identifying, Compiling, and Reviewing Available Data

HDR will support CCWD with an initial gathering of relevant, reasonably available information that may be included in the PAD. This task includes the following activities:

- 1) Compile a list of special-status species that may be important to relicensing by utilizing iPAC (USFWS), CNDDDB (CDFW), Forest Service list of sensitive species, Rare Plant List (CNPS), and other relevant species databases
- 2) Compile list of special management areas (e.g., recreation, spotted owl PACs, critical habitats, wilderness areas) by reviewing relevant comprehensive management plans
- 3) Develop an annotated license, including license amendments, by reviewing FERC docket, which would also identify other documents filed with FERC by CCWD, NCPA, and others
- 4) Identify and collect available spatial data (i.e., LIDAR, bathymetry)

HDR assumes additional data will be gathered during the development of the PAD, including from information provided by resource agencies, Native American tribes, and other interested parties.

Deliverables:

- 1) Draft list of special status species and special management areas
- 2) Draft Annotated license

Task 3: Describe Existing Project Description and Operations

HDR will support CCWD with identifying and describing existing Project facilities and operations. This task includes the following activities:

- 1) Develop a detailed outline of Exhibit A (Project Description) and Exhibit B (Project Operations) that can be used in the PAD, as well as the draft and final license applications. HDR will indicate sections of the documents that can be better developed by CCWD or other consultants.
 - a. Exhibit A will include (from 18 C.F.R. Section 4.51(b)):
 - i. The physical composition, dimensions, and general configuration of dams, spillways, penstocks, powerhouses, tailraces, or other structures, whether existing or proposed, to be included as part of the project
 - ii. The normal maximum surface area and normal maximum surface elevation (mean sea level), gross storage capacity, and usable storage capacity of impoundments to be included as part of the project



- iii. The number, type, and rated capacity of turbines or generators, whether existing or proposed, to be included as part of the project
 - iv. The number, length, voltage, and interconnections of primary transmission lines, whether existing or proposed, to be included as part of the project (see 16 U.S.C. 796(11))
 - v. The specifications of additional mechanical, electrical, and transmission equipment appurtenant to the project; and
 - vi. Lands of the United States that are enclosed within the project boundary described under paragraph (h) of this section (Exhibit G), identified and tabulated by legal subdivisions of a public land survey of the affected area or, in the absence of a public land survey, by the available legal description. The tabulation must show the total acreage of the lands of the United States within the project boundary.
- b. Exhibit B will include (from 18 C.F.R. Section 4.51(c)):
- i. A statement whether operation of the powerplant will be manual or automatic, an estimate of the annual plant factor, and a statement of how the project will be operated during adverse, mean, and high water years
 - ii. An estimate of the dependable capacity and average annual energy production in kilowatt-hours (or a mechanical equivalent), supported by the following data:
 - 1. The minimum, mean, and maximum recorded flows in cubic feet per second of the stream or other body of water at the powerplant intake or point of diversion, with a specification of adjustments made for evaporation, leakage, minimum flow releases (including duration of releases), or other reductions in available flow, monthly flow duration curves indicating the period of record and the gauging stations used in deriving the curves, and a specification of the period of critical stream flow used to determine the dependable capacity
 - 2. An area-capacity curve showing the gross storage capacity and usable storage capacity of the impoundment, with a rule curve showing the proposed operation of the impoundment and how the usable storage capacity is to be utilized
 - 3. The estimated minimum and maximum hydraulic capacity of the powerplant (maximum flow through the powerplant) in cubic feet per second
 - 4. A tailwater rating curve; and
 - 5. A curve showing powerplant capability versus head and specifying maximum, normal, and minimum heads
 - iii. A statement, with load curves and tabular data, if necessary, of the manner in which the power generated at the project is to be utilized,

including the amount of power to be used on-site, if any, the amount of power to be sold, and the identity of proposed purchasers; and

- iv. A statement of the applicant's plans, if any, for future development of the project or of other existing or proposed waterpower project on the stream or other body of water, indicating the approximate location and estimated installed capacity of the proposed developments.

In addition, HDR will develop three Project location maps for the PAD: 1) regional location, 2) Stanislaus watershed with additional water projects, and 3) Project vicinity map. These maps are typically expected by FERC to be included in the PAD and are used throughout the relicensing.

HDR assumes that for the purpose of the PAD, existing Project design drawings (Exhibit L/F) and Project maps (Exhibit K/G) will be adequate to describe the existing Project.

Deliverables:

- 1) Draft and Final Outline for Exhibits A and B
- 2) Draft and Final Project locations maps, including associated GIS data

Task 4: Identify Potential Environmental, Institutional, and Legal Issues

HDR will support CCWD with identifying potential environmental and institutional issues. This task includes the following activities:

- 1) Prepare a list of potential environmental issues using the results from Task 2 and HDR's experience in the watershed and on other relicensings
- 2) Prepare a list of other projects in the watershed and potential overlap
- 3) Meet with CCWD staff to review and modify the list, including ranking the potential issues as they relate to the P-2409 relicensing

The information from Task 4 will be incorporated into the Communication Strategy (Task 6).

Task 5: Identify Stakeholder and Special Interest Groups, Local Officials, and Public Participants

HDR will support CCWD with identifying potential interested parties. This task includes the following activities:

- 1) Prepare a list of potentially interested parties including federal, state, and local agencies; Native American tribes; and non-governmental organizations, including their potential interest in the relicensing and potential study requests.
- 2) Update the list based on additional outreach.

The information from Task 5 will be incorporated into the Communication Strategy (Task 6).

Task 6: Develop Communications Strategy

HDR will support CCWD with development of internal and external information sharing platforms. This task includes the following activities:

- 1) Work with CCWD on an approach for an external platform to share relicensing information with the public. HDR recommends not going 'live' with the public platform until the broader communication strategy is developed.
- 2) Develop an outline of the structure for document management on the internal, private SharePoint site for CCWD and its relicensing team
- 3) Work with CCWD on an external communication strategy using information from Tasks 4 and 5, including an approach to pre-PAD outreach meetings and study plan development

Deliverables:

- 1) Proposed outline for public facing and inward facing document and information management
- 2) Proposed communication strategy through pre-PAD activities

Task 7: Prepare Budget and Schedule for Relicensing

HDR will support CCWD with development of a budget and schedule for relicensing. This task includes the following activities:

- 1) Review the existing ILP and TLP schedules and make updates, if necessary, based on CCWD's target filing date of the NOI and PAD of August 3, 2026
- 2) Develop a high-level annual cashflow for the relicensing using both the TLP and ILP schedules

Deliverables:

- 1) Updated ILP and TLP schedule
- 2) Annual estimated relicensing cashflow

Task 8: Sub-Consultant Support

HDR has retained Gannett-Fleming as a key sub-consultant for this task in order to utilize Randy Bowersox and other Gannett-Fleming employees' specific knowledge of the P-2409 Project facilities and operations. HDR anticipates Gannett-Fleming to review and provide suggested edits of the items developed by HDR in Tasks 1 through 7 for up to 80 hours. Gannett-Fleming staff may participate in virtual calls discussing the items in Tasks 1 through 7 at CCWD's request.



Overall Assumptions

Besides the assumptions stated above, HDR made the following major assumptions for the purpose of this proposal:

- Prior to beginning each task, HDR will consult with CCWD staff on information already compiled by CCWD to avoid duplication of effort.
- As information is collected and developed, HDR will post it in the appropriate folders on the private document management SharePoint site.

Anticipated Schedule

HDR will begin work once the contract is fully executed by all parties and anticipates work will be completed by June 30, 2025, unless extended by HDR and CCWD. Specific deliverable and meeting schedules will be developed by HDR and CCWD once the project is initiated.

Compensation

HDR proposes to perform this scope of work on a time-and-materials basis with a not-to-exceed value of \$89,730. HDR will obtain CCWD's prior approval should additional funding be needed.

Task	Description	Budget
1	Project Management	\$6,200
2	Compile Existing Data	\$13,000
3	Project Description and Operations	\$14,800
4	Identify Issues	\$4,800
5	Identify Stakeholders	\$4,800
6	Develop Comms Strategy	\$8,500
7	Prepare Schedule and Budget	\$6,600
8	Sub-consultant support	\$31,030
Total		\$89,730

HDR appreciates the opportunity to provide relicensing support to CCWD. If you have any questions regarding this submittal or require additional information, please do not hesitate to contact Chuck Vertucci at 916-679-8768 or Charles.Vertucci@hdrinc.com.

Sincerely,
HDR Engineering, Inc.

Holly L.L. Kennedy, PE (CA #74682)
Senior Vice President

Chuck Vertucci
Project Manager

4b

A G E N D A
I T E M

4b

Agenda Item

DATE: January 8, 2025

TO: Michael Minkler, General Manager

FROM: Kevin Williams, Senior Civil Engineer

SUBJECT: Discussion/Action to Award of Design and Environmental Services for the West Point Water Supply Drought, CIP 11129 Cal-OES/FEMA HMGP DR-4482-601-76R

RECOMMENDED ACTION:

Motion: _____/_____ to adopt Resolution No. 2025-____ accepting the proposal and authorizing the General Manager to enter into a Professional Services Agreement (PSA) with Blackwater Consulting Engineers. in a contract amount of \$475,046 for design, engineering, environmental and other professional services related to the West Point Water Supply Drought Project, CIP 11129.

SUMMARY:

The Project includes the development of detailed engineering drawings and specifications for raising and enlarging the West Point Regulating Reservoir, also known as the Bummerville Reservoir. The District is currently permitted to divert up to 4 CFS from Bear Creek and store up to 150 Acre-Feet of Water but the current capacity of the Reservoir is approximately 50 Acre-Feet. This project would reduce the reliance on water deliveries from CPUD through the Middle Fork and Acorn Pump Station. Both existing pump stations have substantial operational challenges that would otherwise have to be addressed if this Project is not completed.

Phase 1 Grant Funding (Design, Permitting and Environmental) has been authorized by Cal-OES in the amount of \$479,157 with 10% required match. Staff issued a Request for Proposals (RFP) on October 25, 2024, to solicit engineering, environmental and design services and conducted job walks of the project area with prospective consulting firms interested in submitting proposals. As tabulated below, the District received two (3) proposals as of the due date of December 18, 2024.

Staff reviewed the proposals concerning qualifications and experience, team organization, scope of work, cost effectiveness, schedule and other criteria. Staff ranked each proposal; all proposals were very close in scoring.

Staff finds that Blackwater Consulting Engineers is responsive to the District, and they

can deliver the Project Drawings in the accelerated timeframe necessary for the Project schedule and their Proposal is within the available budget for current FEMA Phase 1 Authorization. Blackwaters fee for Phase 1 is \$331,427 and overall cost for complete design and environmental is \$475,046.

The recommendation to the Board is to award a design/environmental contract to Blackwater Consulting Engineers, Inc. according to the submitted proposal and authorize the General Manager to enter into a Professional Services Agreement with Blackwater Consulting Engineers, Inc in the amount of \$475,046 for engineering and design services for the West Point Water Supply Drought Project. Staff expect to spend \$331,427 on this contract during the Phase 1 Design Phase.

There will be additional costs for DSOD Dam Safety and Environmental Permitting Fees that are not included in Blackwaters Proposal. The exact cost and timing of the fees is currently unknown. If all permitting fees are due in full during Phase 1, Project cost will exceed the current Phase 1 allocation and Staff will request additional funding from Cal-OES. If additional funds are not allocated, then District could be responsible for overmatch or difference in cost.

FINANCIAL CONSIDERATIONS:

The total project cost is estimated to be \$7.8 million including Design and Construction. The HMGP Grant Program requires a 90/10 percent local cost share, the District would be responsible for local cost share of 10%. FEMA has approved Phase 1 Grant Funding in the amount of \$479,157, which is sufficient to cover the Phase 1 Design and Environmental cost of \$331,427. Staff plans to add this Project and budget for the cost share at the upcoming Mid-Year CIP Budget Adjustments. Match Funding for this Project will come from Capital Improvement Water Funds.

Attachments:

- 1) Resolution No. 2025-Awarding Design Contract for the West Point Water Supply Drought Project, CIP 11129*
- 2) Black Water Consulting Engineers. Proposal, December 18, 2024*

RESOLUTION NO. 2025-

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE
CALAVERAS COUNTY WATER DISTRICT
APPROVING/AUTHORIZING HAZARD MITIGATION PROJECT, CIP 11129**

WHEREAS, the District has identified as a need to enlarge the West Point Regulating Reservoir, serving the West Point Water System, the existing reservoir is susceptible to natural disasters and drought conditions, Project received a CalOES-FEMA HMGP Grant with 90/10 percent local cost to complete this Project, and

WHEREAS, upon issuing a Request for Proposals (RFP) on October 25, 2024 for engineering, environmental and design services for the subject project and conducting a job walk of the project area with prospective consulting firms interested in submitting proposals, the District received two (3) proposals as of the due date of December 18, 2024, and

WHEREAS, the Engineering staff reviewed all proposals, concerning qualifications and experience, team organization, scope of work, cost effectiveness, schedule, and other criteria, and among the proposals staff recommends the Award of the contract for engineering and design services to Blackwater Consulting Engineers, Inc., and

WHEREAS, the total project cost is estimated to be \$7.8 million with a 90/10 cost share which in addition to authorized grant funds the District has obligated sufficient supplemental funding in its FY 2024-25 CIP budget to pay for the subject design contract, and

BE IT RESOLVED, the CALAVERAS COUNTY WATER DISTRICT Board of Directors hereby approves the proposal submitted by Blackwater Consulting Engineers, Inc., attached hereto and made a part hereof, and authorizes the General Manager to enter into a Professional Services Agreement (PSA) with Blackwater Consulting Engineers, Inc. in amount of \$475,046 for design and environmental services for said project.

PASSED AND ADOPTED this 8th day of January, 2025 by the following vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

CALAVERAS COUNTY WATER DISTRICT

Jeff Davidson, President
Board of Directors

ATTEST:

Rebecca Hitchcock
Clerk to the Board

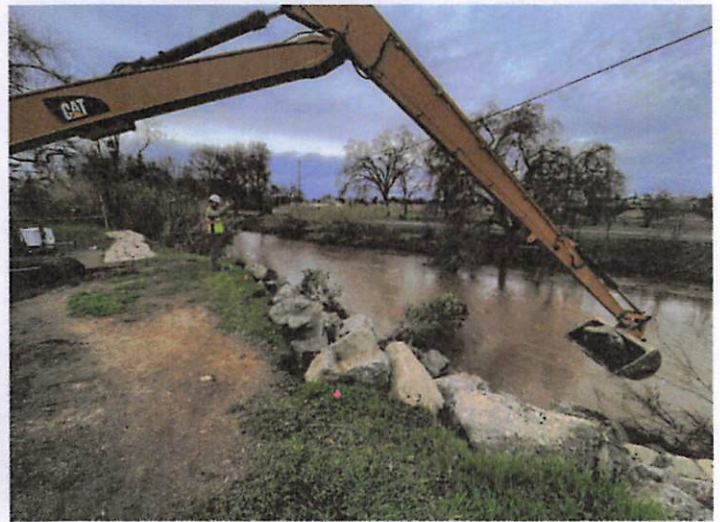
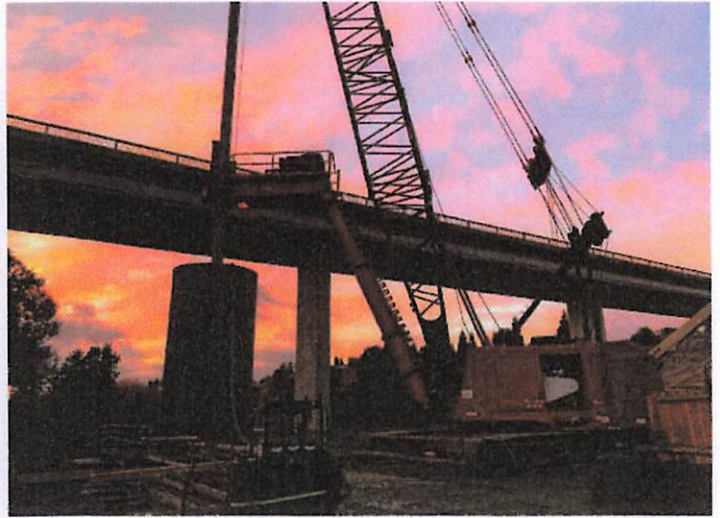


**Calaveras County Water District
West Point Water Supply Drought Project**
12/19/24
Fee Proposal
Level of Effort

		Crawford & Associates, Inc.														BLACK WATER								Subs			Totals					
Billing Rates \$/hr		260	240	200	170	150	140	135	120	127	110																					
TASK	Task Activity	Principal	Senior Project Manager	Project Manager	Senior Engineer / Geologist	Project Engineer II / Geologist	Project Engineer I / Geologist	Staff Engineer / Geologist	Drafter	Project Coordinator	Admin	Crawford Total Hours	Labor Cost per Task	Other Direct Costs	Crawford Fee	Principal	Project Manager	Associate Engineer	Assistant Engineer	Engineer Technician	Design/ Drafting	QAQC/ Admin.	Black Water Total Hours	Black Water Fee	Topo Survey	CEQA / NEPA	Structural	Subconsultants Total Fee	Total Fee ¹			
1 PHASE 1																																
1	Topographic Survey and Mapping											0	\$0.00	\$0.00	\$0.00		2		4		8		14	\$2,684	\$29,580				\$29,580	\$35,222		
2	Geotechnical Studies	14	36		41	106	20	53	8	20	7	305	\$49,375.00	\$30,824.90	\$80,199.90								0	\$0					\$0	\$80,200		
3	Environmental Studies											0	\$0.00	\$0.00	\$0.00								0	\$0		\$26,521		\$26,521	\$29,173			
4	Surface Hydrology Analysis											0	\$0.00	\$0.00	\$0.00		4	8	8	24	8		52	\$9,920				\$0	\$9,920			
5	Structural Design											0	\$0.00	\$0.00	\$0.00		1				4		5	\$974			\$4,000	\$4,000	\$5,374			
6	Preliminary Engineering Report (30%, 60%, PSE)											0	\$0.00	\$0.00	\$0.00	8	24	40	80	120	145	24	441	\$81,714				\$0	\$81,714			
7	Final Environmental Documents (CEQA/NEPA) ⁴											0	\$0.00	\$0.00	\$0.00		4	6					10	\$2,416		\$52,224		\$52,224	\$59,862			
8	Project Management and Administration	2	6		2	15	2	6		4	3	40	\$6,478.00	\$891.95	\$7,369.95	8	16	12				24	60	\$11,944		\$9,680	\$9,680	\$29,962				
	Phase 1 Total	16	42	0	43	121	22	59	8	24	10	345	\$55,853.00	\$31,716.85	\$87,569.85	16	51	66	92	144	165	48	582	\$109,652	\$29,580	\$88,425	\$4,000	\$122,005	\$331,427			
2 PHASE 2																																
1	90% Design Completion	4	4	2		6				5			\$3,935.00		\$3,935.00	4	20	24	40	80	120	8	296	\$55,328				\$0	\$59,263			
2	Bid-Ready Plans, Specifications, Estimate												\$0.00		\$0.00	4	20	24	40	40	80	12	220	\$41,740		\$8,000	\$8,000	\$0	\$50,540			
3	Construction Contract Award	4				6							\$1,940.00		\$1,940.00		8	40		12			60	\$13,292				\$0	\$15,232			
4	Project Management and Administration												\$0.00		\$0.00	8	24	24				40	96	\$18,584				\$0	\$18,584			
	Phase 2 Total	8	4	2	0	12	0	0	0	5	0	0	\$5,875.00	\$0.00	\$5,875.00	16	72	112	80	132	200	60	672	\$128,944	\$0	\$0	\$8,000	\$8,000	\$143,619			
TOTALS		24	46	2	43	133	22	59	8	29	10	345	\$61,728.00	\$31,716.85	\$93,444.85	32	123	178	172	276	365	108	1,254	\$238,596	\$29,580	\$88,425	\$12,000	\$130,005	\$475,046			
																														TOTAL FEE	\$475,046	

- Notes:
 1. All scope items and associated fees are based on the best approximation we can make given the current level of information we have.
 2. Our team will discuss and/or negotiate with the Client any scope or fee item shown on this Proposal.
 3. Subconsultant work is charged at cost plus 10 percent.
 4. Task 7 includes Section 404/401 and 1602 Permits

Proposal for:
Calaveras County Water
District



**Proposal For Design, Engineering And
Environmental Services For CalOES/FEMA
Hazard Mitigation Grant Program Project –
West Point Water Supply Drought Project**

Submitted By:



December 18, 2024



Proposal Due Date: 12/18/24

To: Calaveras County Water District

Subject: Proposal For Design, Engineering And Environmental Services For CalOES/FEMA Hazard Mitigation Grant Program Project, West Point Water Supply Drought Project

Black Water Consulting Engineers + Crawford and Associates, Inc., (BW+CA) is pleased to submit this Proposal for **Design, Engineering and Environmental Services for CalOES/FEMA Hazard Mitigation Grant Program Project West Point Water Supply Drought Project**. This Proposal includes a summary of our capabilities, experience, key personnel, scope, schedule, and fees per your RFQ dated 10/25/2024.

We recognize that the Calaveras County Water District (District) plans to increase the storage capacity of the West Point Regulating Reservoir to reduce dependence on outside water sources.

BW+CA is committed to and will provide the District with efficient and cost-effective solutions considering such factors as public safety, construction sequencing, traffic flow, proximity to private properties and public infrastructure, and cost, including fast-track and turnkey projects and often can be completed within a single construction season. In addition, Crawford has extensive experience working with FEMA, Cal OES, USACE, DSOD, Water Boards, and the Department of Fish and Wildlife for water projects throughout California.

Jeff Black of Black Water Consulting Engineers and Ben Crawford of Crawford & Associates, Inc. have worked together on water/wastewater related projects over the past 20+ years.

Jeff will serve as Principal-In-Charge and manage the contract with the district and be the point of contact. Ben will serve as Geotechnical Engineer for Geotechnical Work under this contract.

Benjamin D. Crawford, PE, GE
Principal-In-Charge
(916) 455-4225
ben.crawford@crawford-inc.com

Jeff Black, PE
Contract Manager
(209) 322-1817
jeff@blackwater-eng.com

Sincerely,
Crawford & Associates, Inc.

A handwritten signature in blue ink, appearing to read 'B.D. Crawford'.

Benjamin D. Crawford, PE, GE
President, Crawford & Associates, Inc.

A handwritten signature in blue ink, appearing to read 'Jeff Black'.

Jeff Black, PE
President, Black Water Consulting Engineers

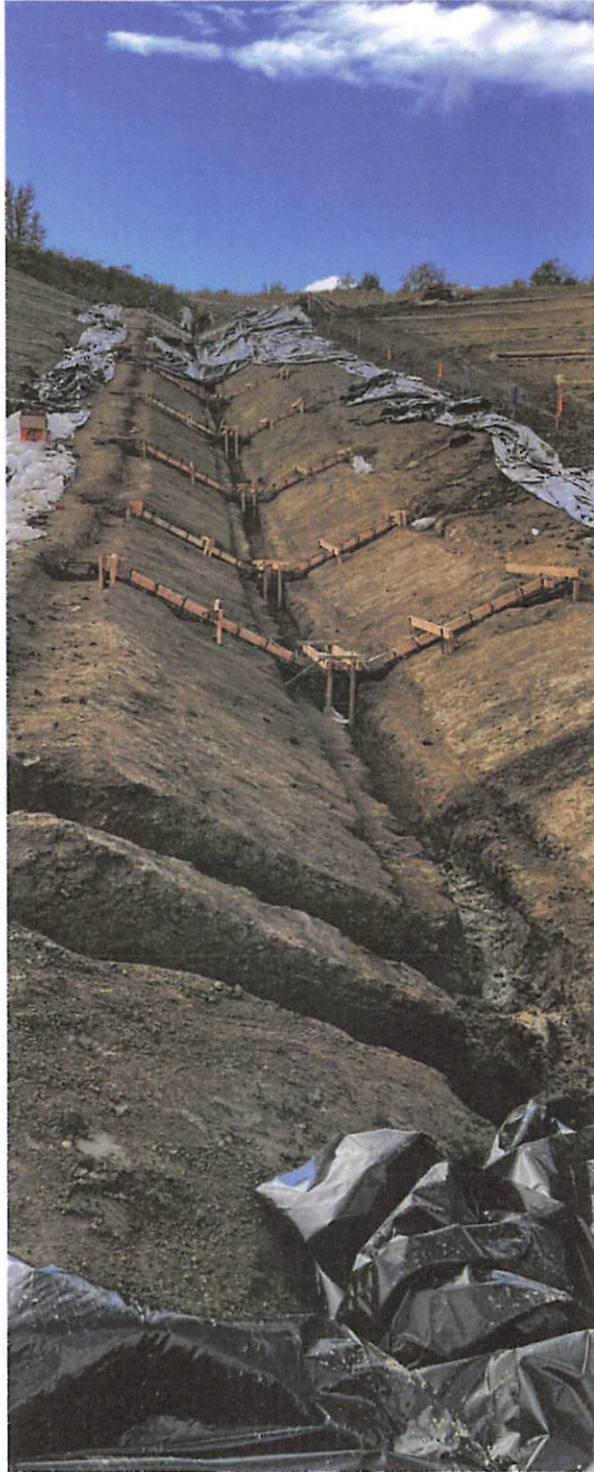


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RESUMES

STATEMENT OF QUALIFICATIONS

COMPANY BACKGROUNDS



Crawford & Associates, Inc. (Crawford) was established in 2012 and is a registered Small Business Geotechnical Engineering firm (Certification ID: 1744908) that specializes in large-scale public works projects. Our services are almost exclusively for public works projects and agencies with specialties in reservoirs, pipelines, water and wastewater systems, dams and levees. In 2016, Crawford merged with *Taber Consultants*, one of the nation's oldest Geotechnical Engineering companies (established in 1954). From this merger, Crawford gained access to geotechnical information for thousands of projects throughout California. As a result of our acquisition of Taber Consultants, we also have the ability to easily access information from previous work that allows us to tailor our scope of services using subsurface and other data from nearby projects.

Crawford at a glance:

60
Number of employees

7
Office locations

10
Calaveras County projects

200+
Water/wastewater projects



Black Water Consulting Engineers (Black Water) is a Central California firm that provides professional engineering services in water, wastewater, drainage, and construction management. The company was formed in 2012 and is comprised of talented, local professionals who endeavor to maintain an outstanding reputation for delivering responsive service, technical expertise, and value to our clients. Our firm is staffed with experts in the fields of planning and design of water supply, treatment, and distribution systems; wastewater collection, conveyance, and treatment works; storm water analysis and drainage facilities and construction management. We continually participate in the evaluation, design, and review of water and wastewater infrastructure projects and technologies in order to maintain a sound knowledge base of current design standards and construction methods. We have a solid track record in identifying and securing project financing, regulatory compliance, permitting, and reporting requirements for the water and wastewater industries.

OFFICE LOCATIONS

Work for the Calaveras County Water District On-Call Geotechnical Engineering and Material Testing Services contract will be performed from Crawford's Sacramento Office and Black Water's Modesto Office. Our other offices are available to offer support and staff as needed.

Crawford:

- Sacramento (Corporate) Office:** 4701 Freeport Boulevard, Sacramento, CA 95822 | (916) 455-4225
- Eureka Office: 21 West 4th Street, Eureka, CA 95501
- Modesto Office: 1405 8th Street, Modesto, CA 95354
- Santa Rosa Office: 3325 Regional Parkway, Suite 8, Santa Rosa, CA 95403
- Seattle Office: 1448 NW Market Street, Suite 500, Seattle, WA 98107
- Ukiah Office: 1072 North State Street, Ukiah, CA 95482

Black Water:

- Modesto Office:** 602 Lyell Drive, Modesto, CA 95356 | (209) 322-1820
- Fresno Office: 155 E Shaw Avenue, Suite 206, Fresno, CA 93710 | (559) 375-1522

CRAWFORD'S CAPABILITIES AND SERVICES

Services include Geotechnical Engineering, Engineering Geology, Inspection and Materials Testing, and Environmental and Hazardous Materials Assessments.

Project types include:

- Levees
- Dams
- Reservoirs
- Water treatment facilities
- Wastewater treatment facilities
- Water and Sewer Pipelines
- Pump Stations and Force Mains
- Tanks
- Trenched and Trenchless Construction
- Recycled Water
- Construction Observation, Special Inspection, and Materials Testing



BLACK WATER'S CAPABILITIES & SERVICES



Water

- Pumping & Booster Station Design
- Pipeline Design
- Well Design
- Water Treatment Design
- Water Master Planning
- Water Rate Studies
- Technical Report Preparation
- System Permitting
- Demand Analysis
- Hydraulic Modeling of Distribution Systems
- Storage Tank Design
- Financing Evaluations
- Regulatory Compliance
- Urban Water Management Plans
- Construction Management



Wastewater

- Sanitary Sewer Management Plans
- Regulatory Compliance & Permitting
- Compliance Reporting
- Sewer Master Planning & Asset Management
- Pump Station & Force Main Design
- Corrosion & Odor Control
- Pipeline Rehabilitation
- Inverted Siphon Design
- Collection System Modeling
- Sewer & Storm System Rate Studies
- Collection System Evaluation & Design
- Wastewater Treatment & Process Design
- Trenchless Construction
- Wastewater Recycling & Reuse
- Financing Alternatives
- Construction Management



Storm Water

- Pump Station Design
- Hydrologic Modeling
- Storm Drainage Analysis & Master Planning
- Capital Project Planning
- Condition Assessment
- Detention & Retention Facilities
- Open Channel & Culvert Design
- NPDES Compliance
- Rate Studies
- Low Impact Development (LID)

ADDITIONAL QUALIFICATIONS

Over the past 12+ years, the **BW+CA** team has provided the services referenced in the RFP for Cities, Counties, and Municipal Districts throughout California. **What sets our team apart is our familiarity with the Calaveras County.** Our team is able to mobilize quickly to provide services required by the City, allowing for cost and time savings throughout the duration of the project. **Communication, rapid response, and smart solutions are key to Crawford's success.**

BW+CA understands the District's needs/concerns and has experience with providing civil and geotechnical studies for similar projects, which help us to define the project scope and potential challenges due to permitting, site access, construction, environmental, and other aspects of the project.

SUBCONSULTANTS

Our team proposes the following subconsultants to perform Structural, Survey, and Environmental Services.

 **Pelton Wylie + Fahrney Engineering, Inc (PWF)**, founded in 2013, is a full-service professional structural engineering firm located at 2813 Coffee Road, Suite D1 in Modesto, CA where 100% of our work is completed. Principals Jamey Wylie and Nick Fahrney bring a combined 45+ years of experience on a wide variety of industrial, commercial, education, medical, and residential projects. Our staff consists of two full time licensed Structural Engineers, one licensed Civil Engineer, one Engineer-In-Training, and 3 full time drafters as well as supporting administrative staff. We have extensive experience with timber, masonry, reinforced concrete and steel (structural and light gauge) construction. Pelton Wylie + Fahrney Engineering, Inc has the resources to provide quality structural analysis, design and computer aided drafting for all types of projects. Our broad range of experience enables us to reliably provide our clients with efficient and quality structural solutions on time and on budget.



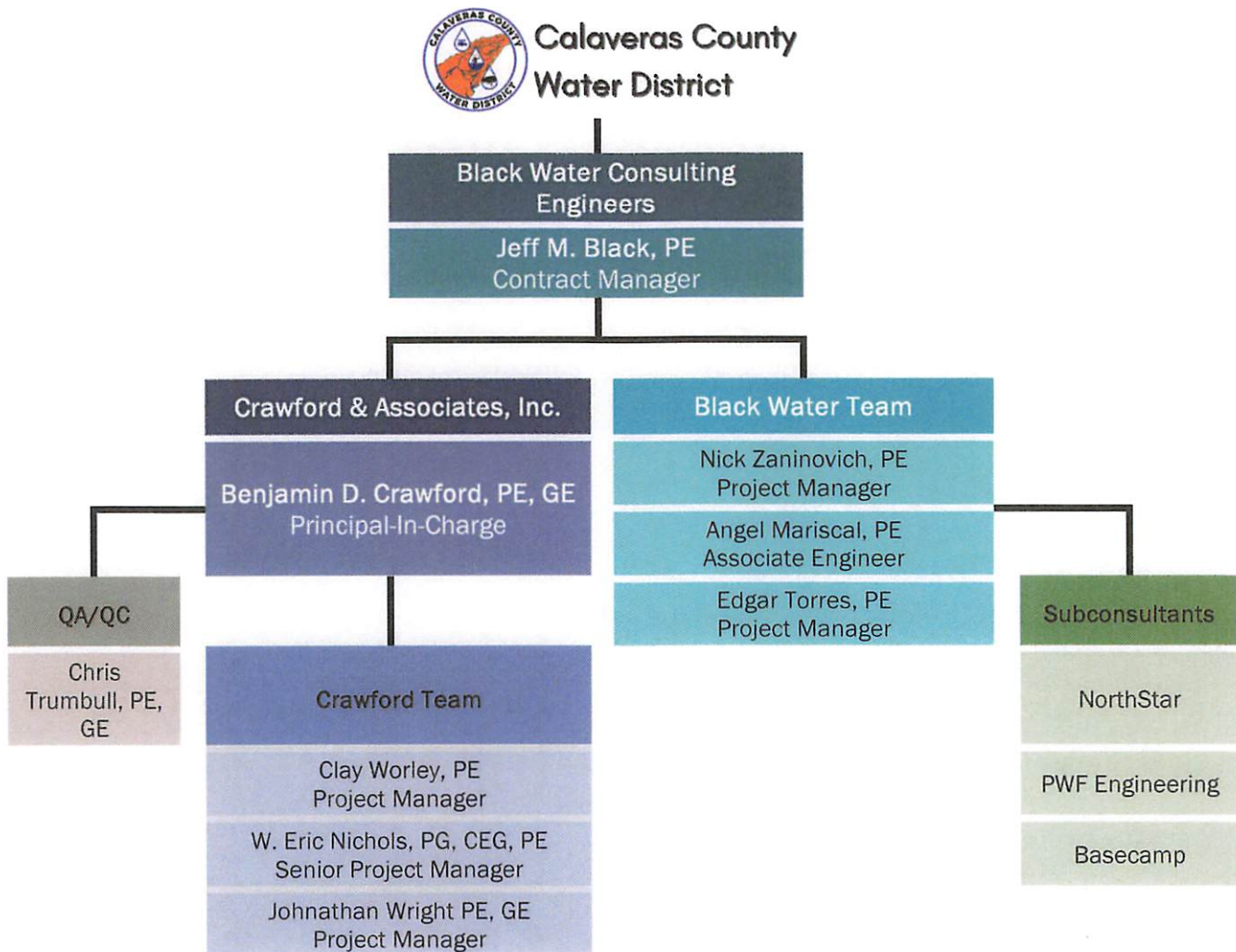
NorthStar Engineering Group, Inc. (NorthStar) was founded in 2002 and employs a staff of 52 full time professionals (8 licensed Professional Engineers, 4 licensed Land Surveyors, and a support staff of 35) under the direction of 5 working Principals.

NorthStar is a California corporation and a California Registered Small Business, which performs all services out of one office located in downtown Modesto. NorthStar is a full services local firm which provides Civil Engineering, Land Planning, and Land Surveying. Our staff is committed to client satisfaction and dedicated to providing our clients with quality and value. Each project has a dedicated project team that understands that successful projects can be correlated directly with the experience and time availability of the Project Manager. NorthStar has Project Managers that provide the experience and commitment required for this project. For this contract, NorthStar will provide Land Surveying services.



BaseCamp Environmental is a small consulting firm specializing in environmental planning and environmental impact assessment under CEQA and NEPA. BaseCamp is dedicated to high-quality product, processing and communication and its work is informed by a wealth of diverse project experience gained in challenging and dynamic circumstances. BaseCamp staff have facilitated environmental review and prepared EIRs, EISs and a range of other environmental documents for major land use and transportation, residential, commercial, industrial, mining, recreation/resort, energy, water resource development, street and bridge improvements, and communication systems projects. Over the last 35 years BaseCamp has provided CEQA and NEPA services for hundreds of small to very large projects in the San Joaquin Valley and surrounding counties.

ORGANIZATIONAL CHART



RELEVANT PROJECT EXPERIENCE

Crawford specializes in the types of projects and services identified in the District's Request for Proposal. We understand the project will require engineering design, environmental studies, and geotechnical engineering services.

Projects from the Crawford and Black Water team:

- Murphys Sanitary District State Route 4 Sewer Replacement Project, Murphys, Calaveras County
- City of Angels WWTP Upgrade Clear Well Removal, City of Angels, Calaveras County
- City of Angels Water Treatment Plant Upgrade, City of Angels, Calaveras County
- Sawmill Tank Replacement, Calaveras County Water District, Calaveras County
- Wallace Tank Replacement, Calaveras County Water District, Calaveras County
- Lake McClure Raw Water Intake Extension, Mariposa County
- Yosemite West WWTP, County of Mariposa, Mariposa County
- Mariposa Natural Disaster Water Storage Mitigation, County of Mariposa, Mariposa County
- Thornton WWTP Evaluation, Housing Authority of the County of San Joaquin, San Joaquin County
- Century Mobile Home Park Water Supply, City of Stockton, San Joaquin County
- Thornton WWTF New Conveyance System, Housing Authority of the County of San Joaquin, San Joaquin County
- City of Tracy WWTP Pond Berms, City of Tracy, San Joaquin County
- Wastewater System Repairs for Buena Vista Migrant Center, Stanislaus Regional Housing Authority, Santa Cruz County
- City of Patterson Well Site No. 14, City of Patterson, Stanislaus County
- Oakdale River Crossing Retaining Wall and Lateral Loads, City of Oakdale, Stanislaus County
- Oakdale Sewer River Crossing, City of Oakdale, Stanislaus County
- Keyes Water System Consolidation Improvement Project – Keyes, Rohde Road, Golden State, and Faith Home Pipelines, Stanislaus County
- Ceres River Bluff Reservoir and Pumping Facility, City of Ceres, Stanislaus County
- Grayson CSD Wastewater Treatment Facility Planning Project, Stanislaus County
- Riverview Mobile Home Estate On-site Wastewater Treatment System (OWTS) Design, Riverview Mobile Home Park, Stanislaus County
- Jamestown Sanitary District Wastewater Treatment Facilities Project, Tuolumne County
- Curtis Creek Elementary School Water Line, Curtis Creek School District, Tuolumne County



Below is a sampling of reference projects completed by BW+CA.



Veeder Hills Dam
Crawford & Associates, Inc.
 Napa County, CA

The project includes upgrading the dam spillway to meet current safety standards. The Project will reconstruct the existing spillway with a concrete lining, install a siphon outlet that will discharge into the spillway channel, install an embankment seepage underdrain system to collect and allow seepage to drain, and relocate the irrigation pump station from the top of the dam embankment to a new location adjacent to the reservoir.

Crawford & Associates, Inc. prepared a Geotechnical Memo in response to the state Division of Safety of Dams' (DSOD) concerns regarding the seismic stability of the Veeder Hills Dam. A previous Geotechnical Report recommended establishing a toe berm on the downstream side of the dam to increase the Factor of Safety (FOS) under seismic conditions. DSOD's internal analysis concluded lower Factors of Safety than previously reported and potentially excessive seismic deformations using simplified Newmark methods. Crawford updated the stability analysis using SLIDE software and current site topography. Analysis included an increase in berm dimensions, current seismic parameters utilizing the USGS Unified Hazard Tool; revised/reduced strength parameters for the existing embankment, older landslide material and stability berm; evaluating the model with and without a 1-foot increase at the crest; and a "chimney drain" along the backslope of the berm to lower the phreatic surface. Crawford confirmed the DSOD's new berm dimensions were adequate to meet current seismic design standards. Other services performed by Crawford include additional data review, seismic criteria, preliminary slope stability and deformation analyses, and a Borrow Site Evaluation Memo.

In 2023, Crawford completed a Supplemental Landslide Evaluation to summarize the slope stability analysis performed for the right abutment slope and spillway to determine if the slopes meet the appropriate factor of safety.

Crawford is currently performing geotechnical services during construction, including field observations, compaction testing, and laboratory testing.

Client

Lorenzo Dalla Brea
 Hess Collection Winery
 707-255-1144

Crawford Team

- Benjamin D. Crawford, PE, GE, Principal Geotechnical Engineer
- W. Eric Nichols, PG, CEG, PE, Principal Engineering Geologist
- Chris Trumbull, PE, GE, Senior Project Manager
- Keiko Lewis, PE, Senior Engineer

Timeframe

2016-Ongoing

Contract Amount

Phase 1: \$3,097
 Phase 2: \$21,730
 Phase 3: \$33,700
 Phase 4: \$46,358
 Phase 5: \$231,648



Feather River West Levee Rehabilitation Project, Sutter County, CA

Feather River West Levee Rehabilitation Project
Crawford & Associates, Inc.

Sutter County, CA

Project Area A: The Feather River West Levee Rehabilitation project consisted of 11 miles of Segment 7 (Project Area A). The goal of the project is to reduce flood risk and eventually remove more than 34,000 properties from FEMA Special Flood Hazard Areas. Compared historical seepage/slope stability issues, geomorphology, Helicopter Electromagnetic Surveys with new and historical boring logs, lab testing data and cone penetrometer data to provide preliminary and final levee rehabilitation options. Improvement options include installing seepage and stability berms, and soil/bentonite cutoff walls. Performed 2D steady state seepage and slope stability analysis at various cross section locations. Performed rapid drawdown analysis using Duncan, Wright and Wong methodology.

Project Area B & D: Ben Crawford of Crawford & Associates, Inc. (Crawford) oversaw the verification drill logging and sampling program for the deep soil mixing (DSM) portions of the project. Oversaw the trench logging during the traditional slurry wall excavation and installation. Provided Geotechnical consulting during construction including review and summary the historical design boring logs with the new information obtained during construction. The team reviewed and compared the trench and boring logs with the samples collected in the field to ensure the logs were correct. The project is being completed within the guidelines of FEMA's Flood Mitigation Assistance Grant Program to provide 200-year level of protection for urban areas in the Sutter basin and 100-year level of protection for non-urban areas.

Project Area C: Crawford were the contracted Geotechnical Engineers for the construction portion of the Project Area C levee rehabilitation project. Oversaw the verification drill logging and sampling program for the deep soil mixing (DSM) and the trench logging during traditional slurry wall excavation and installation. Provided Geotechnical consulting during construction including review and summary the historical design boring logs with the new information obtained during construction. Reviewed and compared the trench and boring logs with the samples collected in the field to ensure the logs were correct.

Client

Sutter Butte Flood Control Agency
 Michael Bessette, P.E., Executive Director, Sutter Butte Flood Control
m.bessette@sutterbutteflood.org
 (530) 755 9859

Crawford Team

- Benjamin D. Crawford, PE, GE, Principal Geotechnical Engineer
- Johnathan Wright, PE, Project Engineer

Timeframe

2008-2015

Contract Amount

\$1.75 Million



San Andreas Wastewater Treatment Plant Upgrade, Calaveras County, CA

San Andreas Wastewater Treatment Plant Upgrade
Crawford & Associates, Inc.

Calaveras County, CA

Upgrades to the WWTP include:

- Headworks Structure support on a concrete mat foundation located approximately 8 ft below existing grade,
- 1,500 sq. ft. Concrete Aerobic Digester approximately 20 ft. below existing grade,
- Digester Blower supported on shallow concrete foundations, and
- Raising the Pond D outfall elevation to increase the temporary storage capacity of the pond.

Key geotechnical considerations for the project include seepage and slope stability analysis for Pond D, and soil/rock stratification, excavatability, bearing capacity, and foundation design for the WWTP upgrades.

Numerous test pits and seismic refraction lines were performed in the field during design development of the previous projects and some of the information and knowledge acquired will be utilized during this project. We discuss the previous and planned exploration below.

Pond D: The previous Pond D expansion projects (Phase 1 and 2) only involved excavating additional soil from within the pond D footprint/basin, therefore our explorations included test pits and seismic refraction lines to determine rippability within the basin for planning and construction bidding. The new boring and test pit information was used to determine the strength and relative compaction of the berm material and develop seepage and slope stability parameters to determine if the berm could perform adequately under the proposed additional Pond D water levels.

WWTP Plant: Twelve Test pits and four seismic refraction lines were completed as part of the 2009 WWTP improvement project. Test pits and seismic refraction lines were performed in the vicinity of the Aerobic Digester/Blower and the Headworks structure in order to understand rock/soil transition information, excavatability, and design parameters needed to provide recommendations for use by the structural engineering and the contractor for these additional improvements.

Client

San Andreas Sanitary District
 675 Gold Oak Rd, San Andreas, CA 95249
 (209) 754-3281

Crawford Team

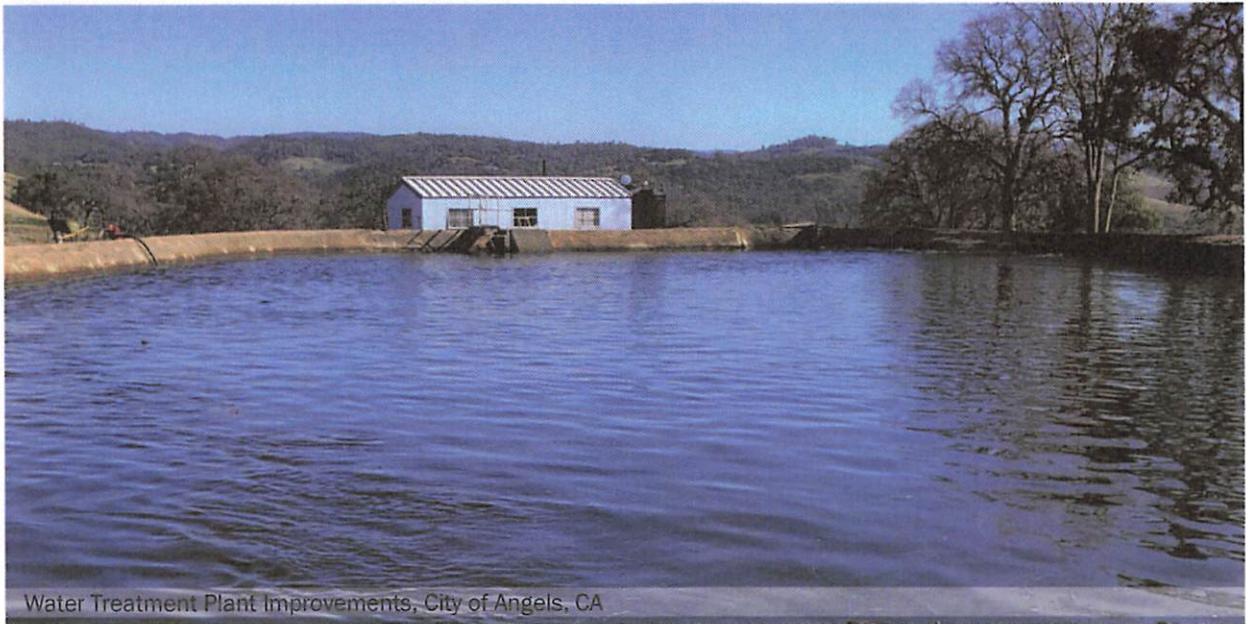
- Benjamin D. Crawford, PE, GE, Principal
- John Wright, PE, GE, Project Engineer

Timeframe

2007 to 2017

Contract Amount

WWTP Upgrades - \$20K;
 Pond D - \$36K



Water Treatment Plant Improvements, City of Angels, CA

City of Angels Water Treatment Plant Improvements (DWSRF) – Black Water

Black Water is working to secure funding through the SWRCB DWSRF program for the design and construction of the City of Angels Water Treatment Plant Improvements Project. The existing water treatment plant is aged and lacks redundancy and capacity for the 20-year demand projections based on the 2013 City of Angels Master Plan. The Project will be constructed in two phases over five (5) or more years.

Phase 1 of the project will focus on implementing and improving the backwash recovery, solids handling, and site infrastructure and layout at the WTP. Phase 2 will focus on improving the sedimentation, filtration, and transmission at the WTP. Black Water has prepared an engineering report, developed cost estimates, and completed the initial design and recommendations for the improvements of the filtration, disinfection, backwash, and other key processes at the City of Angels WTP.

Project Contact

Rebecca Callen, City Administrator
 City of Angels
 P: 209.736.2185
rebeccacallen@angelscamp.gov

Contract Amount

\$579,000

Timeframe

Feb 2018 - Nov 2022



Wastewater Treatment Plant Project, Jamestown, CA

Jamestown Sanitary District Wastewater Treatment Plant (WWTP) Project Planning Report – Black Water & Crawford

As the District Engineer for Jamestown Sanitary District (JSD), Black Water successfully applied for and secured \$480,000 in SRF planning funds to conduct a condition assessment and provide recommendations for the existing wastewater treatment plant. The existing facility consists of headworks, primary clarification, trickling filter, secondary clarifier, solids dewatering, effluent storage and pumping equipment. Portions of the process are over 60 years old and require intensive effort for normal operation and maintenance. Alternatives were evaluated including replacing the WWTP with a modern process, prioritized upgrades to individual treatment processes, and relocation of the entire WWTP to a secondary site owned by the JSD.

Key Issues & Challenges

In order to receive construction funds for the project recommendations, the JSD is required to meet financial criteria for maintaining project reserves and sewer rates. Black Water prepared a rate study with recommendations for a rate structure and presented this information to the JSD board of directors.

Project Contact

Nick Rivera
 Operations Supervisor/
 CPO, Jamestown Sanitary
 District
 P: 209.984.5177
jsdchiefop@mlode.com

Contract Amount

\$200,000

Timeframe

Nov 2013 - Mar 2017

Crawford was the geotechnical lead for the project.



River Trunk Sewer Project, Modesto, CA

City of Modesto River Trunk Sewer Project Preliminary Design Report – Black Water

The Sutter Trunk and River Trunk did not provide adequate capacity to convey peak wet weather flows, exposing the City of Modesto to the risk of public health impacts and fines from sewer system overflows. Additionally, the Cannery Segregation Line (CSL) pipeline did not have adequate capacity to convey the peak flows from the Beard Industrial Park industries, should all of them discharge to their contracted limits at the same time. Additional flow capacity is required for the River Trunk and CSL pipeline to prevent SSOs in highly environmentally sensitive areas such as Beard Brook and the Tuolumne River. The project included the development of alternatives to address flow capacity deficiencies and aging infrastructure for the River Trunk, Sutter Trunk, CSL, and Beard Brook Siphon facilities. Black Water’s scope of work included the identification and evaluation of alternatives for a new alignment of the River Trunk sewer for crossing Dry Creek between E&J Gallo and Beard Brook Park. Evaluation included the development of detailed analyses for construction methods, including HDD (horizontal directional drill), bore and jack, open cut, and PTMT (pilot tube micro tunneling). In addition to overall project costs, evaluation criteria included construction duration and scheduling, coordination with Gallo and their operation and site restrictions, and diversion/tie in scenarios to the existing system. Black Water was also responsible for the coordination between Gallo’s engineering staff and City of Modesto operations and engineering staff which included planning and conducting three project planning meetings. Project deliverables included a PDR, 35% design plans, final design, specifications, and cost estimates.

Key Issues & Challenges

Black Water evaluated key project elements and project challenges for the preliminary design, which included:

- Addressing the challenge of very limited space and strict access conditions on the Gallo property for mobilization, diversion structure, and service maintenance during construction.
- Development of a multiple barrel siphon crossing beneath Dry Creek, including hydraulic calculations and permitting.

Project Contact

David Felix
 City of Modesto
 P: (209) 577-5488
dfelix@modestogov.com

Contract Amount

\$140,000

Timeframe

May 2014 - Dec 2014

Crawford was the geotechnical lead for the project.

SCOPE OF SERVICES

PROJECT DESCRIPTION

BW+CA understands that the project includes raising and enlarging the existing West Point Regulating Reservoir in West Point, California. We understand the existing dam is approximately 35 feet high and 500 feet long. The proposed project will increase the capacity of the reservoir from 50 AF to approximately 150 AF by a combination of excavation within the body of the reservoir and damn enlargement/extension. We understand the project will adhere to the second revised plan in the Calaveras County Water District's (CCWD) "2018 Supplemental West Point Water System Master Plan". Project features include raising the dam embankment from elevation 2,990.9 to elevation 3,003 and extending the reservoir to the southeast. In this plan, the existing spillway open channel outfall will be replaced with a 3-foot-deep by 10-foot-wide box culvert. The proposed maximum water surface elevation in the reservoir will be 2,999. We understand the access path will be relocated and retaining walls ranging from a height of 2 feet to 4 feet will be required.

PHASE 1

This phase focuses on the foundational aspects of the project, which includes preparing a Preliminary Design Report and conducting essential studies to ensure compliance with environmental and engineering standards. Key tasks include topographic mapping, geotechnical studies, and surveys for native trees, biological resources, and cultural properties. Simultaneously, environmental reviews for CEQA and NEPA compliance will be carried out, along with hydrological analyses and permitting processes, such as applications for Section 404/401 and 1602 permits. By the end of Phase 1, preliminary design deliverables (30% and 60% level drawings) will be prepared, culminating in the submission of environmental and engineering documentation to FEMA.

Phase 1: Schedule Of Tasks

No.	Description	Start Week	Duration (Weeks)	Completion
Task 1	Topographic Survey and Mapping	1	4	February 2025
Task 2	Geotechnical Studies	1	12 ¹	April 2025
Task 3	Environmental Studies	2	8	March 2025
Task 4	Surface Hydrology Analysis	4	4	March 2025
Task 5	Structural Design	4	8	April 2025
Task 6	Preliminary Design Report	6	6	April 2025
Task 7	Final Environmental Documents	6	8	May 2025
Task 8	Project Management and Administration	1	13	May 2025

¹ Assumes DSOD will review and approve our work plan in 3-4 weeks

TASK 1: TOPOGRAPHIC SURVEY AND MAPPING (NORTH STAR)

North Star shall perform design surveys and mapping. The project coordinates shall be based on the California Coordinate System of the North American Datum of 1983, Zone III, grid coordinates based on an OPUS solution from NGS. Vertical control will be set based on the North American Vertical Datum of 1988 (NAVD 88) based on an OPUS solution from NGS. Surveys will be performed using traditional survey methods. Upon completion of survey control and upon completion of record property and survey monument

location calculations, Consultant shall verify the physical existence of the monumented control points and set additional control points required for the design surveys. Consultant shall perform detailed field topographic surveys of the existing reservoir site, physical improvements, visible utilities within the project site.

The following items are included in the topographic survey:

- Existing manholes and inverts;
- Existing visible utilities and markings;
- Existing pavement and concrete;
- Existing ground elevations and grade breaks;
- Existing roads;
- Existing Buildings/Structures;
- Fencing and gates;
- Existing visible water lines.
- Existing Spillway and drainage channel.
- Existing pond bottom. (District to provide boat)

Note: This excludes tree/shrub locations.

North Star will prepare a Topographic Survey Plan at 1"=20' depicting existing visible improvements, 1-foot existing ground contours, spot elevations, and utilities combined with Land Net Map. Provide benchmarks used in completing survey and copy of the field notes

EXCLUSIONS:

- a. Record of Survey/Monument Preservation.
- b. Design.
- c. Legal Descriptions & Plats.
- d. Construction Staking.
- e. Agency Fees.
- f. Utility A-Letters and utility locating.
- g. Items not listed in the above Scope of Work.

TASK 2: GEOTECHNICAL ENGINEER (CRAWFORD)

1. PROJECT WORK PLAN/OFFICE RESEARCH AND REVIEW

Crawford will review published geologic and seismic mapping (including faulting, historic seismicity and anticipated ground motions). Crawford will prepare a Geotechnical Work Plan detailing our investigation and testing plan. This plan will be submitted to the state Division of Safety of Dams (DSOD) for review and comment prior to beginning work. The Plan will include:

- Project description and objectives of the study
- Review of DSOD file data and summary of construction history
- Plan drawing of proposed boring locations
- Detailed description of drilling and sampling procedures, including drilling methods, field testing and logging procedures
- Laboratory Test Program

2. GEOTECHNICAL INVESTIGATION (CRAWFORD)

The scope of the geotechnical investigation will depend on a complete review of the existing data (Task 1) and discussions with DSOD, including their comments on the submitted Task 1 Work Plan. The following scope is therefore preliminary, based on our experience with similar facilities and DSOD.

3. SITE EXPLORATION (CRAWFORD)

Crawford will coordinate and schedule the site exploration with the CCWD and DSOD. Crawford will drill and sample approximately 3 test borings along the crest to evaluate the existing embankment materials and underlying foundation conditions. Additional borings (or possibly test pits) will be completed at the downstream toe and/or along the upstream or downstream faces of the dam, depending on the existing information and site access. The final number, depths and locations will be determined as part of the project Work Plan (Task 1).

The depth of crest borings will be 60-70 feet (approximately 25-35 ft below the embankment foundation) or until 10 feet of intact rock/competent rock is encountered. The depth of the toe borings will be about 25-35 feet or until 10 feet of intact/competent rock is encountered.

At least one of the crest borings will be continuously sampled to provide a consistent record of the embankment/foundation conditions. The remaining borings will likely be sampled at approximately 5-ft intervals. Sampling will be performed with “Modified California” (2.4” I.D.) and “Standard Penetration Test” (1.4” I.D.) drive samples using a calibrated automatic hammer per ASTM D1586 until intact rock is encountered and rock coring methods are used

LABORATORY TESTING

We expect to conduct the following laboratory tests on recovered samples:

- Moisture Content and Unit Weight
- Unconsolidated Undrained (UU) triaxial shear tests and point loads.
- Sieve Analysis
- Atterberg Limits

ENGINEERING ANALYSIS/GEOTECHNICAL REPORT

Crawford will conduct engineering analysis to support recommendations contained in a Geotechnical Report. The report will contain the following: Scope of Work; Site Description; Project Description; Field Exploration; Laboratory Testing; Site Geology and Subsurface Conditions; Seismic Data and Evaluation; Liquefaction Evaluation; Slope Stability Analysis; Seepage Analysis; Settlement Analysis; Seismic and Static Lateral Pressures; Construction Considerations; Location and Site Map; Fault Map; Geologic Map; Exploration Map; Boring Logs; Laboratory Test Results.

Deliverables:

- Draft Geotechnical Report
- Final Geotechnical Report

Assumptions:

- The client or others will provide any required Rights-of-Entries to complete the fieldwork.
- Design water surface elevations will be provided by others for our analysis.
- All permitting applications will be handled by others.

TASK 3: ENVIRONMENTAL STUDIES

1. PROPOSED SCOPE OF SERVICES

a. CEQA Environmental Compliance

Initiation: BaseCamp’s involvement in the CEQA compliance portion of the project will be initiated on receipt of Purchase Order or other Authorization to Proceed. BaseCamp will immediately initiate discussion with CCWD representatives and engineers, including one or more site visits, to discuss the proposed project and

its construction, and to verify the scope and schedule for preparation of the CEQA and NEPA environmental documents.

Project Description: BaseCamp will prepare a written description of the project using the information provided by the CCWD engineers and consultants. The location of all project elements, project objectives, project objectives and timing will be described using text and graphics, relying primarily on drawings provided by the project engineer. The Project Description will include the area and volume of potential land disturbance and potential encroachment on or use of natural resources.

Subcontractors: The environmental documents will require technical studies by biological, cultural resource and acoustical subcontractors. BaseCamp will retain, supervise and quality control the following technical subcontractors; costs for these subcontractors are shown in the proposed budget.

Biological Resources, Geo Graening, PhD. Biological survey and inventory, impact analysis support, native tree survey, pre-construction and construction monitoring.

Cultural Resources, Natural Investigations, Inc. Cultural resources survey and inventory. The need, if any, for pre-construction and construction monitoring has not been established.

Noise, Saxelby Acoustics. Acoustical conditions survey, prediction of construction noise associated with reservoir improvements and borrow area operations.

Environmental Impact Analysis: BaseCamp will collect and describe environmental setting data relevant to the proposed project and its potential environmental effects for inclusion in the Initial Study. This process will include detailed review of information available from the project engineers; biological, cultural resource and noise subcontractors; CEQA documents for relevant past CCWD projects; the Calaveras County General Plan and background reports; the General Plan EIR, zoning, and other file data; site visits; contacts with agencies with applicable environmental data or with service responsibility to the project; and other sources. Environmental data will be compiled in Environmental Setting sections for each environmental discipline addressed in the following Proposed Outline. The amount and depth of environmental background information will be scaled to the anticipated scope and complexity of environmental impacts associated with the project.

BaseCamp will assess potential for the project to result in significant environmental impacts in each of the environmental discipline areas listed below, addressing all of the potential significance questions posed by the most-recent CEQA Appendix G checklist. The scope of study in each discipline will vary with the importance and complexity of anticipated issues.

Potentially significant effects will be identified on the basis of "significance thresholds" inherent in the CEQA Initial Study checklist questions. Potential environmental effects found to be less than significant or of no effect whatsoever will be identified, noting the reasons for the finding. All significance determinations will be based on substantial evidence documented in the Initial Study. The analysis will include analysis of the potential for cumulative and growth-inducing impacts as well as any other subjects required by CEQA.

Mitigation Measures: For potentially significant environmental effects identified, BaseCamp will also identify and describe feasible mitigation measures that could avoid, substantially reduce, or minimize those effects. Mitigation measures will be described as to their applicability to the location, nature and timing of the elements of the project. The document will specify the potential effect to be mitigated, the proposed mitigation, how, by whom and when the effect will be reduced, and the level to which potential environmental effects would be reduced.

Initial Study: The environmental impact analysis will be compiled in an Initial Study document incorporating the most recent CEQA Environmental Checklist Form, supplemented with narrative text describing the project, the environmental setting, the impact analysis and results, and proposed mitigation measures. A Summary will briefly list potentially significant impacts, mitigation measures, the significance of impacts before and after mitigation.

PROPOSED OUTLINE

INITIAL STUDY/MITIGATED NEGATIVE DECLARATION CALAVERAS COUNTY WATER DISTRICT WEST POINT WATER SUPPLY PROJECT

CHAPTER 1 INTRODUCTION AND SUMMARY

CHAPTER 2 PROJECT DESCRIPTION

CHAPTER 3 ENVIRONMENTAL CHECKLIST FORM

- | | |
|------------------------------------|--|
| 1. Aesthetics | 12. Mineral Resources |
| 2. Agricultural Resources | 13. Noise |
| 3. Air Quality | 14. Population and Housing |
| 4. Biological Resources | 15. Public Services |
| 5. Cultural Resources | 16. Recreation |
| 6. Energy | 17. Transportation/Traffic |
| 7. Geology and Soils | 18. Tribal Cultural Resources |
| 8. Greenhouse Gases | 19. Utilities and Service Systems |
| 9. Hazards and Hazardous Materials | 20. Other Issues (if any) |
| 10. Hydrology and Water Quality | 21. Wildfire |
| 11. Land Use and Planning | 22. Mandatory Findings of Significance |

APPENDICES

CEQA Recommendation: Based on the Initial Study, BaseCamp will prepare a CEQA recommendation or set of recommendations for the project. These recommendations will include whether a Mitigated Negative Declaration is an acceptable option for CEQA processing or whether an EIR must be prepared, which is not anticipated.

Administrative Draft IS/MND: In the event that BaseCamp and CCWD agree that a Negative Declaration is the best CEQA option, BaseCamp will compile an administrative review draft Initial Study/Mitigated Negative Declaration document and submit it in electronic form to CCWD and its engineers for administrative review, comment, revision, and when complete, approval for publication.

Public Review Draft IS/MND: BaseCamp will revise the IS/MND in accordance with CCWD and engineering comments. A screen-check version of the document will be provided to the CCWD and/or the Project Engineers so that requested revisions can be verified.

Circulation of Public Review Draft: BaseCamp will conduct the public review process for the IS/MND on behalf of the CCWD as prescribed in the CEQA Guidelines, or provide assistance to CCWD staff, as requested. BaseCamp will prepare a Public Review Plan identifying the distribution list for the Notice of Intent and IS/MND as well as specific reproduction plans that maximize electronic distribution and minimize hard copy reproduction, consistent with applicable CEQA requirements.

BaseCamp will coordinate with the CCWD prior to public review as to a probable hearing date for IS/MND adoption and establish a corresponding 30-day public review period, leaving time for preparation of the Final IS/MND.

BaseCamp will prepare a Notice of Intent, including notice of a proposed hearing date, for inclusion in the Public Review Draft IS/MND and for publication in a newspaper of general circulation. BaseCamp will provide an electronic (pdf) copy of the IS/MND to the CCWD for posting on the CCWD website. BaseCamp will coordinate with the CCWD to ensure the publication of the Notice of Intent in a newspaper of general circulation. Publication fees will be the responsibility of the CCWD.

BaseCamp will coordinate hard copy and electronic reproduction of the IS/MND as defined in the Public Review Plan. It is assumed that BaseCamp will be responsible for obtaining reproduction services, although the CCWD could assume this responsibility. Reproduction services, if significant, will be shopped before purchase and billed to the CCWD at cost.

BaseCamp will prepare the SCH Summary and Notice of Completion to accompany the submittal of the IS/MND to the State Clearinghouse. BaseCamp will upload the IS/MND to the State Clearinghouse CEQAnet web site as required and verify its acceptance by the Clearinghouse.

BaseCamp will file the Notice of Intent with the Calaveras County Clerk/Recorder. Copies of the IS/MND will be hand-delivered to any specified public review locations, such as the CCWD offices and the most centralized public library.

BaseCamp will mail or email the Notice of Intent to other recipients as specified in the Public Review Plan. Mailing and other distribution costs will be billed at cost.

b. NEPA Environmental Compliance

Initiation: BaseCamp's involvement in the CEQA compliance portion of the project will be initiated as described in Section 2.1 for CEQA compliance.

BaseCamp will act immediately upon authorization to identify the appropriate federal NEPA lead agency, expected to be FEMA at this point in time. BaseCamp will obtain the lead agency's available NEPA documentation guidelines and as soon as possible make an initial determination as to what level of NEPA review is required. At this time, the expectation is that this analysis will result in a determination that an Environmental Assessment will be the required level of NEPA environmental review. Preparation of the Environmental Assessment (EA) will follow most of the same steps as described for the CEQA process.

Draft EA: BaseCamp will compile an administrative review EA document and submit it in electronic form to CCWD and its engineers for administrative review, comment, revision, and then to the lead federal agency for its review, comment and approval for publication. BaseCamp will revise the EA in accordance with CCWD and lead agency comments. BaseCamp will coordinate with the federal lead agency to see that the public review needs for the EA are met, including posting of public notices and placement of review copies of the EA for public inspection.

BaseCamp will coordinate any required hard copy and electronic reproduction of the EA. Hard copy reproduction services, if significant, will be shopped before purchase and billed to the CCWD at cost.

Response to Comments, Decision Notice: BaseCamp will monitor the public and agency comments on the Draft EA as they are received and identify any substantive comments that will need to be considered and addressed before the federal lead agency can take action on the EA. BaseCamp will prepare draft responses

to any such comments for consideration by the lead agency and assist the agency in preparing the Decision Notice for the project.

Public Meeting Attendance: The BaseCamp project planner will attend up one CCWD Board meetings to present, answer questions, and discuss issues related to the EA. BaseCamp will attend additional meetings, as requested, on an extra cost basis.

2. COMPLETION SCHEDULE

BaseCamp proposes to complete the required CEQA and NEPA documentation within the following approximate timing; the actual schedule will need to be coordinated with the engineering and design schedule. The schedule assumes efficient turnaround of comments on administrative review documents.

Submit Administrative Draft IS/MND and EA	4 months
Public Review	1 month
Prepare Final IS/MND, Adoption Documents	1 month
CCWD Adoption	the following month

TASK 4: SURFACE HYDROLOGY ANALYSIS

Black Water will analyze the topographic and soil data and, using the storage criteria stipulated in the project RFP, and conduct a hydrology analysis within the project area, specifically within the areas of inundation and disturbance during construction. Using historical flow data provided by the District, the hydrology analysis will estimate the amount of water flowing through the improved facilities, factoring in precipitation, land cover, soil type, and topography. Black Water will perform preliminary calculations to support design decisions during Phase 2 of the project.

TASK 5: STRUCTURAL DESIGN

PWF Engineers will perform the following to support the development of the 30% and 60% design and specifications.

1. BOX CULVERT

Description: Design and detail a new 3’ high x 10’ wide x 75’ long cast-in-place concrete box culvert.

- Provide structural calculations and drawings (plans and details) for the culvert assuming up to 8’ of ground cover and light traffic.

2. SITE RETAINING WALLS

Description: Design and detail new site retaining walls for a grade differential not to exceed 6’ in height.

- Provide structural calculations and drawings (plans and details) for free-standing site retaining walls assuming CMU or cast-in-place concrete construction with the possibility of additional loading from traffic and adjacent lightly loaded footing surcharges.
- All structural calculations and drawings are to be stamped and signed by a licensed structural engineer, for conformance with the 2022 California Building Code. Calculations will be prepared as noted above in each description.
- All structural drawings to be prepared using AutoCAD. The following structural plan sheets are anticipated to be required for this project:

Box Culvert:	Foundation & Lid Plans	1 Sheet
	Structural Details, Notes & Specifications	4 Sheets
Site Retaining Walls:	Foundation Plan	1 Sheet
	Structural Details, Notes & Specifications	1 Sheets

- Respond to plan review comments.

Assumptions:

- Pelton Wylie + Fahrney Engineering's responsibility is limited to structural design only.
- Structural assistance will not be required for any miscellaneous structures not described.
- General Civil Engineering design is not included (i.e. grading/paving design, utility design, etc.).
- Geotechnical report is not included, to be provided by others. If the findings of a geotechnical report require a different foundation system other than a conventional spread footing system (i.e. drilled piers or post – tensioned mat slab, etc.) additional design fees may be required.
- Shop drawings are not included and shall be provided by the contractor, as required.
- Plan Set printing and reproduction costs are not included.
- Construction cost estimates will not be provided.
- Construction support services (submittal review, RFI responses, site visits during construction, as-built drawings, etc.) are not included.
- Additional services may be provided on a Time and Materials basis, or through a separate proposal.
- This contract may be terminated at any time by the client or PW+F, with or without cause, upon written notice. The client shall compensate PW+F for performance of services through the period prior to termination, plus reasonable termination expenses.

TASK 6: PRELIMINARY DESIGN REPORT

Upon completing record document research, preliminary calculations, and field data collection, Black Water will compile all gathered information and prepare a project preliminary design report. The preliminary design shall include a summary of the engineering analyses, and justification for project recommendations. The report will also include preliminary design drawings (65%) for recommended demolition, grades, earthwork quantities, alignments, capacities, structures, and connections to existing structures. After the Preliminary Design is approved by the District, Black Water shall proceed with the detailed design outlined in Phase 2.

Deliverables:

1. Preliminary Design Report with recommendations and drawings for the proposed project design. The will report shall address the following:
 - I. Recommendations regarding the proposed design.
 - II. Review of RFP and pre-project design requirements and recommendations concerning methods for reducing costs and/or alternative improvement solutions.
 - III. Recommend construction phasing.
 - IV. Preliminary engineering design.
 - V. Preliminary scaled design concept drawings.
 - VI. Preliminary cost estimate.

TASK 7: FINAL ENVIRONMENTAL DOCUMENTS

a. CEQA Environmental Compliance

Final IS/MND and Response to Comments: BaseCamp will monitor the public and agency comments on the Draft IS/MND as they are received and identify any substantive comments that will need to be considered and addressed before the IS/MND can be presented to the CCWD Board for adoption. BaseCamp will prepare draft responses to any such comments for consideration by the CCWD staff and revise those responses as required based on staff input.

BaseCamp will prepare a Final IS/MND for adoption by the CCWD Board in conjunction with project approval. The Final IS/MND will consist of an introduction, the summary of impacts and mitigation measures from the Public Review Draft IS/MND, public and agency comments received, proposed responses to those comments, and any required modifications to the IS/MND generated by those comments. An administrative

version of the Final IS/MND will be submitted to the CCWD for review and comment, and the document will be revised as required.

BaseCamp will assist the CCWD in the preparation of IS/MND adoption resolutions as requested.

Mitigation Monitoring Plan: BaseCamp will prepare a Mitigation Monitoring and Reporting Plan (MMRP) for the project. This document will also be submitted to the CCWD for administrative review and revised as required. The MMRP will be submitted electronically to CCWD staff for distribution to the CCWD Board.

Public Meeting Attendance: The BaseCamp project planner will attend up to two CCWD Board meetings to present, answer questions, and discuss issues related to the IS/MND. BaseCamp will attend additional meetings, as requested, on an extra cost basis.

b. Permit Acquisition

BaseCamp subcontracting biologist Geo Graening will assist in obtaining project permits from the resource management agencies, including the U.S. Army Corps of Engineers (Clean Water Act Section 404), the State Water Resources Control Board (Clean Water Act Section 401 Water Quality Certification) and the California Department of Fish and Wildlife (Lake and Streambed Alteration) permits. These services will include preparation of applications and supporting maps and materials and application submittal. A budget of 48 hours is allotted for this work.

TASK 8: PROJECT MANAGEMENT AND ADMINISTRATION

Black Water will actively manage the project, ensuring efficient planning, execution, and completion within scope, time, and budget constraints. The project management team will oversee all administrative functions, including procurement, scheduling, resource allocation, and risk management, to ensure seamless coordination between CCWD and the design team. Regular progress monitoring, stakeholder communication, and adherence to regulatory standards will be prioritized to mitigate risks and maintain project alignment. Through a combination of strategic oversight, effective team collaboration, and robust documentation, we aim to deliver the project to the highest standards of quality and safety while meeting all deadlines and financial targets.

PHASE 2

Following FEMA and District approval of Phase 1, Phase 2 involves finalizing engineering designs and preparing the project for construction. Tasks include advancing design plans to 90% and then to a bid-ready state. The consultant will also create a comprehensive project manual, finalize cost estimates, and address any revisions from the District. This phase concludes with the award of the construction contract, ensuring readiness for implementation. The timeline for this phase depends on the Phase 2 award date, with a projected completion within five months of commencement.

Phase 2: Schedule of Tasks

No.	Description	Start Week ¹	Duration (Weeks)	Completion ²
Task 1	90% Design	1	8	8
Task 2	Bid Ready PS&E	8	4	12
Task 3	Construction Contract Award	12	14	26

¹ From Phase 2 Award

² Weeks from Phase 2 Award

Black Water will prepare design drawings, details, and technical specifications for the advertising, bidding, construction, and installation of the project improvements. The design will also be adequate to apply for and receive all necessary governmental approvals (local zoning approval, permits, encroachments, lease negotiation, etc.).

TASK 1: 90% DESIGN

90% PLANS

With preliminary design review comments from the District, Black Water will prepare a detailed design PS&E for the proposed improvements. Plans shall be prepared using computer-aided design software (AutoCAD) for print to scale at 24"x36". The special conditions and technical specifications will utilize CCWD standards and acceptable materials and practices. Project front ends will be based on the 2018 edition of the Engineers Joint Contract Documents Committee Standards (EJCDC). The District will review the submitted PS&E, provide comments, and request revisions to ensure conformance with District standards and policies.

PLAN REVIEW AND CONSULTATION (CRAWFORD)

Crawford will provide consultation on geotechnical topics and perform a geotechnical review of 90% design level plans/specifications and provide comments to the design team.

TASK 2: BID READY PS&E

Black Water will receive the 90-percent submittal review comments from the District and conduct a project meeting to review the comments and finalize the design requirements. Final construction documents will be prepared and provided in electronic format to the District for bidding.

- Final for Construction Documents: Upon approval of the detailed design PS&E from the District, Black Water will prepare the final PS&E for bid. The final package shall include plans and technical specifications. A California Registered Professional Engineer shall sign and stamp the final plan submittal.

TASK 3: CONSTRUCTION CONTRACT AWARD

- Black Water will provide a conformed set of plans incorporating any changes addressed in addendums issued during the bid period.
- Black Water will provide clarifications and information about the PS&E package during the advertising and construction process.
- Assist the District in preparing any addenda to the PS&E during the advertisement and bid period.
- Review the contractor's shop drawings and other required submittals.
- Assist in reviewing Contractor change order requests and any redesign efforts leading up to change order preparation for the construction contract and during construction.
- Provide construction support (i.e., RFIs, submittals, and field changes) as needed.
- Prepare Record Drawings showing appropriate record information based on project annotated record documents received from Contractor and furnish such Record Drawings to the District.
- BaseCamp subcontracting biologist Geo Graening will provide pre-construction surveys, construction monitoring and related coordination and reporting as dictated by the species potentially present and agency permit requirements. A budget of 48 hours for this work is included in the cost proposal. This budget may need to be adjusted depending on the results of biological analysis and permitting.

Deliverables:

Conformed plans (electronic copy), RFI responses, submittal review documents, final as-built drawings in AutoCAD and PDF format, Record Drawings.

RESUMES



Proposal For Design, Engineering And Environmental Services
CalOES/FEMA Hazard Mitigation Grant Program Project
West Point Water Supply Drought Project
Calaveras County Water District Department of Public Works



education

M.S., Civil Engineering, University of Utah

B.S., Civil/Environmental Engineering, Utah State University

years with Black Water

12

years with others

21

registrations

Professional Engineer:
California #66645
Utah #295262
Texas #136672

affiliations

Water Environment Federation (WEF)
California Water Environment Association (CWEA)
American Society of Civil Engineers (ASCE)

Jeff Black has over 30 years of experience in public water and wastewater systems. Mr. Black's thorough understanding of the construction and operation of hydraulic systems is a valuable benefit to his clients and the operators of these facilities. Throughout his career, he has actively participated in planning, design, permitting, and construction oversight of various public and private water, wastewater, and water resources projects, pipe lines, pump stations, and treatment works. He is proficient in all aspects of project management, design, water and wastewater engineering, and system modeling.

Project Experience

Water Engineering

Ceres River Bluff Reservoir and Pumping Facility, City of Ceres - CA.

Project Manager. This project includes civil design modifications for an existing City well, connections to the future surface water delivery and distribution systems, design of pumping facilities, and a new water storage tank.

OID Parks Irrigation Project, City of Oakdale - CA.

Project Manager. This project consists of engineering design services for the diversion, pumping, and conveyance facilities used to provide Oakdale Irrigation District water to the City park irrigation system.

Reynolds Ranch Water Storage Tank Project, City of Lodi - CA.

Principal-in-Charge. The project is comprised of installing a one million-gallon water storage tank and booster pump station adjacent to the City's Well 23 site.

Well #14, City of Patterson - CA. Principal-in-Charge. The project includes well and infrastructure design, including the installation of a new well and pump station, pressure tank, metering, chemical system, well head piping, building construction for controls, storage, and equipment, site access/driveway, landscaping with irrigation, site drainage and well system drain to waste, site perimeter walls, associated piping, and electrical service and controls.

Mountain Creek School Water Tank Replacement - DWSRF, Pioneer Union School District - Somerset, CA.

Project Manager. Provided engineering services for the replacement of the Redwood Tank with a steel tank of the same size and in the same location. The tank site will be retrofitted with a booster station, control panels, and a disinfection system.

Potable Water System Upgrades, Sierra Park Water Company - Tuolumne County, CA. Principal-in-Charge. Funding application services and detailed design services for improvements to the Sierra Park Water System.

Colorado Water Main Project, City of Modesto - CA. Project Manager. Provided engineering, design, bid assistance, and engineering services during construction for a new water main line in Colorado Avenue. The water main provides water service to the lots fronting Colorado Avenue and connects to existing water mains along the alignment.

Del Rio Tank, Well, and Booster Pump Station Project, City of Modesto - CA. Project Manager. Mr. Black was the Project Manager for the preliminary design and final design of a new 1,000-gpm well, 250,000-gallon welded steel reservoir, and 1,750-gpm booster pumping station to serve the Del Rio community. The project involved the design of a new transmission line to convey water from the project site and connect to the existing water system. In addition to design oversight, Mr. Black was responsible for coordinating the efforts of multiple subconsultants, permitting agencies, and managing the budget and schedule.

North Stockton Pipeline Sodium Hypochlorite Injection System, City of Stockton - CA. Project Manager. This project consists of the construction of a new sodium hypochlorite injection system to raise the residual chlorine levels to 2.5 ppm in the existing City of Stockton distribution line at the North Stockton Pipeline Ammonia Facility (NSPAF) site.

Water System Condition Assessment, Sierra Park Water Company - Tuolumne County, CA. Principal-in-Charge. This project involved completing a water system condition assessment that identified any existing supply, storage, and distribution system deficiencies and compliance issues.

Consolidation Feasibility Study, Muller Mutual Water Company - Tuolumne, CA. Principal-in-Charge. Muller Mutual Water Company currently purchases water for the Muller and Mira Monte subdivisions through a master meter from Tuolumne Utilities District. Black Water was contracted to complete a feasibility study evaluating consolidation with the District to include preparation of plans, specifications, environmental documents, water service agreement, and cost estimate for the necessary improvements to consolidate the system.

Well 1A Improvements - DWSRF, City of Escalon - CA. Principal-in-Charge. Funding assistance and the design for the new Well 1A, site improvements to connect the new well to the existing site infrastructure, and demolition of on-site inactive granular activated carbon treatment filters and existing well.

Water Main Consolidation Improvements Project - DWSRF, Keyes Community Services District - Keyes, CA. Principal-in-Charge. The project consists of the design of approximately 13,000 ft of 8-inch, 10-inch and 12-inch water distribution main to extend service to out of service boundary mobile home parks with

non-compliant water systems with the Keyes CSD water system. The project included abandonment of 4 existing water and two (2) bore and jack crossings at irrigation facilities. Secured funding for the District for planning, design and construction of the project through the SWRCB DWSRF program. Provided bidding and advertisement and construction management and inspection services for construction of the project.

Water Master Plan, Santa Nella County Water District - Santa Nella, CA. Principal-in-Charge. Preparation of a water master plan to evaluate the existing water supply, treatment distribution and storage systems to ensure that SNCWD has adequate facilities to support future growth, goals, and policies. The water master plan will provide design guidelines for water infrastructure to serve future developments and guidelines for future policy documents.

Frank Raines Regional Park Feasibility Study, Stanislaus County - CA. Principal-in-Charge. This project consisted of the preparation of a feasibility study for infrastructure to supply water to the day-use area at Frank Raines Park from the existing water treatment plant.

Mountain House Well Replacement - DWSRF, Mountain House Elementary School District - Byron, CA. Principal-in-Charge. Assisted with the submission of an application package to secure funding for a new well.

Water Meter Improvement Project - DWSRF, Westley Community Services District - Westley, CA. Principal-in-Charge. Provided SRF application assistance for the installation of water meters on all service connections within the district. Also prepared the plans and specifications for the construction of the project.

Interstate Truck Center Arsenic Violation, Interstate Truck Center (Valley Peterbilt) - Turlock, CA. Project Manager. Preparation of a corrective action plan, plans, and specifications to correct the arsenic maximum contaminant level violation at the Interstate Truck Center's active well.

Century Mobile Home Park Consolidation with the City of Stockton, Century Mobile Home Park - Stockton, CA. Project Manager. Construction of a new water pipe, including but not limited to installation of fire hydrants, valves, asphalt and concrete replacement, and connection of the existing water distribution system.

2017 Water Treatment Upgrades, City of Angels - Angels Camp, CA. Project Manager. Providing engineering services for improvements to the filtration, disinfection, backwash, and other processes at the WTP.

Mobile Home Park Water Distribution System Improvements - DWSRF, Santa Nella County Water District - Santa Nella, CA. Principal-in-Charge. Design of approximately 12,000 ft of existing 4-inch through 8-inch water main to replace existing distribution system and install 350 new service laterals with remote-read water meters to existing residences and businesses. Secured funding for the District for planning, design and construction of the project through the SWRCB DWSRF program. Provided bidding and advertisement services for the construction project.

Waterford Water Master Plan Hydraulic Model and Recycled Water Feasibility Study, City of Waterford - CA. Project Engineer. Preparation of technical memorandums evaluating the existing water and wastewater systems for the City. This work included a hydraulic analysis of the water system, and a recycled water feasibility study, which required an evaluation of the wastewater treatment plant, and projections for infrastructure necessary to produce recycled water.

Water System Evaluation and Recommendations, City of Escalon - CA. Principal-in-Charge. Evaluated the performance of the City's water system, specifically at the Well #1 site, and provided recommendations for supply and capacity improvements.

Curtis Creek Elementary School Water System Consolidation Project - DWSRF, Curtis Creek Elementary School District - Sonora, CA. Principal-in-Charge. Secured planning funding through the SWRCB DWSRF program for the consolidation of Curtis Creek Elementary School's water system with the Tuolumne Utilities District water system to address system deficiencies that include inadequate source and storage capacity and no emergency fire protection. Completed engineering report and preliminary design for approximately 6,000 feet of distribution water main. Completed and submitted construction package for DWSRF program funding for the project.

Turner Academy Water Treatment Upgrades, Lodi Unified School District - Lodi, CA. Project Manager. Prepared a revised flow schematic for the Turner Academy Water Treatment Plant.

Water System Improvements for Domestic Water System at the Westley Migrant Center, Housing Authority of the County of Stanislaus - Westley, CA. Principal-in-Charge. Provided engineering design services for construction of the recommended improvements to refurbish Well #2 and the installation of a new pump and motor at Well #2.

Tulare Farms Water System Arsenic Treatment and Compliance, Tulare Farms, LLP - Manteca, CA. Project Manager. This project consisted of completing a permit amendment and project engineering report to construct an arsenic treatment system for the Tulare Farms water system.

On-Call Water Analyses, City of Tracy - CA. Principal-in-Charge. Black Water maintained and updated the hydraulic water model and conducted various analyses to verify the condition and capacity of the existing water system to serve planned development and connections to the water system.

JW Sierra Vista Water System, Kingdom Hall of Jehovah's Witnesses - Modesto, CA. Project Manager. Managed the preparation of the application for a well drilling permit that included a Drinking Water Source Assessment and a site plan establishing a well site control zone.

Ratto Bros. Water System Feasibility Study, Ratto Bros. Inc. - Modesto, CA. Project Manager. Completed a feasibility study to evaluate alternatives that would provide potable water that meets state nitrate regulations to the Ratto Bros. Facility.

Thornton Water System and Storage Facility Project, San Joaquin County - Thornton, CA. Managed the design and permitting for a new water storage tank and a booster pumping station to improve operating pressure and provide fire flow to the town of Thornton. Provided permitting and agency coordination, project management during engineering, assistance during the advertising and bidding phase, and engineering services during construction.

Meadow Well Pumping Plant and Main Extension, Twain Harte Community Services District - Twain Harte, CA. Project Manager. Prepared construction documents for equipping the new well with pumping equipment, including piping and valves to deliver potable water to the distribution system.

Refuge Level 2 Exchange with SLWD, San Luis Water District - Stevinson, CA. Project Manager. Provided groundwater and surface water sampling, weekly flow meter readings, groundwater surface elevation measurements, data analysis, and monthly reporting.

Galas Water Improvements - Modesto, CA.

Engineering design and specifications for a new domestic well, a 2.5-mgd water booster station, and 1.4 mg of water storage to serve the City of Modesto. Design included site work, pump station, reservoirs, disinfection system, and appurtenant piping and site work for connection to a treatment system for the removal of nitrates and manganese.

Gratton Elementary School Water Well - DWSRF, Gratton School District - Denair, CA. Principal-in-Charge. Design of new potable water well for Gratton Elementary School.

Lower Sacramento Road Waterline Project - Stockton, CA. Project Engineer. Design-build contract to construct a new 16-inch water transmission pipeline on Lower Sacramento Rd. The pipeline loops the City's existing water distribution system and connects Well 30 to the system. The project included design of the floodwall penetration at Bear Creek and attachment of the new pipeline to the Bear Creek Bridge.

Industrial Tank 13 and Booster Pumping Station - Modesto, CA. Project Manager for the preliminary and final design of a 4.0-mg pre-stressed concrete reservoir and 12-mgd booster pumping station. The preliminary design included a life-cycle cost analysis of various tank materials and construction methods. The facility includes a pump station control building, piping and connections to the City distribution system, disinfection equipment, surge control, and standby power facilities.

Laurel Avenue Booster Pump Station, Twain Harte Community Services District - Twain Harte, CA. Project Manager. Conducted a detail inspection to determine the most effective option to provide adequate domestic water pressure and flow to the residents of Cedar Pine Avenue.

Ebbetts Pass Reach 3A Water Pipeline Replacement Project, Calaveras County Water District - CA. Principal-in-Charge. Black Water was contracted to provide right-of-way acquisition for the Reach 3A project. Private owners and business owners were

contacted to acquire easements to relocate portions of a new waterline.

Cedar Pines Tank and Booster Pumping Station, Twain Harte Community Services District - Twain Harte, CA. Project Manager. Conducted an evaluation of system storage, flow, and available pressure for the Cedar Pines tank and booster pump station. The analysis included a hydraulic model of the existing system and calculations for three alternatives to replace and/or improve the existing facilities. The alternatives analyzed included provisions for a hydro-pneumatic tank, variable frequency drive motors, and fire pumps. A technical memorandum with calculations, details, and recommendations was provided to and approved by the District.

Smyrna Well and Pump Station Project - Ceres, CA. Project Manager responsible for the design of a new well site and pumping station. The project involved extensive coordination with the City staff, hydro geologist, and engineering team to provide a site assessment, test well, production well, and site design. The ultimate design included two wells each capable of producing 1,000 gpm. Other improvements included chlorination facilities, site piping to allow the isolation and blending of each well, standby power, and integration with the City's SCADA system.

North Stockton Pipelines Project - Stockton, CA. Design Engineer for over 35,000 feet of water and sewer pipeline ranging in size from 16 to 36-inches. The project included multiple segments of trenchless design for waterway, railroad, and roadway crossings. Permitting was coordinated with Caltrans, San Joaquin County, SWRCB, FWS, and the US Army Corps of Engineers.

Water Distribution and Storage System - Diablo Grande, CA. Prepared the water master plan, hydraulic model, and engineering design of the water distribution system that includes three pressure zones, two storage tanks, and water booster pumping stations.

Interim Flow Diversion, Metropolitan Water District of Salt Lake and Sandy - Sandy, UT. Design Engineer for a design-build project capturing 60 mgd of spring runoff from Little Cottonwood Creek that diverts flows into the Little Cottonwood treatment plant for treatment and potable distribution.



Benjamin D. Crawford, PE, GE Principal



Ben Crawford is the Founder and President of Crawford & Associates, Inc. He has managed complex projects throughout Northern California, including bridges, roadways, pavement rehabilitation, and transportation projects. Ben specializes in pavement rehabilitation projects and has stayed involved in the development and implementation of alternative pavement rehabilitation strategies. Ben has specific experience in pavement design and rehabilitation, including traditional mill and overlay; new pavement sections; cold in-place HMA recycling; full depth reclamation; cold foam recycling; and roller compacted concrete.

EDUCATION

B.S. Civil Engineering,
California Polytechnic
State University, San Luis
Obispo, 2002

REGISTRATIONS

Civil Engineer, CA #68457
Geotechnical Engineer,
CA #2861

ORGANIZATIONS

- Geoprofessional
Business Association
- American Public Works
Association
- Modesto Engineers Club
- American Council of
Engineering Companies
- County Engineers
Association of California

EXPERIENCE

At Crawford: 12 years
Total: 23 years

LOCATION

Sacramento, CA

REPRESENTATIVE PROJECTS

San Andreas WWTP, Calaveras County, CA

Ben was Principal in charge of a Geotechnical Report for the project, which presented a summary of surface/subsurface conditions and conclusions. Improvements included new aeration basins, multiple below ground pump stations, sludge drying beds, administration building, and clarifiers. Also prepared a Preliminary Geotechnical Report for the planning of three potential new reservoirs at the WWTP site and a baseline report for the construction of approximately 2 miles of outfall pipe. The additional storage capacity will be achieved through excavating soil/rock from the land immediately east of existing Pond D. The Crawford team reviewed existing geotechnical reports; geologic maps; performed seismic refraction lines; observed, logged, and sampled exploratory test pits; performed laboratory testing on test pit samples; and performed engineering analysis. Provided recommendations for excavation and pond slopes.

Rabbit Creek Culvert Repair Project, County of Amador, CA

For this project, Amador County proposed improvements to an existing culvert located between Lake Camanche and Rabbit Creek below Camanche Parkway. For Phase I of the project, Crawford prepared a Geotechnical memo, which provided geotechnical design considerations for performing trenchless culvert pipe installation methods. For Phase II of the project, Crawford provided soil compaction testing during construction of the project. Services included laboratory testing, aggregate base compaction testing, asphalt concrete observation and testing, culvert trench backfill compaction testing, and dam backfill compaction testing.

San Andreas WWTP Pond D Embankment Assessment, Calaveras County, CA

Principal-In-Charge of a Geotechnical Report to assess the proposed raised dam performance. Constructed analysis models based on current geometric conditions, design conditions, and proposed water surface. Performed a field exploration and testing, laboratory tests, and reviewed site seismicity to develop material properties for seepage and slope stability.

Jamestown Sanitary District Wastewater Treatment Facilities Project, Jamestown, Tuolumne County, CA

The project includes improvements to the existing WWTP site as well as the development of a new Quartz Reservoir site. Improvements to the existing site include a grit removal system; influent pump station; and equalization basin and sludge storage lagoon pond expansions. The new Quartz Reservoir site will include an activated sludge treatment system; blower/compressor building; administration office building; secondary chlorine contact concrete tank; tertiary chlorine contact tank; Tertiary filters; sodium hypochlorite building; sludge dewatering area; composting facilities to produce Class A biosolids; on-site wastewater pump station; three storm water detention basins; On-site piping; and access roads with asphalt pavement and aggregate base surfacing. Geotechnical recommendations grading, foundation design parameters, pavement and flatwork recommendations, utility trenches, and construction considerations.

Thornton WWTP Evaluation Project, Thornton, San Joaquin County, CA

Completed a Geotechnical Memorandum for the project. The existing effluent pond will be re-graded, divided into smaller ponds, and improved to minimize future erosion. To prepare the memo, the Crawford team observed two exploratory borings to characterize the subsurface conditions of the site; performed infiltration rate testing; and provided Grading recommendations, which included soil excavatability, clearing and degrading, scarification and compaction, and fill placement. Recommendations for interior and exterior pond slopes with rock slope protection (RSP) were provided.

Ione Water Treatment Plant, Amador Water Agency, Amador County, CA

Principal Geotechnical Engineer. Completed a Preliminary Geotechnical Memorandum to evaluate and provide geotechnical alternatives to stabilize and expand the WTP. The current site has limited space for an expansion, as well as settlement concerns that have resulted in pavement undulations and cracking, concrete cracking, a sheared bracket, and uneven water level within the clarifier. Recommendations include establishing benchmarks and annual monitoring of clarifier and filters, repairing system leaks, and improving loose soil for long-term site use. Expansion options would utilize retaining walls and would require top-down constructed walls due to soil conditions. Anticipated wall heights of 10 to 13 ft would provide 15 to 20 ft of additional lateral distance, with foundations extending approximately 10 to 25 ft below the wall.

Proposed Pit A Southwest Berm Slope Stability Project at Vernalis Plant- French Camp Project, Tracy, San Joaquin County, CA

Proposed project to excavate Proposed Pit A and convert the Existing Pit into a new settling pond. The Existing Pit is about 115 feet deep, and Proposed Pit A is planned to be excavated to an approximate depth of 150 feet. During this process, a berm (southwest berm) will eventually be created between the two pits. Prepared a Geotechnical Report to provide analysis, conclusions, and recommendations for the project. Drilled, logged, and sampled 1 exploratory boring on the proposed southwest berm. Provided Seepage and Slope Stability Analysis and recommendations for the Proposed Pit A southwest berm configuration and planning purposes.

City of Arcata WWTP Improvements, Arcata, Humboldt, CA

Proposed improvements include a headworks structure addition; rehabilitation of Primary Clarifier No. 2 structure; new electrical building; Allen Enhancement Wetland Outfall 002 flow split structures; Hauser Enhancement Wetland Pump Station structures; Oxidation Pond Transfer structure supported on spread; retrofit of the Chlorine Contact Basin with a new UV facility supported on the existing timber piles; 4,000 lineal ft of electrical duct bank with manholes and; 1,000 lineal ft of 16-inch outfall pipeline. The site is located next to Arcata Bay within marsh areas. Key project elements include proximity to fault lines, site location within a Tsunami Inundation Area, fluctuating groundwater levels encountered very close to the surface, location within a Special Flood Hazard Area, corrosive soil, and potential for soil liquefaction, seismic settlement, and seismic slope instability. Crawford calculated compressive resistance for drilled piers and recommended geotechnical factors of safety to resist uplift and compression loads when selecting pile length. Also provided recommendations for shallow mat foundations, site grading, utilities and pipeline trenches, and construction considerations.

Bear Creek Emergency Levee Assessment, City of Merced, CA

After the December 2022 to January 2023 storms hit California, the City of Merced called Crawford & Associates to assess several levee and bank failures along Bear Creek. Ben Crawford and John Wright walked the levee to inspect areas of failure, provided emergency repair options, and oversaw the repair/stabilization using mainly rock slope protection placement. Crawford crews worked around the clock to support the City of Merced during their flood fighting efforts. Crawford also presented to the California Office of Emergency Services and DWR to bring them up to speed about the conditions of the levees and banks. After the flood events, Crawford is continuing to work with the City to develop permanent repair options and costs for submittal to the state for funding. Fee: TBD

SBFCA Project Area B & D, Sutter Butte Flood Control Agency, CA

Ben was Principal Geotechnical Engineer for a verification drill logging and sampling program for the deep soil mixing (DSM) portions of the project. Oversaw the trench logging during the traditional slurry wall excavation and installation. Provided Geotechnical consulting during construction including review and summary the historical design boring logs with the new information obtained during construction. The Crawford team reviewed and compared the trench and boring logs with the samples collected in the field to ensure the logs were correct. The project is being completed within the guidelines of FEMA's Flood Mitigation Assistance Grant Program to provide 200-year level of protection for urban areas in the Sutter basin and 100-year level of protection for non-urban areas.

Southport Early Implementation Levee Rehabilitation, West Sacramento, CA

Ben planned and oversaw borrow site sampling and testing and prepared borrow site reports as various phases throughout the project. Ben performed independent Geotechnical Design review of the proposed recommendations and provided comments and recommendations to the Geotechnical Designers. Performed independent 2D steady state seepage and slope stability analysis at various cross section locations. Performed rapid drawdown analysis using Duncan, Wright and Wong methodology.

Well 17 Project for Linda County Water District, Linda County Water District, Marysville, Yuba County, CA

Principal Geotechnical Engineer: provided foundation recommendations for structures at two sites. The Well 17 site includes a below ground sump station, mist eliminator structure, and chemical & electrical control facility supported on concrete mat foundations; 25-foot diameter steel backwash tank on a shallow perimeter ring foundation; and ancillary structures/tanks including brine and fuel tanks, generator, pressurized filters, and transformer supported on shallow spread footings/concrete mat foundations. The Storage Tank Site includes an approx. 1-million-gallon, 100-foot diameter steel storage tank on perimeter ring foundations, interior column spread footings, a booster pump station supported on a concrete basin/vault, and booster pump ancillary piping and equipment. The project will also include approximate 1,000 linear feet of open cut water pipeline connecting the Well 17 and Storage Tank Site. Used SETTLE 3D Version 3.0 software to evaluate immediate and consolidation settlement for both the storage basin tank and pump station. Grading, pavement, and utility trench recommendations were also provided.



Christopher Trumbull, PE, GE, D. GE Senior Project Manager



Chris specializes in civil, geotechnical, and environmental consulting and project management services for a variety of clients throughout California and the western US. Chris also manages large and complex geotechnical projects, including transportation, public works, flood control, hydropower, essential facilities, military, correctional, power, industrial, ports, and other markets. Due to his past experience, he provides state-of-the-art quality assurance / quality control on his projects and stresses client communication as the most important factor in creating successful projects.

EDUCATION

Masters in Civil Engineering,
Geotechnical Emphasis,
San Jose State University,
1995

BS Civil Engineering, San
Jose State University, 1989

REGISTRATIONS

- Civil Engineer, CA #53710
- Geotechnical Engineer,
CA #2492

ORGANIZATIONS

- Association of State Dam
Safety Officials
- Member, American Society
of Civil Engineers
- Geoinstitute
- Academy of Geo-
Professionals

EXPERIENCE

At Crawford: 4 years

Total: 35 years

LOCATION

Sacramento, CA

REPRESENTATIVE PROJECTS

Veeder Hills Dam Supplemental Landslide Evaluation, Napa County, CA

Senior Project Manager. Completed a geotechnical memorandum for the southern slope of the spillway channel. The memo addresses the proposed spillway slope grading of and over identified landslide material. Crawford completed an exploratory boring from within the landslide and completed supplemental slope stability analysis using SLIDE.

Antelope Creek Flood Control Project, Placer County, CA

Senior Geotechnical Engineer responsible for performing the geotechnical subsurface investigations of two dam sites and one borrow site, the construction of which are intended increase protection to the 100-year flood level. Work included seepage and stability analyses; settlement and borrow evaluations; recommendations for dam design, cost estimating, and construction; as well as the review of construction documents and cost estimates.

MORE WATER Project, San Joaquin County, CA

Senior Geotechnical Engineer responsible for leading the geotechnical team performing a feasibility-level investigation for a proposed 300,000-acre-foot water storage and hydroelectric facility. The main earthen dam is proposed to be up to 145 feet in height and over 6,000 feet long. The auxiliary earthen dam will be over 4,000 feet long. The study included geotechnical explorations to 250 feet deep; laboratory testing (moisture/density, sieve analyses, direct shear, triaxial shear, consolidation), site characterization, geological studies, preliminary dam analyses (seepage, stability, settlement, deformation, filter compatibility, liquefaction triggering), and preparation of a feasibility-level geotechnical report.

Camino Penstock Stabilization - FERC Project No. 2101, El Dorado County, CA

Senior Geotechnical Engineer responsible for the geotechnical engineering design services needed to stabilize the area adjacent to the Camino Penstock, part of the Upper American River Project (UARP) to convey water from the Camino and Brush Creek reservoirs to the Camino Powerhouse. The penstock is 12 feet in diameter, 1500 feet long with 860 vertical feet of drop. Tasks included borehole data tabulation, inclinometer database review and parse four years of collected data, 3D model review and quality assurance, instrumentation, field observation and reporting, seismic refraction data collection and modeling.

Coyote Valley Dam Downstream Instrumentation, Mendocino County, CA

Senior Geotechnical Engineer responsible for leading the geotechnical team on this project for USACE's San Francisco District. Due to a concern of dam performance related to seepage and pore pressures in the downstream embankment foundation, an instrumentation program was developed. The program consisted of developing an exploration plan, drilling borings in eight locations on the face of the dam with piezometers installed at two elevations. The borings were drilled without fluid to depths of 49 to 141 feet and the instruments were installed at depths of 25 to 137 feet deep.

Adit 4 Tunnel Spoils Stabilization - FERC Project No. 2409, Calaveras County, CA

Senior Geotechnical Engineer responsible for leading the geotechnical team in an investigation of a failed fill slope. The investigation included borings, test pits, laboratory testing, and slope stability analyses. A geotechnical report was prepared that included conclusions and recommendations for slope repair using either engineered fill and or MSE walls, keyways, subdrainage, surface drainage, and erosion control. Quality assurance observation and testing during construction for keyway and subdrain construction, and engineered fill placement was performed.

PG&E Hamilton Branch Indian Ole Dam- Phase I - FERC Project No. 2107, Lassen County, CA

Senior Geotechnical Engineer responsible for geotechnical services to support the investigation of multiple leaks at PG&E's Indian Ole Dam at near 5000 feet in elevation. Initially provided recommendations for seepage instrumentation of the existing dam. Subsequent work included geotechnical investigations; geophysical surveys to include seismic refraction and electrical resistivity, hand excavation and sampling, and laboratory testing; installation of piezometers; and preparation of a geotechnical report summarizing findings, conclusion, and recommendations for repair work. Following report submittal and review, participated in group site visit, document review, development and presentation of alternatives; developed geotechnical parameters to be used for structural design and seepage control design; and provided limited design review and input for geotechnical exploration locations to be indicated on the drawings.

PG&E Belden Dam Spillway Drain and Panel Repair - FERC Project No. 2105, Placer County, CA

Senior Geotechnical Engineer assisting with geotechnical services to support the needed repairs. The left and right walls of the spillway chute are composed of 11 separate reinforced concrete panels and each pair of panels, facing each other, act as cantilever walls. Several of the wall panels along the chute's left side have deflected inward toward the centerline from their originally constructed positions. Geotechnical work for panel repair included field exploration, laboratory testing, characterization of subsurface materials, engineering analyses, development and presentation of geotechnical recommendations and criteria to be used for design and construction of repairs. In addition, during excavation to clean debris out of a weir/underdrain, an investigation was conducted to collect geotechnical data and develop/recommend the best course of action regarding removal of sediment from within the clogged drain. In a subsequent client request, provided an analysis of the multiple alternatives that included spillway chute wall panel permanent structural repairs and treatment of the known drain blockage as well as a review of the existing spillway drain, continued data capturing for the installed tilt meters, and recommendations for checking tension on the interim anchor cables.

Little Grass Valley Dam Access Tunnel Remediation near La Porte, Plumas County, CA

Senior Geotechnical Engineer responsible for performing geotechnical engineering services for this aging tunnel with severe spalling, rock fall, and water intrusion issues. The condition assessment recommended the design and construction of a shotcrete lining with drainage. Also performed observations for quality assurance during construction.

PG&E Poe Dam Toe Void Repairs - FERC Project No. 2107, Plumas County, CA

Senior Geotechnical Engineer responsible for providing geotechnical analysis to support the alternative concept development and detailed civil/structural repair design to mitigate erosion below the apron toe of the Poe Dam spillway. Work included field visits, general geologic mapping of the area combined with limited previous geotechnical data, and preparation of a memorandum providing geotechnical design recommendations to support analysis and design of the chosen alternative for repair to the spillway trailing edge apron below Poe Dam.

PG&E Rock Creek Dam Toe Void Repairs - FERC Project No. P-1962, Plumas County, CA

Senior Geotechnical Engineer responsible for leading the geotechnical team and conducting a document review of available geotechnical and geologic data. Traveled to the site to perform visual observations of geotechnical and geologic conditions, and developed a memorandum with geotechnical guidance and preliminary recommendations to be used for the alternative's analysis, preliminary design concepts, and cost estimating tasks in the subsequent phases of this high-priority project.

Success Dam Existing Conduit Retrofit Review, Tulare County, CA

Senior Geotechnical Engineer responsible for leading the geotechnical team conducting a review of design of reinforced concrete shell proposed to cover existing 12-ft diameter conduit below Success Dam. The concrete shell was meant to allow for the continued use of the existing conduit during construction of the new dam which is higher and placed on top of portions of the existing dam. The main geotechnical concerns during the review included capacity of proposed rock anchors, bearing and shear capacity of foundation materials, and hydrostatic uplift of the proposed shell.

City of Angels WWTP Upgrade Clear Well Removal, Calaveras County, CA

Senior Project Manager in charge of a Geotechnical Report to provide recommendations for the removal of existing structures and site preparations. The project includes a new 5-ft diameter tank, incline plate clarifiers, effluent tank, sludge tank, and press feed pumps, all supported on concrete pad foundations. Performed a field exploration and laboratory testing program and reviewed site seismicity to develop conclusions. Recommendations included removal and processing of on-site soil to reduce differential settlement, grading, fill placement, and compaction.

Jenny Lind Water System Tank A-B Transmission Pipeline, Valley Springs, Calaveras County, CA

Senior Project Manager in charge of a Geotechnical Report for ~22,000-lf of either Ductile Iron or PVC pipeline constructed using open trench construction. The report includes a review of site geology, a field exploration program with 10 exploratory test borings and seismic refraction study, results of laboratory testing, and seismic design parameters. Key geotechnical considerations associated with design and construction of this project include the excavatability of the dense residual soil and decomposed underlying rock. Estimated the Modulus of Soil Reaction Values and calculated thrust restraint.



Clay Worley, PE Project Manager



Clay Worley specializes in civil, geotechnical, and environmental consulting and project management services for a variety of clients throughout California and the western US. Clay Worley also manages large and complex geotechnical projects, including transportation, public works, flood control, hydropower, essential facilities, military, correctional, power, industrial, ports, and other markets. Due to his past experience, he provides state-of-the-art quality assurance / quality control on his projects and stresses client communication as the most important factor in creating successful projects.

EDUCATION

BS, Civil and Environmental Engineering, University of New Orleans, 2016

Graduate Certificate, Coastal Engineering, University of New Orleans, 2019

MS, Civil and Environmental Engineering, University of New Orleans, 2022

REGISTRATIONS

- Civil Engineer, LA 45424
- Civil Engineer, CA Applied
- Civil Engineer, NV 033299

ORGANIZATIONS

- Member, American Society of Civil Engineers
- Board Member, American Society of Civil Engineers – New Orleans Chapter, 2018-2023
- Geoinstitute

EXPERIENCE

At Crawford: Joined 2024

Total: 8 years

REPRESENTATIVE PROJECTS

Coastal Flood Protection Project, St. Tammany Parish, LA

Project Manager. Flood protection project in St. Tammany Parish, Louisiana. The project included several flood protection aspects including a proposed pump station, levees, T-walls, and steel sheet pile retaining walls. Services provided included design recommendations for levee foundation settlement, seepage potential evaluation for the levees and cutoff requirements below the T-walls, stability analyses for levees, T-walls, and pump station, and ultimate axial pile load capacities for support of the T-walls and pump station. Recommendations were provided to meet U.S. Army Corps of Engineers (USACE) and State of Louisiana Coastal Protection and Restoration Authority standards.

Bayou Barataria Bridge, State of Louisiana Department of Transportation and Development, Jefferson Parish, LA

Project Engineer. Proposed bridge and associated approach ramps in Jefferson Parish, Louisiana. Services provided included ultimate vertical pile load capacities, estimates of settlement, evaluations of punching shear for end bearing pile groups, and single-pile lateral load analyses for the bridge. Stability analyses considering the use of high strength geosynthetics and recommendations to support a surcharge program with wick drains to mitigate post-construction settlement and induce strength gain of the foundation soils of the approach ramps was also provided as well as recommendations for rigid and flexible pavements and general construction procedures.

Marathon Petroleum Company LP, Four Tanks, Garyville, LA

Project Manager. Four tanks at the Marathon Petroleum facility in Garyville, Louisiana ranging in size from 125 to 175 feet in diameter and 40 to 50 feet in height. Services provided include providing recommendations for ground support of the tanks considering different alternatives including ground improvement using controlled modulus columns and the use of wick drains with a staged hydrotest of the tank to induce settlement and strength gain of the soils. Considered placement of stone outside the perimeter of the tank to achieve acceptable factors of safety for bearing capacity. Provided estimated settlement and bearing capacities. Provided recommended hydrotest schedule along with recommended instrumentation including piezometers, inclinometers, and settlement points. General construction recommendations were also provided.

BASF Proposed Mississippi River Dock and Heavy Haul Crossing, Geismar, LA

Project Manager. Project consisted of a new dock to be supported on deep foundations in the river and on the riverbank before transitioning to shallow foundations crossing the levee and a heavy haul transport road for carrying industrial equipment offloading from a barge in the Mississippi River on to the riverbank and crossing the Mississippi River levee. All work was performed to support permit application with USACE. Estimates of vertical capacity, lateral capacity and settlement were provided for the dock deep foundations. Soil bearing values for the shallow foundations on the levee, heavy haul road, and a crane lift on the riverbank for construction of the dock were provided. Stability analyses were performed to ensure that USACE minimum required factors of safety for the levee and riverbank were met. Several different conditions were modeled for stability analyses including existing conditions, footings on levee, heavy haul transporters on the levee and riverbank, and a crane lift on the riverbank. Where minimum required factors of safety were not met, recommended solutions were provided. These solutions included degrading the riverbank to reduce driving forces where the crane load on the bank produced an unacceptable factor of safety and placing a temporary crushed stone stability berm adjacent to the levee for the heavy haul crossing. General construction recommendations were also provided.

Caeser's Casino, Hotel Tower Addition, New Orleans, LA

Project Engineer. A 12-story hotel addition adjacent to the existing casino in downtown New Orleans approximately 600 feet from the Mississippi River. Provided deep foundation recommendations for support of the hotel including estimated pile capacities and settlement for piles up to 275 feet long. Also provided analyses and recommendations for 25-ft construction excavation at the base of the tower including estimated maximum moments, brace force, and required tip embedment for a double braced sheetpile retaining wall and potential seepage issues at the base of the excavation considering the water level and hydraulic gradient from the Mississippi River. General construction recommendations were also provided.



W. Eric Nichols, PG, CEG, PE

Senior Project Manager



Eric has 34 years of experience with an emphasis in transportation related projects. Project types include bridges, interchanges, roadway improvements, buildings, storm damage and slide repair, parks, hydraulic projects, levees, and pile observation projects. Eric has specific experience in shallow foundation and deep foundation design, including large Cast-In-Steel-Shell (CISS) piles, Cast-In-Drilled-Hole (CIDH) piles, driven concrete and steel piles, settlement analysis, construction/monitoring for driven and drilled piles, vibrating/oscillating casing, groundwater control, and CIDH pile load testing criteria.

EDUCATION

BS. Geological Engineering, University of Nevada, Reno, 1990

REGISTRATIONS

- Civil Engineer, CA #82103
- Certified Engineering Geologist, CA #2229
- Professional Geologist, CA #7142

ORGANIZATIONS

- Association of Engineering and Environmental Geologists
- American Society of Civil Engineers
- Geo-Institute
- American Public Works Association

EXPERIENCE

At Crawford: 8 years

Total: 34 years

LOCATION

Sacramento, CA

REPRESENTATIVE PROJECTS

Upper York Creek Dam Removal Project, Napa County, CA

Geotechnical investigation for channel ecosystem restoration, including fish passage, habitat and fluvial processes. Project issues included removal of a 100+ year old, 40 ft high earth dam, with near complete sedimentation behind the dam. The project involved sediment transport and evaluation, slope stability analyses, spillway stability supporting a county road, and active landslide partially displacing the road and spillway. Project coordination involved numerous state and federal agencies, including USACE, DF&G, RWQCB, DSOD, NMFS, NOAA Fisheries, US Fish & Wildlife Services, Napa County and St. Helena.

Lake Emily Dam, Mendocino County, CA

Geotechnical investigation of the existing 35 ft high, earth-fill dam for installation of a permanent, inflatable spillway gate and 15 ft raise in crest elevation. The dam is located less than one mile from the active Maacama Fault Zone, and contains a landslide at the left abutment. Project geotechnical considerations included materials strengths, groundwater, seismic design, slope stability and liquefaction evaluation.

Bell Canyon Dam, Napa County, CA

Project Manager for a geotechnical investigation to evaluate the seismic stability of the dam and install new (replacement) piezometers. Bell Canyon Dam is a zoned earth fill dam about 95 feet high, with a crest length of about 420 feet and crest width about 20 feet. Services for this project included drilling, logging and sampling seven borings, installing six vibrating-wire piezometers, one open-well piezometer, laboratory testing, evaluation of seismic ground motions, slope stability analysis, and recommendations for increased stability.

San Francisquito Creek Bank Protection Project, Menlo Park, San Mateo County, CA

Completed a geotechnical investigation and provided recommendations for design of a 20-22 ft high reinforced earth wall along a 100±ft section of channel bank to provide permanent erosion protection. The project is located within an environmentally sensitive area and slope protection options considered environmental impacts, including aesthetics and riparian habitat.

South Pit Reservoir, Hudson Vineyards, Napa County, CA

Geotechnical investigation for design of a synthetically lined, 50 acre-foot capacity reservoir for an off-stream agricultural facility. The investigation included site seismicity evaluation, slope stability analysis, and provided recommendations for earthwork, fill and compaction, drainage, reservoir cuts, liner placement, and erosion control. Also provided construction observation and testing services for the toe key excavation, grading of compacted embankment, and stability review of the interior cuts for the reservoir.

Bear Creek Emergency Levee Assessment, , City of Merced, Merced County CA

After the December 2022 to January 2023 storms hit California, the City of Merced called Crawford & Associates to assess several levee and bank failures along Bear Creek. Eric walked the levee to inspect areas of failure, provided emergency repair options, and oversaw the repair/stabilization using mainly rock slope protection placement. Crawford crews worked around the clock to support the City of Merced during their flood fighting efforts. Crawford also presented to the California Office of Emergency Services and DWR to bring them up to speed about the conditions of the levees and banks. After the flood events, Crawford is continuing to work with the City to develop permanent repair options and costs for submittal to the state for funding. Fee: TBD

Non-Urban Levee Evaluation (NULE) Study, Northern CA

Completed levee evaluations at over one hundred sites along the Feather, Bear and Sacramento river systems (extending from Wheatland in Placer County to the Sacramento River Delta near Rio Vista) to assess levee conditions such as slope geometry, seepage, vegetation, penetrations, etc. and help prepare preliminary alternatives and associated cost estimates for levee repair improvements. This study was part of a Department of Water Resources (DWR) evaluation that included of over 1,000 miles of levee throughout northern and central CA.

Sherman Island Levee, Sacramento County, CA

Completed oversight for the evaluation and slope stability analysis for planned levee construction in the Scour Lake area of Sherman Island. The Sherman Island levee is underlain by thick deposits of peat and partial fill was placed in the Scour Lake area between 2008 and 2011. Evaluation included review of boring, laboratory test results, piezometer, and inclinometer data to develop strength and unit weight parameters for end-of-construction and long-term conditions for the proposed levee improvements.

Feather River West Levee Improvements (Segment 7), Sutter County, CA

Assisted with various components during completion the Draft Geotechnical Design Recommendations Report for approximately 5.8 miles of planned Feather River West Levee Improvements under a Sutter Butte Flood Control Agency project. These components included the subsurface exploration program; strength parameter evaluations; seismic vulnerability assessment; historic levee construction, performance and improvement history; transverse section preparation, reach selection, and site geology and geomorphology. Also managed and provided oversight of field exploration and laboratory testing associated with the borrow site evaluation.

Star Bend Setback Levee, Sutter County, CA

Project Manager of a geotechnical investigation for a 3,600-foot-long setback levee on the west side of the Feather River. Responsibilities included oversight of field exploration and laboratory testing, slope stability/settlement analysis, seismic evaluation, and report preparation. The geotechnical report included recommendations for seepage mitigation options, including slurry cut-off wall, seepage berm and pressure relief wells in accordance with current US Corps of Engineers design criteria.

Southport EIP Levee Improvement Project, West Sacramento, CA

Performed subsurface exploration logging, past levee performance evaluation, and seismic vulnerability evaluation review for the Southport Early Implementation Program (EIP) levee improvement project for the City of West Sacramento.

Maxwell Wastewater Treatment Plant Project, Maxwell, Colusa County, CA

Project Manager for modifications and upgrades to the existing wastewater treatment plant that included two aeration ponds, two facultative lagoons, a new off-site 20-acre storage pond, about 7,500 lineal feet of new force main, and installation of monitoring wells. Provided recommendations for earthwork grading, pond/lagoon design considerations for low permeability earth liner and settlement, and force main design considerations/criteria that included excavation, mitigation of loose soft soil, trench backfill, directional drilling and jack-and-bore methods, pit bottom support, and thrust wall/block design. Also provided construction observation services.

Windsor Wastewater Treatment Plant Improvements, Sonoma County, CA

Completed a geotechnical report to provide recommendations for modifications/improvements to the existing wastewater treatment plant that included an ultraviolet disinfection unit, a replacement railroad "flatcar" bridge and modifications to Pond 6 with borrow evaluation. Geotechnical services included review of in-house data, test borings, laboratory testing, evaluations/analysis and report preparation. Recommendations included earthwork grading, spread footing foundations, slab-on-grade, cast-in-drilled hole piles (bridge replacement), lateral soil pressures, seismic parameters, pond design considerations for low permeability "blanket", embankment foundation, materials placement and erosion considerations.

Ceres River Bluff Reservoir and Pumping Facility, City of Ceres, CA

Principal Project Manager for a Geotechnical Report for a water tank facility to include a three-million gallon, 132 ft diameter potable concrete water storage tank founded on a shallow perimeter ring foundation with a domed roof. The tank is planned to be buried below finished grade about 14 ft. The facility will also include a booster pump supported on a shallow mat foundation about 25 ft by 40 ft, anticipated cuts and fills less than 1 ft outside of the tank foundation area, pavement improvements, and associated utilities. The report provides recommendations for grading, utility trenches, the concrete water storage tank foundation, the booster pump mat foundation, lateral earth pressures, and pavement.

Railroad Flat Road Bridge at Esperanza Creek, Calaveras County, CA

Project Manager for a bridge project to rehabilitate/replace an existing 44-foot-long by 20-foot-wide single-span structure with a concrete deck supported on concrete wall abutments. Bridge replacement will consist of a single-span structure on similar alignment to the existing bridge and at least 38 feet wide. Geotechnical services included subsurface exploration, laboratory testing, and engineering analysis for the Foundation Report. Foundation recommendations consist of spread footings established within underlying metasedimentary rock (schist and slate). Also completed R-value tests and provided pavement design recommendations for new transitional roadway improvements.



Johnathan J. Wright, PE, GE Project Manager



Johnathan has over 10 years of experience associated with levee safety design, construction, and risk assessments of various levee flood control projects, and geotechnical evaluation and design of various projects related to transit and rail, bridge foundations, pavement rehabilitation, roadway design, storm damage and landslide sites, and construction services. He has supervised and managed large subsurface exploration and laboratory programs, and has performed and reviewed site-specific analyses including bearing and lateral capacity, settlement, seepage and slope stability evaluation, and seismic evaluation. He also served as Acting Levee Safety Program Manager for USACE.

EDUCATION

University of California, Los Angeles

B.S. Civil Engineering, 2011

M.S. Civil Engineering, 2012

REGISTRATIONS

Civil Engineer, CA #82806

Geotechnical Engineer, CA #3148

ORGANIZATIONS

- ASCE, American Society of Civil Engineers
- Geo-Institute
- APWA - American Public Works Association

EXPERIENCE

At Crawford: 6 years

Total: 11 years

LOCATION

Sacramento, CA

REPRESENTATIVE PROJECTS

Lower San Joaquin Levee Improvement Project Reach TS_30_L, Stockton, CA

The intent of the overall Lower San Joaquin Levee Improvement project is to reduce flood risk in the Stockton metropolitan area by improving existing levees or building new setback levees. Reach TS_30_L is about a mile-long section of the overall project, and the Lower San Joaquin Feasibility Report suggested that levee improvements for Reach TS_30_L could include levee reshaping, cutoff walls, and erosion protection. Johnathan was the geotechnical design lead for the overall project and for the U.S. Army Corps of Engineers. Johnathan managed the geotechnical evaluation and design from 0 to 65% level design for Reach TS_30_L, which included managing the subsurface investigation program that consisted of 22 CPTs and 11 borings, assigning laboratory tests, performing geotechnical evaluation and analyses, and preparing a 35% and 65% Geotechnical Basis of Design Report and Geotechnical Data Report. The reports summarized the 35% and 65% design level geotechnical recommendations and summarized subsurface soil conditions, respectively.

Lower San Joaquin Levee Improvement Project, Stockton, CA

Johnathan performed the Semi-Quantitative Risk Assessment of the Lower San Joaquin Levee Improvement Project, which included working with a USACE cadre to assess various potential failure modes within the levee system.

Bear River Setback Levee, Sutter County, CA

Project Manager. Oversaw the Trench Logging team for .5 miles of logging for open trench cutoff wall sections. Reviewed and approved Dailey Field Reports and served as Crawford's representative to the client.

SBFCA Feather River Levee Project Area B & D, Sutter County, CA

Project Engineer for a verification drill logging and sampling program for the deep soil mixing (DSM) portions of the project. Oversaw the trench logging during the traditional slurry wall excavation and installation. Provided Geotechnical consulting during construction including review and summary the historical design boring logs with the new information obtained during construction. The Crawford team reviewed and compared the trench and boring logs with the samples collected in the field to ensure the logs were correct. The project is being completed within the guidelines of FEMA's Flood Mitigation Assistance Grant Program to provide 200-year level of protection for urban areas in the Sutter basin and 100-year level of protection for non-urban areas.

Bear Creek Emergency Levee Assessment, City of Merced, CA

Project Manager. After the December 2022 to January 2023 storms hit California, the City of Merced called Crawford & Associates to assess several levee and bank failures along Bear Creek. Ben Crawford and John Wright walked the levee to inspect areas of failure, provided emergency repair options, and oversaw the repair/stabilization using mainly rock slope protection placement. Crawford crews worked around the clock to support the City of Merced during their flood fighting efforts. Crawford also presented to the California Office of Emergency Services and DWR to bring them up to speed about the conditions of the levees and banks. After the flood events, Crawford is continuing to work with the City to develop permanent repair options and costs for submittal to the state for funding.

USACE Section 408 Program, Multiple Projects, Central Valley, CA

Senior Engineer. Johnathan was the main reviewer for the U.S. Army Corps of Engineers of "Major" 408 projects within the Central Valley. Johnathan was involved in the USACE 408 review process during either the design, construction, and/or post-construction of various "Major" 408 projects, including: RD17 Phase 3 Levee Seepage Repair Project, TRRIA WPIC, and RD 3 Grand Island.

Rabbit Creek Culvert Repair Project, Amador County, CA

For this project, Amador County proposed improvements to an existing culvert located between Lake Camanche and Rabbit Creek below Camanche Parkway. For Phase I of the project, Johnathan assisted in preparation of a Geotechnical memo to provide a description of the subsurface conditions and geotechnical considerations for design and construction. Johnathan drilled, logged, and sampled areas within the existing embankment and used the results to provide a summary of the soil, rock, and groundwater conditions. Geotechnical design considerations were then provided for performing trenchless culvert pipe installation methods. For Phase II of the project, Johnathan prepared a proposal to provide soil compaction testing during construction of the project. The proposal included laboratory testing, aggregate base compaction testing, asphalt concrete observation and testing, culvert trench backfill compaction testing, and dam backfill compaction testing. Our field technicians prepared daily field reports with a description of the daily events and test results.

Fortuna WWTP - Flood Protection Berm and Pump Station, Humboldt County, CA

Project engineer for a geotechnical report. The project involves constructing a flood protection berm around the WWTP and includes raising existing berms on the east and south sides and constructing a new berm along the north side. Based on laboratory testing, on-site stockpiled fill is suitable for berm construction, provided it is free of debris and vegetation. The north berm should be constructed at a 2 to 1 slope or flatter, while the south berm may require geogrid reinforcement for steeper slopes. Potential settlement under the north berm is estimated to be 3 to 4 inches. Overbuilding the berm by 6 inches is recommended to accommodate settlement. On-site soils are not suitable for structure backfill, and approved granular import is recommended.

Proposed Pit A - Southwest Berm Slope Stability, Tracy, San Joaquin County, CA

Project Manager for a Geotechnical Report to assess the stability of a proposed southwest berm at the Granite Construction - Vernalis Plant. The report analyzes the geological and subsurface conditions of the site, including soil properties and seismic parameters. The study involved drilling an exploratory boring, conducting laboratory tests on soil samples, and reviewing existing geotechnical data. Based on the analysis, three berm configurations (Case A, Case B, and Case C) were evaluated for stability under static and pseudo-static conditions. Case B, which includes two benches and varying slope angles, demonstrated acceptable factors of safety for both static and pseudo-static conditions. The analysis suggests that the berm's stability is influenced by the presence of clay layers, particularly a thick clay layer identified in previous studies.

Fortuna WWTP - Flood Protection Berm and Pump Station, Fortuna, Humboldt, CA

Project engineer for a geotechnical report. The project involves constructing a flood protection berm around the WWTP and includes raising existing berms on the east and south sides and constructing a new berm along the north side. Based on laboratory testing, on-site stockpiled fill is suitable for berm construction, provided it is free of debris and vegetation. The north berm should be constructed at a 2 to 1 slope or flatter, while the south berm may require geogrid reinforcement for steeper slopes. Potential settlement under the north berm is estimated to be 3 to 4 inches. Overbuilding the berm by 6 inches is recommended to accommodate settlement. On-site soils are not suitable for structure backfill, and approved granular import is recommended.

San Andreas WWTP Upgrade Project, Calaveras County, CA

Project Engineer. The project aims to upgrade the wastewater treatment facility by constructing new vaults, including an influent valve vault and two effluent valve vaults. Completed a Geotechnical investigation, which involved drilling exploratory borings, excavating test pits, and performing laboratory tests on soil and rock samples. The report provides recommendations for foundation design, including the use of mat foundations for the new Influent Valve Vault and effluent valve vaults. Lateral earth pressures are provided for both static and seismic design conditions. Grading recommendations include overexcavation and recompaction at the effluent valve vaults to mitigate liquefaction potential. The report also includes recommendations for pavement design, utility trench excavation, and construction considerations such as dewatering and shoring.

San Andreas WWTP Pond D, Calaveras County, CA

Project Engineer. Prepared a geotechnical report for the expansion of Pond D to accommodate future wastewater treatment service. The expansion will involve excavating soil and rock from the land immediately east of the existing Pond D to increase storage capacity. Observed and logged seven exploratory test pits and four sets of seismic refraction lines, described soil conditions, and performed laboratory testing to develop conclusions. The report concluded that the pond expansion is feasible from a geotechnical standpoint.

education
B.S., Civil Engineering, California State University, Fresno
years with Black Water
2
years with others
31
registrations
Professional Engineer: California #57769 Nevada #14810 Idaho #18597
California Grade D4 Water Distribution System Operator #23834
California Grade T2 Water Treatment Operator #32692

Nick Zaninovich has over 30 years of well-diversified experience in overall aspects of planning, design, operations, environmental, construction, supervisory, budget, and management of water and public infrastructure projects. With work experience in public agencies spanning over 21 years, he is well versed in public policy and administration. His extensive design and project management experience also stems from his work in the consulting sector for a wide array of public and private projects related to water and sewer system design and operations. As a California Grade D4 water distribution system operator and Grade T2 water treatment operator, he has a thorough understanding of water systems and how they work. Mr. Zaninovich's range of experience in the water and wastewater industry allows him to effectively lead projects and multifaceted teams to timely and cost-effective project completions.

Project Experience

Water Engineering

Sawmill and Wallace Tank Replacements, Calaveras County Water District - Calaveras County, CA. Project Manager. Replaced aging water storage infrastructure in Arnold and Wallace, improving water quality, system resilience, and compliance with modern regulatory standards. The Sawmill Tank project replaces a deteriorating 3.0 MG welded steel tank with two 500,000-gallon bolted steel tanks to improve water quality, operational flexibility, and compliance with seismic standards. The Wallace Tank project replaces a 224,000-gallon tank with a 230,000-gallon bolted steel tank to enhance reliability and support future growth.

Santa Nella/Volta Water Quality Improvement Project - DWSRF, Santa Nella County Water District - Merced County, CA. Project Engineer. The project involves improvements to the water supply facilities of SNCWD and Volta Community Services District and consolidation of the two systems. Improvements include a new well, trunk lines delivering water to the distribution systems, water storage, blending, and pumping facilities, and distribution improvements to the VCSD system. Conducted quality control reviews of the contract documents and plan set.

Water System Treatment Plant, Ratto Bros., Inc. - Modesto, CA. Project Engineer. Ratto Bros. operates a 61-acre facility that includes offices, shops, an old barn, solar array, and a cooling and cold storage facility. A potable and non-potable water system supply the domestic and industrial process water system. Provided engineering services for the design of potable and non-potable water treatment systems to remove arsenic and nitrates.

Cressey Elementary School Water System Improvements, Cressey Elementary School - Cressey, CA. Project Engineer. This project involved a feasibility study and design efforts to address TCP contamination in the school's water system. Assisted the school through funding applications, permitting, and environmental compliance to meet state and federal drinking water standards.

Merced Irrigation District Grant Feasibility Study, Mariposa County - CA. Project Manager. Conducting a scoping, and/or feasibility study, to evaluate potential beneficial uses within Mariposa County for allocated water supply from Merced Irrigation District.

Water Storage and Pumping Facilities at Under Canvas Yosemite, Under Canvas - Tuolumne County, CA. Project Manager. Providing detailed design and management services for two potable water well sites to support potable water needs at the Under Canvas Yosemite site, as well as fire storage and hydropneumatic tanks. Key improvements include site grading, well head upgrades, safety features, and disinfection systems.

Natural Disaster Water Storage Mitigation Project, Mariposa County - CA. Project Manager. Preparation of construction documents including plans and specifications for three 250,000-gallon potable water storage tanks located at Hornitos, Red Cloud Park, and Woodland Park. Two of these sites also include fire booster pumps.

Surface Water Reliability and WTP Modernization Project, Lake Don Pedro Community Services District - Mariposa and Tuolumne Counties, CA. Project Engineer. Providing engineering services to address the aging infrastructure and improve surface water reliability for the LDPCSD. The project includes evaluating and designing solutions to modernize the district's water treatment plant and associated facilities, ensuring resilience during drought conditions and addressing reliability concerns. Conducted quality control review of the engineering report.

Terra Vi Yosemite Lodge Water and Wastewater Systems Preliminary Design, Hansji Corporation - Groveland, CA. Project Manager. Developed water and wastewater system designs for the Terra Vi Lodge project, including supply assessments, treatment evaluations, and cost-effective engineering solutions to support sustainable resort operations.

Coulterville Water System Improvements Project, Mariposa County - CA. Project Manager. This project consists of the planning, design, and construction documents for a new community water well and dedicated transmission line to existing and proposed new steel water tanks for the Coulterville community.

Derrick Booster Pump Station and Northwest Reservoir Upgrades, City of Coalinga - CA. Project Manager. Report preparation describing recommended improvements to the Derrick Booster Pump Station and Northwest Reservoir with the goal of reducing system failures and ensuring reliable operation for at least 30 years.

San Luis WTP Facility Assessment and Conceptual Design, California Department of Water Resources - Gustine, CA. Project Manager. Preparation of an assessment report to evaluate, identify, and recommend improvements to the existing water treatment plant serving the San Luis Field Division Operations and Maintenance facility. The Division has been experiencing water quality exceedances of the THM MCL and the facility and equipment are approaching or at the end of their useful life.

Water System Improvements, New Auberry Water Association - Auberry, CA. Project Engineer. Providing engineering services for the construction design package to include contract documents, plans, and technical specifications for project improvements to the existing water system. Improvements include replacing transmission pipelines, upgrading well pumps, increasing water storage volume, and assisting with CEQA studies and reports.



education

B.S., Civil Engineering, California State University - Fresno

years with Black Water

1

years with others

4

registrations

*Professional Engineer:
California #96883*

Angel Mariscal has over five years of comprehensive engineering experience in various design projects. He is proficient in utilizing AutoCAD and sanitary and septic analysis software for a wide range of applications, including land development, utility design, grading, project layout, storm drain systems, and water and wastewater management. Mr. Mariscal's technical expertise includes the preparation of detailed technical reports for potable and non-potable water applications, permit amendments, and municipal utility projects. He has a strong background in the design and preparation of engineering drawings, technical specifications, and cost estimates. Dedicated to providing high-quality deliverables, Mr. Mariscal is adept at understanding and addressing client needs to ensure optimal project solutions.

Project Experience

Water Engineering

Well 1A Improvements - DWSRF, City of Escalon - CA. Project Engineer. This project consisted of funding assistance and the design for the new Well 1A, site improvements to connect the new well to the existing site infrastructure, and demolition of on-site inactive granular activated carbon treatment filters and existing well. Provided engineering services during construction including preparation of the permit amendment documents.

Colonial Heights Maintenance District Water Main Replacement - Phase I, County of San Joaquin - Stockton, CA. Project Engineer. This project consists of the preparation of plans, specifications, and engineer's estimate for the replacement of approximately 20,500 LF of water mains

ranging from 4- to 8-inches in diameter. Assisting with the improvement plans and DDW variance waiver.

Paradise-Grimes-Ohio Area Strengthen and Replace Water Mains, City of Modesto - CA. Project Engineer. This project involves the replacement of approximately 19,350-LF of aging water distribution pipes with new water mains in a primarily rural residential area with numerous agricultural parcels fronting the project alignments. Responsibilities include preparation of design documents, including the plans, specifications, and estimates.

224 MHP Drinking Water Long-Term Solution Project, Self-Help Enterprises - Madera County, CA. Project Engineer. Preparation of an engineering report to address concentration levels of uranium, gross alpha, and arsenic exceeding the maximum contaminant level set by the SWRCB DDW.

Morada Acres MD Water System Rehabilitation Project, San Joaquin County Public Works - CA. Project Engineer. Design and preparation of plans, specifications, and estimate for the removal and replacement of a 3,100-gallon hydropneumatic tank, and piping and appurtenances from a well to the tank, and from the tank to the distribution system.

V&P Trailer Court Drinking Water Planning Project, Self-Help Enterprises - Stockton, CA. Project Engineer. Providing engineer services including preparation of an engineering report to recommend a project to address the arsenic water quality compliance and groundwater source reliability issues.

Pike Ranch Mutual Water Company Drinking Water Planning Project, Self-Help Enterprises - Madera County, CA. Project Engineer. Providing engineering services to address elevated uranium levels in the water system. Responsible for the preparation of the engineering report.

MD-42 Still Meadow Drinking Water Project, Self-Help Enterprises - Madera County, CA. Project Engineer. This project consists of the preparation of an engineering report to identify system deficiencies and evaluate alternative improvements to provide the community with safe and reliable drinking water. The existing water system has concentrations of arsenic and uranium in exceedance of the SWRCB DDW's maximum contaminant level. Additionally, the system is currently undersized and unable to meet the capacity requirements set forth by the 2022 California Fire Code. The report recommended consolidation with a nearby community. Responsible for the preparation of the report.

Well 3 Replacement, City of Oakdale - CA. Assistant Engineer. The existing well was found to have extensive structural damage, significant mineral encrustation, and 1,2,3-TCP presence exceeding the State's MCL. The project consisted of the evaluation of a potential site for a new well, assistance with well design, construction oversight and analysis, preparation of well site construction documents for bidding, and preparation of documents for obtaining a water system permit amendment.

Traina Well Site, City of Patterson - CA. Assistant Engineer. Conducted an analysis of the acquisition of an existing well to supplement the potable water supply for the City. The project involved preparing a technical memorandum summarizing improvements to incorporate the well into the water system, preparation of a Drinking Water Source Assessment (DWSAP) for the existing well, and determining the permit amendment requirements.

CVMWC Water System Improvements, Cedar Valley Mutual Water Company - Oakhurst, CA. Assistant Engineer. Prepared a feasibility study to evaluate the existing water system and identify system deficiencies and evaluate improvements to provide the CVMWC community with safe and reliable drinking water. The study recommended construction of a new production well. Black Water is currently providing engineering services for the design and bidding assistance of the test well. Responsibilities included assisting with the preparation of the contract documents for bidding the construction of the test well.



education

B.S., Civil and Environmental Engineering, University of California - Davis

years with Black Water

1

years with others

5

registrations

*Professional Engineer:
California #94930*

affiliations

Modesto Engineers Club

Edgar Torres has six years of engineering experience of various public and private design projects. He is proficient in utilizing AutoCAD for a diverse range of projects, including dry/wet utilities, drainage systems, erosion control, striping, typography, demolition, and grading. Mr. Torres has a strong background in the design and preparation of drawings, technical specifications, and cost estimates for municipal projects, specifically with water, sewer, and storm drain systems. He has a proven track record of consistently delivering high-quality work and preparing detailed technical reports that offer expertise and recommendations. With four years of experience working for a public agency, Mr. Torres has a thorough understanding of local, state, and federal regulatory requirements and guidelines governing engineering projects. Excelling in project management, Mr. Torres oversees projects from inception to completion while ensuring adherence to timelines, budgets, and regulatory requirements.

Project Experience

Water Engineering

Water System Improvements - DWSRF, Sierra Park Water Company

- Tuolumne County, CA. Project Engineer. Provided detailed design services for improvements to the Sierra Park Water System. Improvements include construction of a water treatment plant, SCADA upgrades, replacement of existing groundwater well pump and well head discharge piping, installation of tank level monitoring and associated ancillary improvements for the purposes of treating groundwater to comply with water quality standards. Currently providing bidding assistance for the construction of the project.

Water System Improvements - Phase I, New Auberry Water

Association - Auberry, CA. Project Engineer. Providing engineering services for the construction design package to include contract documents, plans, and technical specifications for project improvements to the existing water system. Improvements include replacing

transmission pipelines, upgrading well pumps, increasing water storage volume, and assisting with CEQA studies and reports.

Residential Water Meter Improvement Project - DWSRF, Santa Nella County Water District - Santa Nella,

CA. Project Engineer. The project consists of the installation of approximately 192 water meters, 335 radio transceivers, and 335 meter box lids on existing residential service connections to remotely record water usage. Responsible for the preparation of the bid documents and provided bid support services for the District.

Paradise-Grimes-Ohio Area Strengthen and Replace Water Mains, City of Modesto - CA.

Project Engineer. This project involves the replacement of approximately 19,350-LF of aging water distribution pipes with new water mains in a primarily rural residential area with numerous agricultural parcels fronting the project alignments. Responsibilities include preparation of design documents, including the plans, specifications, and estimates.

Cressey Elementary School Water System Improvements - DWSRF, Cressey School - Cressey, CA.

Project Engineer. The school water system consists of two wells, one steel pressure tank, and a distribution system. The groundwater source for Well No. 1 reported high levels of TCP. Black Water prepared a feasibility study evaluating alternatives to mitigate the impact of TCP contamination on the water system and health of the school's service population. Responsible for the preparation of the plans and specifications for the project.

Muller Mutual Water Company Consolidation with Tuolumne Utility District - DWSRF, Tuolumne Utility District - Tuolumne, CA. Project Engineer. Evaluated the feasibility of consolidation with TUD. Engineering services included assistance with funding applications and preparation of plans, specifications, environmental documents, water service agreement, and cost estimate for the necessary improvements to consolidate the system.

Colonial Heights Maintenance District Water Main Replacement - Ph I, County of San Joaquin - Stockton, CA. Project Engineer. Preparation of plans, specifications, and engineer's estimate for the replacement of approximately 20,500 LF of water mains ranging from 4- to 8-inches in diameter. Provided a review of the client's hydraulic model analysis water study to confirm the recommended water system improvements were sufficient to meet water demands and fire flow, and to determine any areas of concern related to water age.

Sutter Neighborhood Strengthen and Replace Water Mains Project, City of Modesto - CA. Project Engineer. Design engineering services for the replacement of existing water mains and valve boxes with the installation of new water lines, meter boxes, and services lines for residences of the Sutter Avenue neighborhood. Engineering services during construction responsibilities include RFI review and design changes to Roselawn Ave.

Nicholas Fahrney – Senior/Project Engineer

Nick is a licensed Structural Engineer in California with over 20 years of structural design experience including residential, multi-family, commercial, industrial, education, and health care construction. He graduated with a Bachelor's degree in Civil Engineering from the University of California, Davis with an emphasis in Structural Engineering. Nick worked in the Sacramento area and Merced before moving to Modesto in 2008, joined Pelton Wylie Engineering in 2018, and became a Principal in 2020.

Professional Registration:

Civil Engineer, California #CE70404
Civil Engineer, Oregon #97010PE
Civil Engineer, Washington #24005677
Professional Engineer, Texas #152844
Structural Engineer, California #SE5998
Structural Engineer, Nevada #028705
Structural Engineer, Arizona #80527

Education:

Bachelor of Science in Civil Engineering
University of California
Davis, California

Professional Affiliations:

Structural Engineers Association of California – Central (SEAOCC)
American Society of Civil Engineers (ASCE)

Relevant Project Experience

a. Similar Projects

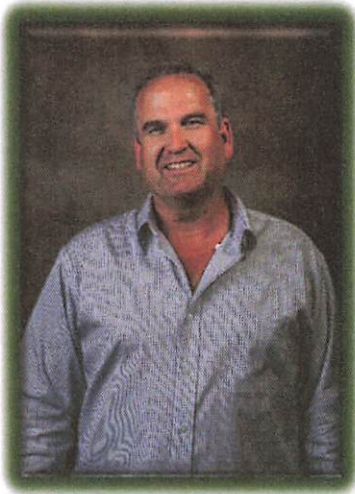
1. March 2023 - City of Escalon Wastewater Treatment Plant Upgrade Project
Black Water Consulting Engineers
Design new Headworks, Influent Splitter, and Mixed Liquor Splitter structures and an Electrical Building.
2. November 2021 – Cannery Park Holman Rd Phase 2 WID Culvert Design
VVH Consulting Engineers
Design new Box Culvert for roadway crossing.
3. February 2024 – Los Banos Unified School District New Early Education Center
North Star Engineering Group
Design new concrete head wall structures at roadway crossing.

b. Black Water Projects

1. 2019 - Pump Pit, Hilmar Cheese, Hilmar, CA
2. 2019 - Headworks Walkway, Wastewater Treatment Plant, Murphy's Sanitary District
3. 2019 - Sodium Hypochlorite Tank Bldg, City of Stockton, CA
4. 2020 - New Electrical Bldg, Ceres River Bluff Reservoir & Pumping Facility, Ceres, CA
5. 2020 - Pump House Bldg, Well 14, City of Patterson, Patterson, CA
6. 2020 - Murphys Treatment Plant, Murphys, CA
7. 2021 - Ratto Bros Equipment Supports, 6312 Beckwith Rd, Modesto, CA
8. 2021 - Crows Landing IBP Well No.7 Improvements, Fink Rd & Bonita Ave, Crows Landing, CA
9. 2021 - SNCWD Metal Building Foundation, 12931 CA-33, Gustine, CA
10. 2021 - Oakdale Dog Park Retaining Wall, Arlington & Bascule, Oakdale, CA
11. 2022 - Stanislaus Co Public Safety Center Refuse Pad, 200 Hackett Rd, Modesto, CA
12. 2022 - CCWD Hunters Reservoir, Hunter Dam Rd, Murphys, CA
13. 2022 - Escalon WWTP Upgrade, 25100 E. River Rd, Escalon, CA
14. 2022 - Cressey Elementary School, 9921 Crocker Ave, Cressey, CA
15. 2022 - Yosemite Under Canvas Pump Building, Hardin Flat Rd, Tuolumne County, CA
16. 2023 - SJC Fairgrounds Well, 1658 S. Airport Way, Stockton, CA 95206
17. 2023 - SNCWD Generator Installation, Santa Nella, CA
18. 2023 - Mariposa Control Buildings, Mariposa County, CA
19. 2023 - TCSD WWTP Phase 2, 18050 Box Factory Rd, Tuolumne, CA
20. 2024 - Thornton Wastewater Retaining Wall, Thornton, CA
21. 2024 - Buena Vista Generator Anchorage, 113 Tierra Alta Dr, Watsonville, CA



620 12th Street Modesto, CA 9
Phone: (209) 524-3525 / Fax: (209) 524-
www.nsen



Kent Hysell is a Principal with NorthStar Engineering Group, Inc. and is responsible for making sure proficiency is provided in every project that he manages.

Mr. Hysell has over 40 years of experience in Land Surveying and his thorough understanding of a project, starting with the boundary and topographic survey, through design, and during construction is a valuable benefit to his clients. Throughout his career he has actively participated in surveying, design, project management, and construction oversight of various public and private projects. He is proficient in all aspects of field surveys, office mapping, and survey calculations. Mr. Hysell started his career in surveying in 1983. He specializes in various public works and private development projects overseeing tasks which include office calculations, research, control surveys, GPS surveys, boundary surveys, construction staking, and management of construction projects. commercial, retail, and industrial developments, airport runways and taxiways, airfield parking aprons, highway interchanges, highway reconstruction, highway bridges, prisons, water and wastewater treatment plants, dams, power plants, railroad systems, and several schools. Mr. Hysell's surveying expertise was developed in the Modesto office of Thompson-Hysell Engineers between 1983 and 2007. Mr. Hysell orchestrated a survey department having up to twelve survey crews and eight office surveyors at one time. Mr. Hysell also acted as the principal in charge of survey geomatics and helped grow the office to a 100-man firm prior to his departure in 2007.

EDUCATION

California State University, Stanislaus

YEARS EXPERIENCE

- 40 Years
- Years with Firm - 14

SPECIALIZATION

- Commercial Projects
- Industrial Projects
- School Projects
- Residential Projects
- Apartment Projects

CERTIFICATIONS

Professional Land Surveyor

- California # LS6953



Charles R. Simpson
Principal, BaseCamp Environmental, Inc.

SPECIALTIES: Multi-disciplinary environmental planning, permitting, and impact assessment projects; innovative approaches to CEQA, NEPA and regulatory compliance; technical proficiency in several disciplines

EDUCATION: B.S., Resource Planning and Interpretation, 1974, California State Polytechnic University, Humboldt, Arcata, California. Continuing education in selected environmental and land use planning subjects

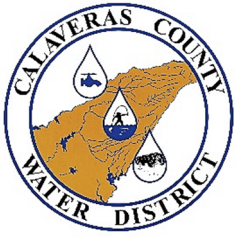
EXPERIENCE: 45 YEARS

Mr. Simpson's expertise is in environmental review and environmental planning associated with land, transportation, infrastructure and resource planning and development. He investigates and strategizes acquisition of required permits and approvals; he authors and manages complex environmental analyses; he formulates approval findings and decision documents; and he develops environmental and urban planning policy language and documentation.

Mr. Simpson is experienced in scoping, organization and management of multi-disciplinary environmental impact analyses, predominantly under the California Environmental Quality Act (CEQA). Mr. Simpson also has extensive experience in preparing National Environmental Policy Act (NEPA) environmental documents for local agency road widening and bridge projects under Caltrans leadership, and for water, energy and recreational development on federal lands. Mr. Simpson conducts environmental review processes and provides decision support for numerous cities, counties and other California local agencies as well as lead federal agencies including the USDA Forest Service, USDA Rural Development, USDI Bureau of Land Management, USDI Bureau of Indian Affairs, US Department of Housing and Urban Development. He has extensive experience with water supply, water quality and wastewater programs and improvement projects for school and other special districts.

Mr. Simpson's environmental planning experience is gained in a range of rural, natural resource and urban landscapes, including environmentally sensitive areas and their respective resources. His project experience includes industrial development, roads and bridges, energy generation, electrical transmission and telecommunications, water resource development, mining, waste disposal, liquids, gas and power transportation, resorts and recreational facilities, and urban development and infrastructure, including several water, wastewater and storm drainage projects for Central Valley cities.

Mr. Simpson is intimately familiar with the operations, needs and concerns of California local agencies and staff. He has overseen the preparation and processing of more than 300 CEQA review documents for cities, counties, LAFCOs and special districts. Mr. Simpson has staffed and continues to consult to California cities and counties on development and environmental review matters. He has been engaged to provide CEQA and NEPA training to the Stockton Municipal Utilities and Public Works departments as well as to several Stanislaus County departments. Mr. Simpson contributes to comprehensive plans, specific plans and plan elements; he has administered current planning, coastal planning, and economic development programs.



CALAVERAS COUNTY WATER DISTRICT

120 Toma Court

San Andreas, CA 95249

(209) 754-3543

REQUEST FOR PROPOSAL

Design, Engineering and Environmental Services for
CalOES/FEMA Hazard Mitigation Grant Program Project
West Point Water Supply Drought Project
Issued: October 25, 2024

Proposal Due Date Changed to December 18, 2024

INTRODUCTION/PROJECT BACKGROUND

Calaveras County Water District (CCWD) owns and operates the West Point Water System which provides potable water to approximately 600 Residential and Commercial Customers. The West Point Regulating Reservoir (also known as Bummerville Reservoir) is the only storage pond for the West Point Water System. Raw water flows by gravity from Bear Creek into the West Point Regulating Reservoir. During drought periods the year around storage of water in the Regulating Reservoir does not meet water demands, as a result the District has to purchase water from the Mokelumne River. This Proposed Project increases the storage capacity of the Regulating Reservoir from 50 AF to approximately 150 AF, thereby reducing the dependance on outside water. The District has secured grant funding for this Project from FEMA/Cal-OES to complete Phase 1 which includes 60% Engineering Design and Environmental Studies. Phase 2 Final Engineering Design and Construction funding approval is contingent on programmatic review and Environmental and Historic Preservation (EHP) approval. There are numerous FEMA Federal Contracting requirements that will be part of the selection process and final agreements to provide services, all subconsultants will be required to meet the same requirements as the selected consultant.

SCOPE OF WORK

The Scope of work includes the development of detailed engineering drawings and specifications for raising and enlarging the West Point Regulating Reservoir. Work activities include topographic mapping and land surveying; geotechnical studies; analysis and permitting of import borrow sites; surface hydrology analysis; performing biological studies, cultural resources, and historic properties surveys; stormwater pollution prevention plans; finalize environmental efforts (CEQA); documentation for (NEPA) review; tree surveys; monitoring and pre-construction surveys; dewatering and interim water supply plans; and preparing and submitting permit applications for Army Corp Engineers (404), Water Board (401), Department of Fish and Wildlife (1600) and Division of Safety of Dams. The Geotechnical Borings required to complete the Phase 1 Engineering Design are determined to be Categorically Excluded from the need to prepare either an Environmental Impact Statement or Environmental Assessment in accordance with FEMA. Construction Survey and Engineering Services during construction will also be required upon approval of the Phase 2 Portion of the Project.

Upon completion of the work required to comply with the California Environmental Quality Act (CEQA) the consultant shall substantiate the CEQA determination. The District anticipates that this Project will fall within the category of Mitigated Negative Declaration (MND). The Draft CEQA document will be issued, and final version amended in response to Public Comment. In accordance with Assembly Bill AB52, the Consultant will need to assist the District in notification of American Indian Tribes which may result in a Districts request for subsequent consultation.

PROJECT DESIGN

The 2018 West Point Master Plan completed by KASL Engineers provides the Conceptual Design of the Enlargement to the Reservoir. There are several iterations and conceptual designs identified in the master plan that would achieve the required capacity increase. The District has settled on a combination of excavation within the body of the reservoir and dam enlargement/extension to achieve capacity of 150 AF. The existing spillway, existing piping, drainage channel, and other appurtenance will also need to be modified or replaced. The District anticipates the existing concrete lined channel will need to be replaced with box culvert where it intersect the fill for the enlarged dam. A substantial amount of imported select fill will be required to enlarge the dam and construct associate berms, a nearby suitable borrow site will need to be identified and environmental clearances secured. The Reservoir is “off-line” from any active creeks or channels and raw water flow to the Treatment plant can bypass the reservoir during construction allowing dewatering of the reservoir.

A. Preliminary Design Report: The Consultant shall prepare a preliminary design report with recommendations and conclusions concerning the proposed project design. The report shall address the following:

1. Recommendations regarding proposed design.
2. Review of RFP project design requirements and recommendations concerning methods for reducing costs and/or alternative improvement solutions.
3. Recommend construction phasing.
4. Preliminary Engineering Design
5. Preliminary scaled design concept drawings.
6. Preliminary Cost Estimate

B. Drawings. The Consultant shall provide all necessary civil, structural, mechanical, and process drawings for execution of project construction. This includes standard drawings such as: cover sheet, index of drawings, vicinity and location map, general notes, project notes, standard details, description of symbols, and abbreviations. The 100 percent drawings shall represent the final project design. The Consultant shall anticipate minor revisions to the 100 percent drawing based upon final District comments prior to production of the Bid-Ready set.

Deliverables: 30%, 60%, 90% and Bid-Ready drawings for incorporation with Project Manual. Drawing submittals shall be furnished to the District in (Adobe pdf) file format for reproduction as both 11”x17” (ANSI C) and 22”x34” (ANSI D) paper size. Bid-Ready drawings shall be furnished in Autodesk® AutoCAD™ format.

C. Project Manual: The Consultant shall prepare a project manual including front end document, technical specifications, and appendices. The manual’s front-end documents

shall be based on the 2018 edition of the Engineers Joint Contract Documents Committee Standards (EJCDC®). A copy of the standards will be furnished to the Consultant by the District. The Consultant shall edit the EJCDC® documents adding any project specific and State of California contract requirements. Consultant shall provide a bid schedule, detailed descriptions for each bid item, alternative bid items, if any, and description of sequence of work. The technical specifications shall be based upon the Consultant’s standards, or if applicable, adapted from District standards. Project Manual appendices shall include copies of encroachment permits, stormwater pollution prevention plan (SWPPP), environmental/CEQA/NEPA documents and mitigation measures, geotechnical report, and other such reports.

Deliverables: 60%, 90%, and 100% percent Bid-Ready Project Manual.

D. Construction Cost Estimates: The District would prefer to have highly cost-effective design solutions. The consultant is to provide cost estimates at each step in the design effort so these estimates may be used as a tool to guide design choices and select more economical alternatives.

Deliverables: 60%, 90% and 100% construction cost estimates.

PROJECT SCHEDULE

MILESTONE	DATE
PHASE 1	
Engineering/Environmental Services Selection	January 15, 2024
Project RFP	October 25
Job Walk Appointments	November 11-22
Proposal Deadline	December 18
Pre-Design Report	March 2025
Design/Engineering Plans 30% and 60% Design Level Plans and Specifications	June/August 2025
Topographical Survey	March 2025
Native Tree Survey	March 2025
Geotechnical Studies and Barrow Site Analysis	May 2025
Environmental Review of Borrow Site	May 2025
Surface Hydrology Analysis	May 2025
DSOD Permit and Application	May 2025
Section 404/401 and 1602 Permits	May 2025
Prepare & Adopt Environmental Documents	May 2025
PHASE 2	
Design/Engineering Plans 90% Design Level Plans and Specifications	Two Months after Phase 2 Award
Bid Ready Construction Plans/Specifications	Three Months after Phase 2 Award
Construction Contract Award	Five Months after Phase 2 Award

Phase 1 Completion date is November 12, 2025, all Phase 1 Project Deliverables must be submitted to FEMA prior to the completion date.

PROPOSALS/SELECTION CRITERIA

The proposal may be in any format that best represents and demonstrates Consultant's qualifications, experience, organizational structure, team/staff members, etc. As a minimum, provide a statement of qualifications, representative project references, scope of work, detailed schedule/gantt chart with tasks and milestones, total fee estimate by tasks including hours and hourly rates, and subconsultant costs. Also, please provide for reference subconsultant's scope and fee for electrical engineering, structural engineering, and geotechnical services. A panel of three or more CCWD staff will review the proposals and make a final selection for the award based on criteria such as approach to work, qualifications and experience, project references, cost effectiveness and value, proposed schedule and subconsultants. The Proposal should be broken down to identify task that are part of Phase 1 and task that are Part of Phase 2. Phase 2 Task are contingent upon District and FEMA Approval, and District may remove these tasks from the scope of work. Also, Consultant must accept/agree to the terms of District's standard Professional Services Agreement (PSA).

RECEIPT OF PROPOSALS

On or before 2:00 PM, Wednesday, **December 18, 2024**, please submit proposals and fee estimate in separate sealed envelopes, either hand delivered or sent FedEx (AM delivery).

Calaveras County Water District
120 Toma Court
San Andreas, CA 95249
Attn: Haley Airola Engineering Coordinator
Phone: (209) 754-3184
Email: haleya@ccwd.org

Please contact Haley Airola haleya@ccwd.org or Kevin Williams at (209) 754-3184 or kevinw@ccwd.org with questions regarding this project.

Attachments:

1. 2018 Supplemental West Point Water System Master Plan
2. FEMA Cal-OES Federal Contracting Requirements

4c



AGENDA
ITEM

4c

Agenda Item

DATE: January 8, 2025

TO: Michael Minkler, General Manager

FROM: Damon Wyckoff, Director of Operations

SUBJECT: Discussion/Action Accepting the Eastern San Joaquin Groundwater Authority's Amendments to its Groundwater Sustainability Plan and approving their Submission to the Department of Water Resources

RECOMMENDED ACTION:

Motion: _____/_____ adopting Resolution No 2025-___ Accepting the Eastern San Joaquin Groundwater Authority's Amendments to its Groundwater Sustainability Plan

Motion: _____/_____ adopting Resolution No 2025-___ approving the submittal of the First Periodic Evaluation to the Department of Water Resources.

SUMMARY:

The Sustainable Groundwater Management Act (SGMA) of 2014 is considered by many to be the most significant piece of water legislation since the state first started regulating water use in 1914. SGMA requires local agencies (cities, counties, and water districts) to form Groundwater Sustainability Agencies (GSA) and charges them with bringing the State's over-drafted aquifers into balance by 2040. SGMA grants the GSAs broad authority to regulate groundwater use within their jurisdictional boundaries. The GSAs were required to submit Groundwater Sustainability Plans (GSP) to the Department of Water Resources (DWR) for review and approval. If the GSA's fail to comply with SGMA or implement their GSPs, the State Water Resources Control Board (Water Board) can take direct control of the groundwater basin and recover the State's costs from local communities.

The Eastern San Joaquin Groundwater Basin is one of 43 high-priority basins in the State recognized as critically over-drafted. There are 127 medium and high-priority basins in total, which represent 96% of California's groundwater. The Eastern San Joaquin Groundwater Basin extends into the northwestern portion of Calaveras County, including the community of Valley Springs. It is a key source of supply for many agricultural interests and communities in Calaveras, San Joaquin, and Stanislaus Counties including Linden, Lockeford, Oakdale, and Stockton, among others.

The Calaveras County Water District (CCWD) has one Public Water System that relies on groundwater as its source of supply. This system serves the community of Wallace and it is within the Eastern San Joaquin Groundwater Basin. CCWD also has county-wide water resources planning jurisdiction, which is the main reason CCWD has taken a leading role on SGMA implementation in the County.

CCWD, Calaveras County, Stanislaus County, and the Rock Creek Water District work together collectively to represent the interests of the Eastern portion of the Eastern San Joaquin Groundwater Basin. The four agencies formed the Eastside Groundwater Sustainability Agency (Eastside GSA) to manage SGMA compliance within the GSA's boundary (see map in Attachment A). The Eastside GSA is one of 16 GSAs that collectively encompass the entire area overlying the Eastern San Joaquin Groundwater Basin. The 16 GSAs formed a joint powers authority, known as the Eastern San Joaquin Groundwater Authority, to pool resources and coordinate SGMA implementation in the basin.

The Eastern San Joaquin Groundwater Authority (GWA) approved a GSP in January 2020 and submitted it to DWR. DWR approved the GSP in 2023. The GWA recently completed its first State-required 5-year periodic evaluation of its GSP. This evaluation resulted in proposed GSP amendments. The proposed amendments must be adopted and approved for submittal by all member GSAs in January 2025, so that the approved documents can be submitted to DWR by the January 29th deadline. A memo from the GWA's consultant, Woodward and Curran, summarizing the amendments is included as Attachment B. The full Periodic Evaluation is available at esjgroundwater.org.

CCWD provided comments on a draft of the Amended GSP chiefly centered around the number of basin monitoring wells within Calaveras County (Attachment C). The Amended GSP relegates some wells within Calaveras County to the status of "background" wells and does not rely on them to determine regulatory compliance. Upon further discussion with the Eastern San Joaquin Groundwater Authority and its Consultant, the District learned that wells within Calaveras County will continue to be used for reference and will still play a role in determining GSP compliance.

CCWD reaffirmed the fact that historic groundwater data collected in Calaveras County should continue to play a key role in reflecting the hydrogeology of the basin to help ensure continuity amongst datasets and avoid ambiguity relative to overall basin hydrogeology. Additionally, the District made the point that routine comparisons of representative monitoring well data and data from wells in Calaveras County work to enhance the GWA's understanding of the data and affirm the fact that the Eastside GSA is a recharge area for the entire basin.

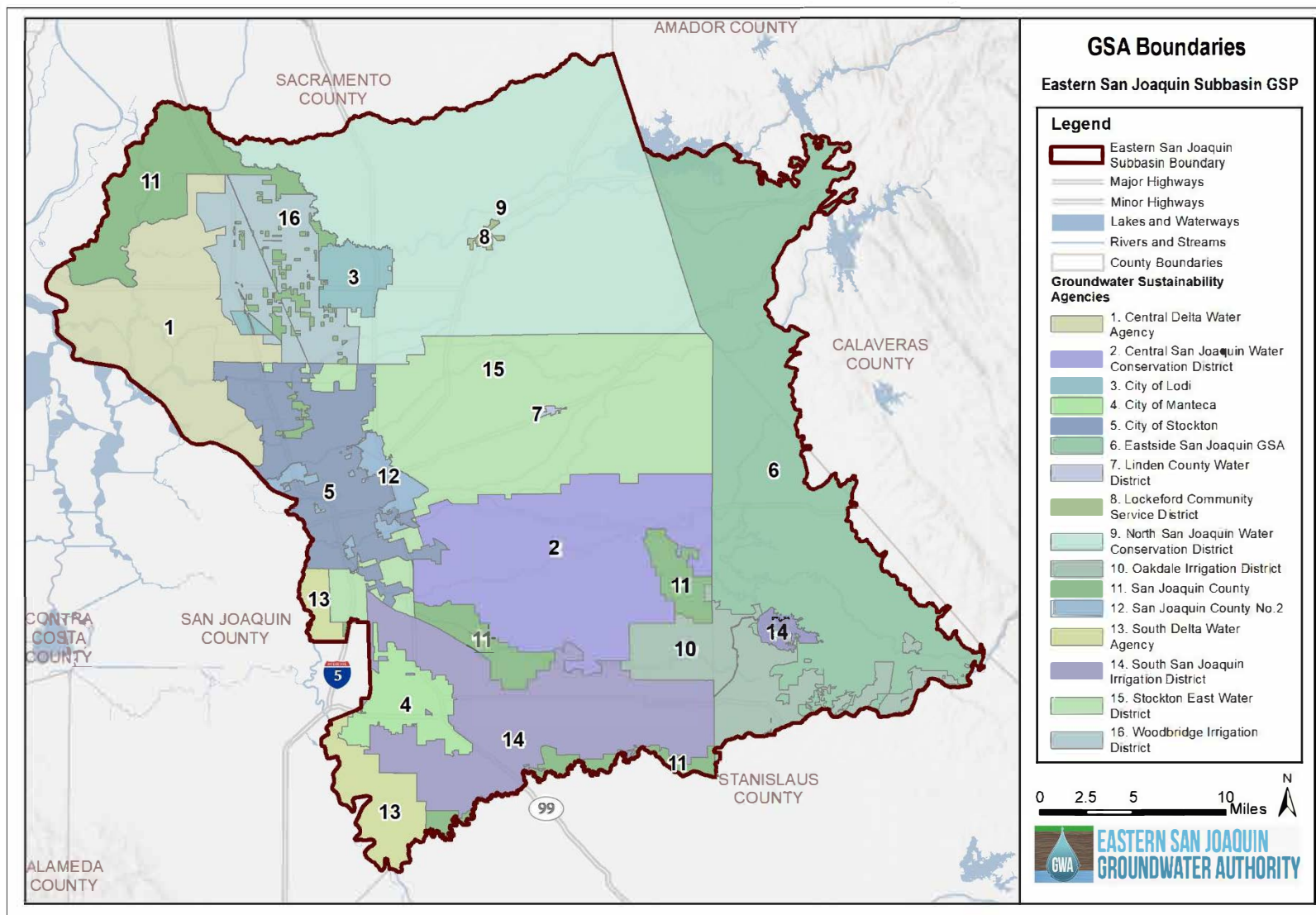
CCWD staff appreciate the GWA's efforts to complete the Periodic Evaluation and the Amended GSP. Proposed resolutions are attached accepting the Amended GSP and approving the submittal of the Periodic Evaluation. Staff recommends adoption of both resolutions.

FINANCIAL CONSIDERATIONS:

The proposed amendments to the GSP do not have a direct financial impact on CCWD. The Eastside GSA continues to work on a new governance structure to ensure the best path for long-term SGMA implementation. Updates on Eastside GSA activities should be before the CCWD Board in the coming months.

Attachments: A) Boundary Map
 B) GSP Edits Memo
 C) CCWD Comments
 D) Resolution No. 2025-__ Accepting the Eastern San Joaquin Groundwater Authority's Amendments to its Groundwater Sustainability Plan
 E) Resolution No. 2025-__ Approving the submittal of the First Periodic Evaluation to the Department of Water Resources.

Figure 1-3: Eastern San Joaquin Groundwater Sustainability Agencies



MEMORANDUM

TO: Eastern San Joaquin Groundwater Authority Board

PREPARED BY: Woodard & Curran

DATE: December 16, 2024

RE: Revisions to Eastern San Joaquin GSP Amendment and Periodic Evaluation since November 27, 2024 delivery of Final Draft documents

The following summarizes revisions made to the Final Draft Eastern San Joaquin Groundwater Sustainability Plan (GSP) Amendment and 5-year Periodic Evaluation since its dissemination to the Eastern San Joaquin GSAs on November 27, 2024. These revisions are reflected in the version of the documents posted to the ESJ website.

TEXT EDITS (Prior to GWA Acceptance, December 11, 2024)

1. Chapter 2, Section 2.4.9.2

Location of Edits: GSP Chapter 2, Section 2.4.9.2 Hydrologic Groundwater Budget

Changes Made: Strikethrough sections in the following paragraphs were removed from the GSP. Section reference errors were updated to reference the appropriate table.

"2.4.9.2 Hydrologic Groundwater Budget

Pumping in the PCBL-CC-PMA Version 3.0 remains the largest component in the groundwater budget with an annual average 846 TAFY. The PCBL-CC-PMA Version 3.0 offsets this pumping with 274 TAFY of deep percolation, a net gain from stream of 260 TAFY, 187 TAFY of other recharge, and a total subsurface inflow of 91 TAFY annually. The cumulative change in groundwater storage can be calculated from the annual change in groundwater storage. Due to inherent uncertainties in model input data, calculations, and calibration, all budget components have a degree of uncertainty. Given this uncertainty, the projected long-term average annual ~~the~~ groundwater storage deficit in ESJ Subbasin in the PCBL-CC-PMA Version 3.0 is 34 TAFY, indicating that groundwater overdraft is still occurring even with the Category A projects due to the impacts climate change on the Subbasin. These annual averages are shown in Table 2-28 ~~Error! Reference source not found.~~. The groundwater budgets, with average cumulative change in storage, are shown for the ESJ Subbasin in Figure 2-132.

~~Error! Reference source not found.~~ Table 2-28 also includes the PCBL Version 3.0 results and a Category A projects benefit calculated as the PCBL-PMA Version 3.0 results minus the PCBL Version 3.0 results. While the groundwater storage deficit in the PCBL Version 3.0 is projected to be corrected through the implementation of Category A projects as seen in PCBL-PMA Version 3.0, the modeling shows that when climate change is factored in for the PCBL-CC-PMA Version 3.0, there is

still additional work (e.g., projects and/or management actions) that may need to be done to maintain subbasin sustainability. The PCBL-CC Version 3.0 has a projected overdraft of 56 TAFY. When projects are added in, as simulated in PCBL-CC-PMA Version 3.0, this overdraft amount is reduced to 34 TAFY, ~~but still represents continuing groundwater overdraft in the Subbasin that is not sustainable.~~ "

2. Appendix 6-B: Technical Memorandum No. 6 – Demand Management Program

Locations of Edits: GSP Appendices, Appendix 6-B, pg. 5

Changes Made: Strikethrough changes were made as follows.

"Stated goal of total demand reduction to achieve sustainability ~~a modeled zero change in groundwater storage condition~~ by 2040, implemented either by PMAs that directly recharge groundwater or provide surface water to meet groundwater demand so that pumping is reduced without changing the land use; or reducing pumping through changes in cultivated agriculture, land fallowing or land repurposing that reduces the total demand for water, or a combination of both."

TEXT EDITS (After December 11, 2024)

3. Chapter 1, Section 1.2.3.4.3

Location of Edits: GSP Chapter 1, Section 1.2.3.4.3 Stanislaus County

Changes Made: Edits were made to reflect the updated Stanislaus County Well Construction permitting process. Text within this section and Table 1-3 were updated based on guidance from Stanislaus County. The new text reads:

"1.2.3.4.3 Stanislaus County

Pursuant to Chapter 9.36 of the Stanislaus County Code, well owners must first receive a valid permit from Stanislaus County to construct, install, repair, or destroy any well or well seal within the county. Stanislaus County DER is responsible for reviewing the applications and issuing permits. On April 5, 2022, the county adopted the "Stanislaus County Groundwater Well Siting and Construction Guidelines," which prescribed well annular seal depths to be more protective than current standards, with special requirements to address local hydrogeologic conditions and know water quality issues. The default minimum seal depth was increased from 20-50 feet to 50-80 feet and deeper seals are specified that exceed the state well standards, (CA DWR, 1991), to provide additional protection under locally variable conditions. Standards for seal depths were identified for the safe construction of all wells to prevent the intermixing of water between the upper zone and underlying aquifers.

In 2014, the DER adopted a groundwater ordinance to prohibit unsustainable extraction of groundwater in unincorporated areas of the county. The DER reviews each well permit application and determines whether the well is subject to, or exempt from, the prohibitions in the Groundwater Ordinance. Permit applications for wells intended to extract 2 AF/year of groundwater or less are exempt from the prohibitions in the groundwater ordinance (Stanislaus County, 2019b). If the permit applicant is not exempt, a supplemental application for non-exempt wells must be submitted and

demonstrate that the groundwater pumped from the well will be sustainably extracted and will not cause any of the "Undesirable Results" listed in Section 9.37.030 (9) of the ordinance. Additional permit application fees may be required, and the application review is conducted at the expense of the applicant (Stanislaus County, 2019c).

In response to EO N-3-23, Stanislaus County updated its well permitting process to refer applicable well permits to the GSAs for approval. If a GSA finds that a well permit application is not consistent with requirements in its GSP to prevent Undesirable Results, the applicant must provide substantial evidence that the proposed extraction is will not cause or contribute to their occurrence in accordance with Stanislaus County's Discretionary Well Permitting Implementation Guidelines."

Former Table 1-3:

Table 1-3: Minimum Depth of Seal Below Ground Surface for Wells in Stanislaus County

Well Type	Feet
Community water supply well	50
Industrial well	50
Individual domestic well	20
Agricultural well	20
Air conditioning well	20
All other types	20

New Table 1-3:

Special Management Area	Feet
Corcoran clay area upper zone	50 - 80
Corcoran clay area lower zone	at least 10 feet into Corcoran clay below the upper zone
Alluvial fan upper zone	50 - 80
Alluvial fan lower zone	50 - 80 or at least 10 feet into a competent clay layer below the upper zone
Fractured bedrock	50 or into the first solid rock stratum below the water table or to prevent the vertical migration of pollution
Wells completed in setback zones	Qualified Professional required
Wells completed in areas with potential lower zone contamination	Qualified Professional required

GENERAL FORMATTING EDITS (Prior to GWA Acceptance, December 11, 2024)

4. Table of Contents Improvements

Location of Edits: GSP

Changes Made: Removed Table of Contents pages and title pages for each individual chapter. Added hyperlinks to the items listed in the master Table of Contents for easier navigation.

5. Linked Figure/Table/Section References

Location of Edits: GSP

Changes Made: Resolved broken figure, table, and section links in various locations where there was “Error! Reference source not found.” in the Final Draft GSP provided to GSAs. These links were likely broken during the final pdf development or during the final ADA compliance check. Most of these errors were in Chapter 2. A few errors were found and resolved in other chapters.

6. Add Date of Adoption for the Dry Domestic Well Mitigation Program

Location of Edits: GSP Appendices, Appendix 3-J, pg. 4

Changes Made: The date of adoption (9/11/2024) was added to the top of page 4 of Resolution R-24-02 in Appendix 3-J.

7. Remove “DRAFT” watermark in Section 4 of Periodic Evaluation

Location of Edits: Periodic Evaluation

Changes Made: Removed draft watermark in Section 4 of the Periodic Evaluation.

GENERAL FORMATTING EDITS (After December 11, 2024)

8. Remove “DRAFT” watermark in TM No. 3 of GSP Appendices

Location of Edits: GSP Appendices, Appendix 3-F

Changes Made: Removed draft watermark that was left on a few pages of Appendix 3-F.

9. Linked Figure/Table/Section References

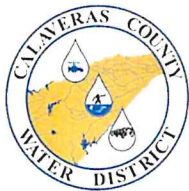
Location of Edits: GSP Appendices

Changes Made: Resolved broken figure, table, and section links in various locations where there was “Error! Reference source not found.” in the Final Draft GSP Appendices. These links were likely broken during the final pdf development or during the final ADA compliance check. Most of these errors were the Technical Memoranda. A few errors were found and resolved in other appendices.

10. Appendix 1-H: Added Final Communications & Engagement Plan

Location of Edits: GSP Appendices

Changes Made: The Communications & Engagement Plan was adopted by the GWA on December 11, 2024. Inserted the final adopted Communications & Engagement Plan into Appendix 1-H. A placeholder was included for this appendix in previous version of the GSP provided to GSAs.



CALAVERAS COUNTY WATER DISTRICT

120 Toma Court • San Andreas, CA 95249 • Main Line (209) 754-3543

Fritz Buchman, CE., T.E., CFM, Eastern San Joaquin Subbasin Plan Manager

RE: Comments on the Eastern San Joaquin Groundwater Authority's (ESJGWA) Groundwater Basin Sustainability Plan Update

Dear Mr. Buchman

The Calaveras County Water District (CCWD) would like to highlight the fact that Calaveras County wells, currently designated as Broad Network wells within the Plan update, are located within the recharge area of the basin and provide key basin health information. This fact was confirmed via the DWR-collected Aerial Electro Magnetics (AEM). The information these wells provide can be used throughout the life of the plan to further demonstrate the value of these shallow and deep recharge areas within Calaveras County. Their data, while illustrating groundwater interconnection, contribute to understanding the semi-consolidated tertiary bedrock aquifer, high-yielding water wells, and proximity to alluvial near-surface sediments.

CCWD has consistently provided groundwater measurements from several wells to help support the GWA and to continue to benefit from CASGEM reporting. CCWD would like to clarify why new CCWD wells are appearing in Tables 3-5 and 3-6 for groundwater quality monitoring, and what expectations are there regarding frequency, reporting, etc. CCWD would also like to clarify where CCWD's ongoing bi-annual well monitoring contributes to GSP groundwater level monitoring, given those wells don't appear in Section 3.3.1.2 details.

The data within the GSP update should reflect the hydrogeology historically conveyed by programs like CASGEM. This will help to ensure continuity amongst datasets and in turn avoid ambiguity relative to overall basin hydrogeology. Additionally, data collected by representative monitoring wells is enhanced by routine comparison of data from monitoring wells within the recharge area of the basin in Calaveras County.

The District is looking forward to adding valuable projects which will be submitted to the GWA to be included in future Annual Reports.

The District appreciates the hard work the GWA put into updating this plan and respectfully requests the District's input be given thoughtful consideration.

Thank you,

A handwritten signature in blue ink, appearing to read "M Minkler".

Michael Minkler, General Manager

RESOLUTION NO. 2025-**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE
CALAVERAS COUNTY WATER DISTRICT
APPROVING THE SUBMITTAL OF THE 2024 ESJ GSP AMENDMENT
TO DWR BY NO LATER THAN JANUARY 29, 2025**

WHEREAS, in August 2014, the California Legislature passed, and in September 2014 the Governor signed, the Sustainable Groundwater Management Act of 2015 (“SGMA”) “to provide local groundwater sustainability agencies with the Authority and technical and financial assistance necessary to sustainably manage groundwater” (Wat. Code, § 10720, (d)); and

WHEREAS, SGMA requires sustainable management of high priority groundwater basins through the development of groundwater sustainability plans (“GSPs”), which can be a single plan developed by one or more groundwater sustainability agencies (“GSAs”) or multiple coordinated plans within a basin or subbasin (Wat. Code, § 10727); and

WHEREAS, The Calaveras County Water District works closely with Calaveras County and Stanislaus County as the “Eastside Groundwater Sustainability Agency”; and

WHEREAS, the Calaveras County Water District is a member of the Eastern San Joaquin Groundwater Authority (“Authority”) formed for the purpose developing a GSP and coordinating sustainable groundwater management in the Eastern San Joaquin Subbasin (Wat. Code, § 10723.6(i)); and

WHEREAS, the Calaveras County Water District coordinated with the Authority and all other GSAs overlying the Eastern San Joaquin Subbasin to draft a single GSP for its members (the “ESJ GSP”); and

WHEREAS, the ESJ GSP, having been adopted by all GSA members of the Authority (including Calaveras County Water District), was submitted to DWR on January 29, 2020 in compliance with SGMA; and

WHEREAS, DWR completed its two-year review and by letter dated January 28, 2022, determined the ESJ GSP to be “incomplete,” as that term is used in SGMA, and identified certain alleged deficiencies that if addressed within 180 days of the determination and submitted to DWR by July 27, 2022, could allow DWR to approve the ESJ GSP; and

WHEREAS, the ESJ GSP and its Appendices were revised in 2022 in response to DWR’s “incomplete” determination and adopted by all GSA members of the Authority (including the Calaveras County Water District and submitted to DWR on July 27, 2022; and

WHEREAS, by letter dated July 6, 2023, DWR approved the ESJ GSP, as revised in 2022, and included a list of eight “Recommended Corrective Actions” for the GSAs to consider for the first Periodic Evaluation of the ESG GSP as required by SGMA due January 2025; and

WHEREAS, the Calaveras County Water District acknowledges that during the 20-year GSP implementation period it will be necessary to implement projects and management actions to achieve and maintain sustainable groundwater conditions in the Subbasins by or before 2042; and

WHEREAS, the Calaveras County Water District acknowledges that successful implementation of planned GSP projects to achieve their intended recharge benefits during the 20-year GSP implementation period (prior to 2042) is dependent in part on uncertainties related to hydrologic conditions, including precipitation, snowpack, and available water supply during that time period, and

WHEREAS, the Calaveras County Water District acknowledges that implementation of management actions will be necessary to offset these uncertainties related to project implementation and project benefits to ensure that sustainable groundwater conditions are achieved in the subbasin by or before 2042; and

WHEREAS, the Calaveras County Water District acknowledges that wet hydrologic conditions and faster implementation of projects may result in diminished need for management actions, and

WHEREAS, the Calaveras County Water District acknowledges that dry hydrological conditions, prolonged drought, and delayed implementation of projects may result in an accelerated need for management actions, and

WHEREAS, the Calaveras County Water District coordinated with the Authority, including the Calaveras County Water District and all other GSAs overlying the Eastern San Joaquin Subbasin to prepare the 2024 Eastern San Joaquin Groundwater Sustainability Plan Amendment (“2024 ESJ GSP Amendment”) to respond to DWR’s Recommended Corrective Actions and to prepare the first Periodic Evaluation of the ESJ GSP to be submitted to DWR by January 29, 2025; and

WHEREAS, the Calaveras County Water District acknowledges a Program for Dry Domestic Well Mitigation was adopted by the Eastern San Joaquin Groundwater Authority on September 11, 2024, with said resolution being included in Appendix 3-J of the amendments to the ESJ GSP; and,

WHEREAS, the Calaveras County Water District commits to development and adoption of a Demand Management Program by December 31, 2027, as described in Chapter 6 of the amendments to the ESJ GSP; and

WHEREAS, on July 24, 2024 , on behalf of all of its member GSAs the Calaveras County Water District, the Authority noticed the intent to adopt the 2024 ESJ GSP

Amendment pursuant to California Water Code Section 10728.4, noting that each of the GSAs intend to hold separate noticed public hearings to consider adoption of the 2024 ESJ GSP Amendment no earlier than ninety (90) days from the date of the Notice of Intent; and

WHEREAS, from October 1 through October 31, 2024 a public review period was held to solicit comments on the 2024 ESJ GSP Amendment; and

NOW THEREFORE BE IT RESOLVED, that the Board of Directors for the Calaveras County Water District hereby adopts the 2024 ESJ GSP Amendment; and

BE IT FURTHER RESOLVED that the CALAVERAS COUNTY WATER DISTRICT Board of Directors authorizes the Authority, its staff, and its consultants to take such other actions as may be reasonably necessary to submit the 2024 ESJ GSP Amendment to DWR by no later than January 29, 2025.

PASSED AND ADOPTED this 8th of January 2025 by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

CALAVERAS COUNTY WATER DISTRICT

Jeff Davidson, President
Board of Directors

ATTEST:

Rebecca Hitchcock
Clerk to the Board

RESOLUTION NO. 2025-**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE
CALAVERAS COUNTY WATER DISTRICT
APPROVING THE SUBMITTAL OF THE FIRST PERIODIC EVALUATION
FOR THE EASTERN SAN JOAQUIN SUBBASIN**

WHEREAS, in August 2014, the California Legislature passed, and in September 2014 the Governor signed the Sustainable Groundwater Management Act of 2015 (“SGMA”) “to provide local groundwater sustainability agencies with the Authority and technical and financial assistance necessary to sustainably manage groundwater” (Wat. Code, § 10720, (d)); and

WHEREAS, SGMA requires sustainable management of high priority groundwater basins through the development of groundwater sustainability plans (“GSPs”), which can be a single plan developed by one or more groundwater sustainability agencies (“GSAs”) or multiple coordinated plans within a basin or subbasin (Wat. Code, § 10727); and

WHEREAS, the Calaveras County Water District is a member of the Eastern San Joaquin Groundwater Authority (“Authority”) formed for the purpose developing a GSP (the “ESJ GSP”) and coordinating sustainable groundwater management in the Eastern San Joaquin Subbasin (Wat. Code, § 10723.6(i)); and

WHEREAS, the ESJ GSP, having been adopted by all GSA members of the Authority (including the Calaveras County Water District, amended in 2022, and ultimately approved by DWR on July 6, 2023; and

WHEREAS, SGMA and its implementing regulations require and authorize a GSA to periodically evaluate its GSP at least every five years, and whenever the GSP is amended, and to provide a written assessment to DWR that describes whether the GSP’s implementation, including implementation of projects and management actions (Wat. Code, § 10728.2; 23 Cal. Code Regs., § 356.4); and

WHEREAS, the Calaveras County Water District coordinated with the Authority and all other GSAs overlying the Eastern San Joaquin Subbasin to prepare the Subbasin’s first “Periodic Evaluation” to be submitted to DWR by January 29, 2025; and

NOW THEREFORE BE IT RESOLVED, that Calaveras County Water District hereby approves the submittal of the first Periodic Evaluation; and

BE IT FURTHER RESOLVED that the CALAVERAS COUNTY WATER DISTRICT authorizes the Authority, its staff, and its consultants to take such other actions as may be reasonably necessary to submit the Periodic Evaluation to DWR by no later than January 29, 2025.

PASSED AND ADOPTED this 8th of January 2025 by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

CALAVERAS COUNTY WATER DISTRICT

Jeff Davidson, President
Board of Directors

ATTEST:

Rebecca Hitchcock
Clerk to the Board

4d



AGENDA
ITEM

4d

Agenda Item

DATE: January 8, 2025

TO: Board of Directors

FROM: Michael Minkler, General Manager

SUBJECT: Assignments to District Committees of the Board and Representatives for Joint Powers Authorities for 2025

RECOMMENDED ACTION:

The Board President will appoint and publicly announce the members of standing committees for the ensuing year. The president may also create or eliminate any committee in his or her discretion at this time. The Board elects the members to serve on Joint Powers Authorities (JPAs) of which the District is a member.

SUMMARY:

Pursuant to Board of Director's Policy No. 4060, the Board President is given the discretion and responsibility to make appointments to standing and *ad hoc* committees of the Board for the ensuing year and to create or eliminate any such committees as deemed necessary or advisable by the President (see attached).

Board Committees

President Davidson appoints members of the Board to serve on committees of the Board as well as other local/regional organizations and associations of interest as listed in the attached Current Committees and Membership document.

Joint Powers Authorities

The Board must also elect members to various Joint Powers Authorities of which the District is a member. These memberships are determined by the election of the full Board. The following JPA reflects information received since the last Board meeting wherein President Secada requested each Board member submit his or her preferences for committee and JPA membership to the Board Clerk prior to this meeting.

Other Local and Regional Organizations

The Board representative(s) for other local and regional organizations and associations of interest (e.g., Mokelumne River Association, Mountain Counties Water Resources Association, Calaveras LAFCO, etc.) are also listed in the attached document. The

listed representatives, which may include one or more members of the Board, reflect preferences received from Board members and do not require formal action from the Board.

FINANCIAL CONSIDERATIONS:

Per Policy No. 4030, compensation and expense reimbursement are provided for Board member attendance at meetings of the Board, its committees, joint powers authorities, and other authorized meetings and events. Compensation is provided in the amount of \$120 per meeting with a total of up to six (6) meetings per month per Director. The types and amount of expense reimbursement allowed, including IRS approved mileage reimbursement rates, are set in Policy 4030.

*Attachments: Committee assignments and proposed slate
Board of Director's Policy No. 4060 – Committees of the Board of Directors*



2025 Committees and Membership Requests

Board Committee	Current	2025 Director Assignments
*Engineering Committee	Director Davidson Director Thomas Alt: Director Underhill	Director Davidson Director Thomas Alt: Director Underhill
*Finance Committee	Director Underhill Director Secada Alt: Director Thomas	Director Underhill Director Secada Alt: Director Ratterman
*Legal Affairs Committee	Director Ratterman Director Davidson Alt: Director Thomas	Director Ratterman Director Davidson Alt: Director Thomas
Real Estate Review ad hoc Ends March 31, 2025	Director Ratterman Director Thomas	Director Ratterman Director Thomas
President Appoints Committee Members		
JPA's	Current	2025 Appointments
ACWA/JPIA	Director Ratterman Alt: Michael Minkler	Director Ratterman Alt: Michael Minkler
CCWD Public Financing Authority	All Board Members	All Board Members
Calaveras-Amador Mokelumne River Authority (CAMRA)	Director Ratterman Director Secada Alt: Michael Minkler	Director Ratterman Director Secada Alt: Michael Minkler
Calaveras Public Power Agency (CPPA)	Michael Minkler Alt: Damon Wyckoff	Michael Minkler Alt: Damon Wyckoff
Eastern San Joaquin Groundwater Authority	Director Thomas	Director Thomas
Tuolumne-Stanislaus Integrated Regional Water Management Joint Powers Authority (T-Stan JPA)	Director Underhill Alt: Director Thomas	Director Thomas Alt: Director Secada
Upper Mokelumne River Watershed Authority (UMRWA)	Director Davidson Alt: Director Ratterman	Director Davidson Alt: Director Ratterman
Board Elects Joint Power Authorities Members by Minute Entry		
Other Regional Organizations of Note	Current	2025 Recommendations
Calaveras County Parks and Recreation Committee	Director Thomas	Director Thomas
Mountain Counties Water Resources Association (MCWRA)	All Board Members	All Board Members
Tuolumne-Stanislaus Integrated Regional Water Mgt. JPA Watershed Advisory Committee (WAC)	Kelly Gerkenmeyer Alt: Juan Maya	Kelly Gerkenmeyer Alt: Juan Maya
Eastern San Joaquin Groundwater Authority-Technical Advisory Committee	Mark Rincon-Ibarra Alt: Sam Singh	Jesse Hampton Alt: Bana Rousan-Gedese

4060.10 The Board President will appoint and publicly announce the members of standing committees for the ensuing year no later than the Board's regular meeting each February.

4060.10.01 The Board's standing committees are assigned to review District functions, activities, and/or operations, within the Board's authority granted by the Water Code. At the request of the Board President each standing committee will declare and/or review its stated mission and purpose and present any revised mission/purpose statement to the full Board, for approval.

4060.10.02 An alternate Board member named to a standing committee will be so designated at time of appointment. An alternate Board member of a standing committee that has two (2) other Board members assigned may not actively participate in the activities of the committee unless one (1) of the other appointed Board members cannot attend the committee meeting.

4060.10.03 The meetings of standing committees are open to the public, and are agendized, in accordance with the requirements of the Brown Act. In accordance with the Brown Act it is understood that any Board members attending the committee who are not named as representatives to a standing committee may not participate in the discussion; the involvement of three (3) or more Board members constitutes a quorum and therefore a meeting of the full Board.

4060.20 The Board President has the ability to appointment ad hoc committees as may be deemed necessary or advisable by themselves or the Board. The duties of the ad hoc committees must be outlined at the time of the committee's creation, and the committee will be considered dissolved on the date established at appointment of the ad hoc committee by the Board President or when its final report has been made to the Board, whichever occurs first.

4060.20.01 The meetings of ad hoc committees may be open to the public and may be agendized, depending upon the committee's purpose. In such cases, in accordance with the Brown Act it is understood that Board members not named as representatives to a standing committee may not participate in the discussion; the involvement of three (3) or more Board members constitutes a quorum and therefore a meeting of the full Board. More typically, ad hoc committees involve such issues as do not require public notice.

4060.30 The Board, by a majority vote of the full Board, may challenge and override the President's creation of either a standing or ad hoc committee, or the appointment of a

Committee Member to either a standing or ad hoc committee. Any such item must be agendaized prior to the vote.

4060.40 A current list of committees of the Board will be maintained at all times by the Executive Secretary/Clerk to the Board.

4060.40.01 It is understood that the first name listed of Board members appointed to any standing or ad hoc committee will serve as the Chair of that committee.

5 a

A G E N D A
I T E M

5 a

Agenda Item

DATE: January 8, 2025
TO: Michael Minkler, General Manager
FROM: Damon Wyckoff, Director of Operations
RE: December 2024 Operations Department Report

RECOMMENDED ACTION:

Report on the Operations Departments Report for Districts 1 through 5.

SUMMARY:

Attached is the monthly Operations Department Report for December 2024. The report will review the operational status and work completed by departmental administration and each of the five Districts. The report will cover the following:

- Administration
- Water treatment plants
- Wastewater treatment plants
- Distribution
- Collections
- Construction
- Electrical
- Mechanical

Staff will be present to report to the Board of Directors and will be available for questions.

FINANCIAL CONSIDERATIONS:

None.

STRATEGIC PLAN INITIATIVES:

OI-01 Ensure our infrastructure is operated and maintained to fully realize its expected life span.

OI-02 Implement preventative, predictive, and corrective maintenance plans to ensure safe and reliable operations.

EO-10 Value the workforce that enables us to deliver on the Strategic Plan goals and objectives and upholds the District's core values.

Attachment: December 2024 Operations Department Reports for Districts 1 through 5

Operations Departments Report

December 1st thru December 31st, 2024

Director of Operations:

1. On-going coordination and management of multiple District Operations projects and work efforts.
2. Continued work with the Mountain Counties Water Resources Association to express our regions unique challenges to State Representatives as they relate to regulation.
3. Conducted the Quarterly Utilities Coordination Meeting.
4. Site visits to multiple in-construction District projects.
5. Continued to work with District Staff and the consultant to ensure the effective implementation of the AMI Project.
6. Continued to work with CCWD's Water Resources Team, Stockton East, and Woodard & Curran RE: the grant-funded Calaveras River Watershed Resilience Study.
7. Conducted an On-Call Procedures Training for newer CCWD Field Staff.
8. Participated in project progress meetings for the design of the Huckleberry Lift Station Rehabilitation Project.
9. On-going work with KW Emerson related to the Shop building fire at the West Point WTP.
10. On-going CARB related work with the CARBs Clean Fleets Infrastructure TRIG, MCWRA, and ACWA.
11. On-going work with Staff and the District's Consultant to glean any additional operational options to improve Disinfection Byproduct reduction in the Ebbetts Pass Service Area. Working now to request the State lift the order.
12. On-going work with the Mobile MMS Team to optimize work orders, service requests, the District Dashboard, and Regulatory Compliance requirements.
13. On-going work with the Water Resources Team related to the East San Joaquin Groundwater Authority's Basin Plan Update. Worked with the Team to provide comments.
14. Continued work with Phoenix Energy to better understand Biomass system needs and refine the relationship between the West Point WWTP and the Blue Mountain Biomass Facility.
15. Conducted a Operations Department Supervisor's Meeting. Covered various items including safety, budgets, and projects.
16. Participated in the review of consultant proposals for the design of the West Point Bummerville Dam Raise FEMA-funded project.

Administrative Technician:

1. Maintained Field Calendar
2. Received/Tracked All USA North Line 811 Locates – Handled Associated Calls – 137 Received District Wide
3. Facilitated with Employee Reimbursements
4. Facilitated with Employee Certification – Applications, Exams, Renewals, Trainings, Resources
5. Field Training Course Ordering/Registrations/Travel Arrangements
6. Process Operations Purchase Order Batches
7. On Call Reminders, Transfers, Logs
8. Electronic Lab Report Filing
9. Organizing and Archiving Operations Department Documents
10. Safety Tailgate Meetings: Create, Track, & Archive
11. Attended Various Meetings
12. Permit Renewals
13. 2024 Backflow Program Work Efforts
14. Tyler Training

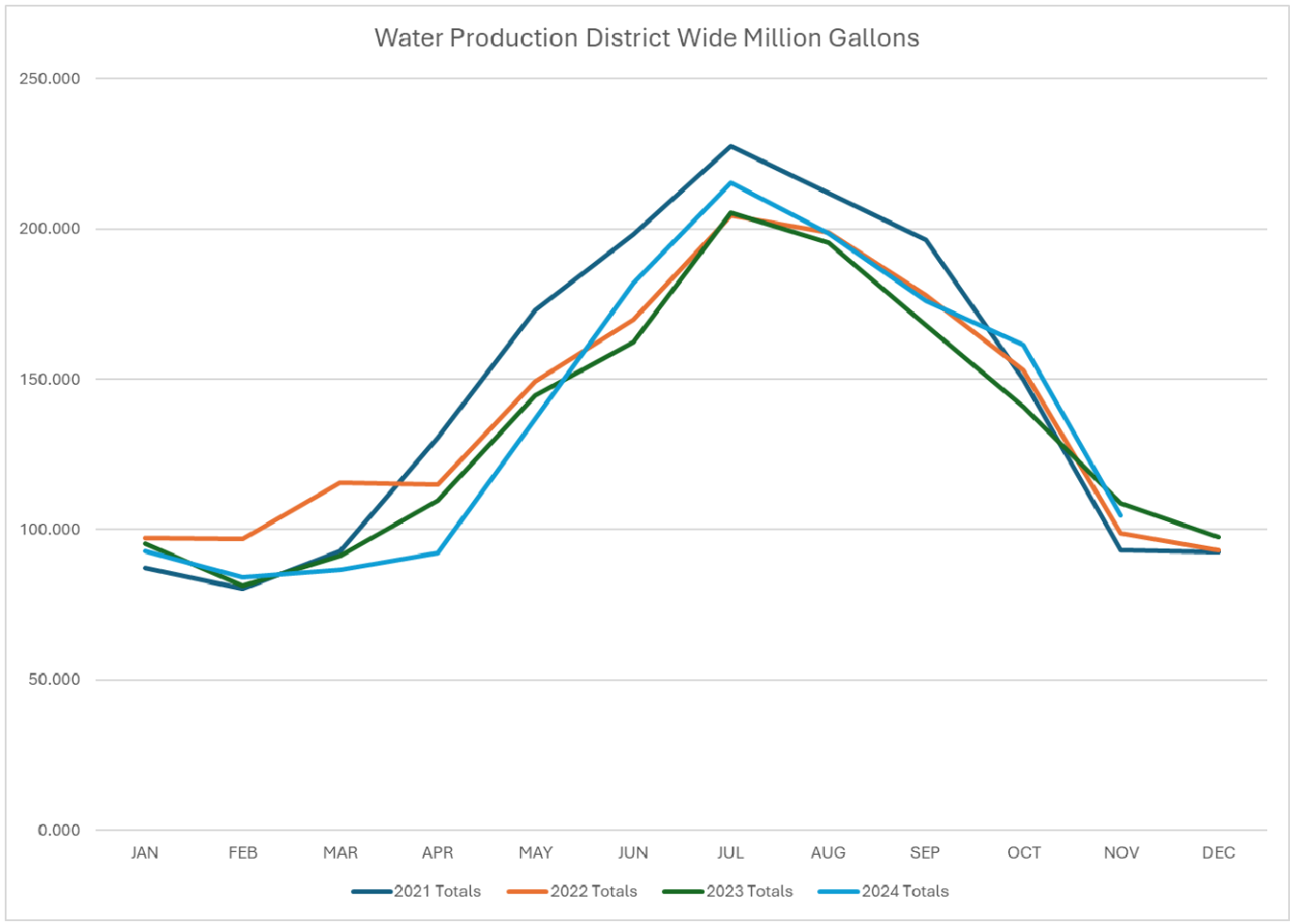
15. Completed 2025 On Call Schedule
16. Miscellaneous Administrative Functions

Plant Operations Manager:

1. Completed the review and acceptance of the monthly State Water Reports for all the Districts Water Systems and submitted them to the State.
2. Completed the monthly Wastewater Reports for all the Districts Wastewater Systems and submitted them to the State.
3. Working very closely with the new operator in West Point to ensure that all system needs are met.
4. Working closely with our operators in Copperopolis water, wastewater, and reclaim plants.
5. On-going work associated with PO's and ordering supplies for different District facilities and projects.
6. Continued work efforts on annual backflow testing.
7. Ongoing work efforts associated with the Ebbetts Pass HAA5 violation for purposes of public notification and data collection.
8. Working closely with Ms. Bana Rousan-Gedese on Water Resources related items.
9. Ongoing work efforts related to the District's Cross Connection Control Surveys with Ms. Burke.
10. Started ongoing work efforts with Valley Water Collaborative for Nitrate control in the Eastern San Joaquin's Management Zone Groundwater Basin.
11. Working with our engineering department on updating our site maps for the California Environmental Reporting System.
12. Attended a meeting for the Calaveras River Watershed.
13. Assisted Ms. Bana Rousan-Gedese with filling out the District's Water Audits and submitting.
14. Attended the ACWA conference.
15. Attended the Eastern San Joaquin Groundwater Authority board meeting.
16. Working with Hydro Science on design work for Copper Cove wastewater plant facilities.
17. Also working with Hydro Science on design work for La Contenta wastewater plant.
18. Attended the Operations Supervisor meeting.
19. On-going work efforts with the Districts CERS (California Environmental Reporting System) annual reporting.

November 2024 Water Production

- a. Copper Cove – 28.99 MG
- b. Ebbetts Pass – 31.66 MG
- c. Jenny Lind – 38.78 MG
- d. Sheep Ranch – 0.29 MG
- e. Wallace – 1.29 MG
- f. West Point – 3.79 MG



Construction and Maintenance Manager:

1. Staff meetings.
2. Board meetings.
3. Weekly Copper Cove tanks project meeting.
4. Copper Lift Station and force main relocation project weekly meetings.
5. West Point/Wilseyville Consolidation on-site project meeting.
6. Attended Employee Wellness Committee meetings.
7. Attended the Jenny Lind A to B Transmission Pipeline Project Meetings.
8. Conducted interviews for the vacant Construction Worker Position and selected a candidate.
9. Participated in the Real Estate Ad Hoc Committee Meeting.
10. Participated in the Copper Cove Water System's B Tank Project meetings.
11. Attended the Quarterly Utilities Coordination Meeting.
12. Attended a Scout Water leak repair system from Mueller Water Systems.
13. Participated in Cla-Val Training conducted for newer CCWD Field Staff Members.
14. Participated in meeting between Ops and Engineering to discuss projects list.
15. Participated in On-Call Training for newer staff.
16. Participated in meetings to discuss completing Inflow & infiltration studies for the La Contenta and Arnold Collections Systems.
17. On-site meeting at Copper Town Square Lift Station with CCWD, CV Developers, and WGA Staff to discuss new lift station design options.
18. Presented the Monthly Ops Report to the Board at the December Board Meeting and presented the ACWA-JPIA Safety Award to Staff.
19. Participated in the Operations Supervisors Meeting.

20. Attended a presentation from a software Company called IOSight regarding their IGreen software and potential uses.
21. Participated in a meeting to discuss the Jenny Lind Elementary School WW force main and technical specs associated with the design.
22. Site visit to the Hogan Dam Road Potable Water Fill Station and discussed repairs to the ruts in the asphalt.
23. Met with PG&E and our Construction Team Supervisor at the new Shop to plan for and ultimately facilitate the installation of the natural gas meter for the standby generator.
24. Participated in a field meet at the Hunters Tunnel Tap with CCWD and UWPA Staff to discuss options for fencing around the tunnel tap.
25. Multiple site visits to CCWD jobs including Bear Creek diversion downed-tree cleanup and the Copper Cove B Tank floor repair.
26. Multiple customer calls related to discussing and working to resolve issues/concerns.

Purchasing Agent:

1. Worked on inventory of new warehouse.
2. Completed invoicing for purchased material.
3. Met with various reps and received quotes for various items for purchase.
4. Ordered parts, tools, materials, and equipment for all departments.
5. Coordinated service of District Vehicles for Field Staff.
6. Reconciled Credit Cards for Field Staff.
7. On-going work related to the CARB Clean Fleets Regulations
8. Began working in the new Tyler Purchasing System.
9. Worked on valve replacement parts for the treatment plants.
10. Ensured CCWD compliance with Calaveras County's herbicide spray permitting requirements.
11. Ordered meter boxes.
12. Worked on purchase requests and inventory transfers in MMS.
13. Delivered supplies, materials, and parts.
14. Worked on end of the year invoicing.
15. Worked on developing surplus equipment and material list.
16. Worked on capital outlay purchases for this year's fiscal.
17. Worked on recall orders for leased vehicles.
18. Set up delivery and repair of a Vallecito Main Lift Station pump.
19. Set up pump maintenance for Copper Cove's FLYGT pumps.
20. Worked on inventory stock replenishment order.
21. Scheduled and organized additional radio installations for District vehicles.

Water Treatment Plants:

Copper Cove Water Treatment Plant:

1. Operations as usual
2. Lost the pump on Effluent Pump #2. Replaced the motor with a spare and sent the failed motor in for repair.
3. B Tank/Clearwell rehabilitation and replacement project continues.
4. The New B-Tank is online.
5. The Old 2nd B-Tank Rehabilitation in progress
6. The New O3 generators are operational and, as a result, water quality is exceptional. We are running Filter #1 at 600 GPM. Ozone is up and running thanks to the Tech from Veolia, Eric from A Team, our electricians, and the operating staff here at the Copper Cove WTP. Chemical usage is down not only due to the flows but with the introduction of the ozone the water quality coming into the clarifier has dramatically improved. We will be ready to take THHM's and HAA5's in December.

Hunter's (Ebbett's Pass) Water Treatment Plant:

1. Operations as normal
2. Monthly White Pines Dam Inspection Completed.

Jenny Lind Water Treatment Plant:

1. Operations as usual
2. Clearwell #2 Rehab in progress.

Sheep Ranch Water Treatment Plant:

1. Operations normal for the Month.

Wallace Lake Estates Well System:

1. Operations as usual
2. Delivered temporary potable water storage tanks to the WTP.

West Point Water Treatment Plant:

1. Operations as Usual.

Wastewater Treatment Plants:

Arnold Wastewater Treatment Plant:

1. Operations as usual
2. HVAC Units serviced.
3. Ordered new NaOH metering pump for the Vallecito Headworks

Copper Cove Wastewater Treatment Plant:

1. Normal Operations
2. Working to coordinate solids removal from Ponds 1 thru 4.
3. Problems with the headworks Pumps. Moisture Alarm. Pumps need to be pulled and checked to see if they can be rebuilt or replaced. Whatever is more cost effective. In the process of getting this resolved.

Copper Cove Wastewater Reclamation Plant:

1. Intend to run the plant until the end of December.

Country House Wastewater Facility:

1. Operations as usual

Forest Meadows Wastewater Treatment Plant:

1. Operations as usual
2. Electricians Correct generator fault.
3. Received two rebuilt aerators back from Industrial Electric
4. Flowmeters Calibrated
5. Received 45,000 gallons of septage from Millwoods.
6. Reduced the sludge in the DAF units.

Indian Rock Vineyards Wastewater Facility:

1. Operations as usual
2. Need to determine how to provide water service to the facilities to improve system and basket cleaning.

La Contenta Wastewater Treatment Plant:

1. Operations as usual

Mountain Retreat / Sequoia Woods Wastewater Facility:

1. Operations as usual

Six Mile Wastewater Collection System:

1. Monthly reads taken and report submitted to the City of Angels Camp

Southworth Wastewater Treatment Plant:

1. Operations as usual

Vallecito / Douglas Flat Wastewater Treatment Plant:

1. Operations as usual
2. Still dealing with cows. found 3 makeshift gates now.
3. Ongoing replacement of broken irrigation heads
4. Prepped the anox tank for paint with the Facilities Maintenance Tech
5. Great visit with Kubota (MBR Facility Tech) and results where we are running the plant at optimum efficiency. Textbook, he said.

West Point Wastewater Treatment Plant:

1. Operations as usual
2. The consolidation is almost complete. Paving is complete. Awaiting the completion of the electrical improvements.

Wilseyville Wastewater Facility:

1. Operations as usual

Wallace Wastewater Facility:

1. Operations as usual

Distribution:

Copperopolis Distribution System:

SERVICE LINE WORK

1. 796 Uncle Billy
2. 734 Sandy Bar

MAIN LINE WORK

1. None during this period

Additional Work

1. 8 Valves Turned
2. Service Requests
3. Flushed 84,000gallons.
4. USA's

Ebbett's Pass Distribution System:

SERVICE LINE WORK

1. 1" Blue Poly Lupine Ln. After-hours/Sunday repair
2. 1" Plue Poly Cheyenne Way
3. 1" Blue Poly Cheyenne Way
4. 1" Blue Poly Ute After-hours/Sunday repair
5. **1MAIN LINE WORK**
1. 2" Blue Bell Canterwood Ln. Forest Meadows after-hours repair.

Additional Work

1. Service Requests 16 Received 14 Resolved 2 Outstanding
2. Work Orders 11 Created 11 Resolved 1 Outstanding
3. USA Tickets 54 Received 54 Resolved
4. Fire Hydrants out of service = 4
5. Line Flushing
 - a. 10,500 gal in Sheep Ranch – Water Quality improvements
 - b. 10,800-gal auto-flushed, Indian Rock Rd. – Big trees Village
 - c. 65,000 gal flushed at Big Trees Tank 6
6. Routine Investigation of AMI meter alerts.

7. Fire hydrant maintenance. Routine brushing, clearing, and marking. Repaired a broken hydrant on Manzanita Dr. that was knocked off by a car.
8. The hydrant on Linebaugh is leaking and in service. Does not have an isolation valve. Repair must be scheduled to include the installation of a guard valve.
9. Routine system maintenance and improvements.
10. Daily/ monthly vehicle inspection logs.
11. Ongoing system optimization adjustments and investigations in Big Trees #4 & Big Trees #6 zones auto flusher has been removed and the Big Trees Tank 6 drain had to be opened for 9 days to maintain residual- now closed.
12. In September, the team physically located and mapped infrastructure from Sawmill Tank to Dorrington on Waterline Rd. still awaiting district maps to be updated with information.
13. In Sept. 2024 a Sequoia Woods golf course maintenance worker broke our 2" gate valve at the main. we are scheduling this shutdown and repair for after peak season at the resort. this repair will be scheduled in the spring as it is now to late in the season.
14. Continuing work on updated flushing program. Upper and lower system reaches Planned for Spring.
15. Ongoing coordination with engineers and consultants on the Sawmill Tank Project.
16. Performed potholing at accessible locations for the Sawmill Tank Project.
17. Awaiting coordinated training with the EPFD to discuss ongoing issues with hydrant testing procedures and proper training of their technicians.
18. Routine system maintenance and improvements.
19. Ongoing documenting and photo logging of PRV stations.
20. Continued logging pressure readings into the MMS mapping system.
21. Daily/ monthly vehicle inspection logs.
22. Attended Cla-Val training in La Contenta
23. Completed the burning and cleanup of slash piles at the Barn.
24. Greased and prepped equipment for snow removal
25. Attached plows to trucks - prepped equipment and vehicles for winter.
26. Handheld and manual meter reading- troubleshooting and repairs.
27. *** as always, huge thanks to our other crews for assisting us with repairs when needed!!!!***

Jenny Lind Distribution System:

SERVICE LINE WORK

1. 3604 Hanly Dr
2. 8588 Rice Ct
3. 8551 Mann Rd
4. 7464 DaLee Rd
5. 5931 Baldwin Rd
6. 8352 Hautly Rd
7. 7522 Baldwin Rd
8. 7121 Baldwin Rd
9. 8337 Pardini Pl
10. 6022 Rippon Rd
11. 3616 Hartvickson Ln
12. 5867 Baldwin Ln
13. 8604 Watts Ct
14. 3316 Antonovich Rd
15. 7501 Anderson Rd
16. ** 8933 Hautly Rd 2" blue bell repair
17. ** 2129 Partridge half a line replacement
18. ** 5809 and 5793 Rippon Rd full line replacement

MAIN LINE WORK

1. 6" AC at 5881 Thornicroft – New tap saddle installed, and service plumbed back in.
2. 6" AC at intersection of Hartvickson and Dunn – 4' crack on the bottom of pipe – cut out and replaced with two 6" Hymax couplers
3. 20 'of 2" blue bell pipe replaced on Butler Ct
4. 2" blue bell on Davidson Ct – small piece cut in
5. New Tap Saddle and all new plumbing from the 6-inch main to the meters at 7021 Jenny Lind Road.

ADDITIONAL WORK

1. Vehicle Inspections
2. Lower end flushing for water quality purposes
3. Work orders for water quality, meter installations, pressure problems, leak checks etc.
4. A to B project continued – multiple site visits and stand by for water main crossings
5. Line locates including some substantial and time-consuming ones associated with the A to B construction.
6. Weekly tank and pump station checks
7. Month end reads for hydrant meters, fill stations, raw water and Lancha Plana
8. Power outage at B tank pressure system – Started generator and manually switched over to emergency power and hooked backpack generator up to UPS to keep SCADA up and running.
9. Greased GapVax and cleaned vacuum and water filters.
10. Started system PRV inspections.
11. Manual meter reads through Sentryx for billing purposes.
12. Assisted Utility Crew with line replacements on Baldwin.
13. Assisted West Point Distribution with water leaks.
14. Backhoe Training
15. Line locating Training.
16. GPR Training
17. Water main shutdown to replace broken 2" valve on Butler Ct.

West Point Distribution System:

SERVICE LINE WORK

1. None during this period

MAIN LINE WORK

1. None during this period

ADDITIONAL WORK

1. Line locating marking water and sewer lines (USAs)
2. Completed Service requests.
3. Collected weekly flow meter reads.
4. Weekly tank checks
5. Weekly pump checks
6. Weekly LS checks
7. Weekly generator checks
8. Monthly hydrant and Lancha reads.
 1. Worked on Locating raw waterlines at the regulator pond.
 2. Generator problems at Wilseyville pump station
 3. Kept all generators topped off with fuel.
 4. Working on Sentryx meters that are not commissioned or in the system.
 5. Worked in shop on all small motor tools- maintenance, tune ups etc.
 6. Had new tires and breaks installed on truck #741 (2020 F350)
 7. Had a field meet with Barney HOA and their contractor to discuss waterlines on Timber, Faye, Barbara, and Patricia.
 8. Removed Dam board from Regulator pond.

Electrical:

1. Replaced fan override switch and fan motor in unit heaters at the Jenny Lind WTP, restoring proper functionality.
2. Troubleshoot unit heaters at the West Point WTP, heater failed, ordered new unit.
3. Added output card to new pump #1 VFD at Upper Cross Country lift station, wired in fail light.
4. Red lined blueprints per the engineering department for the new lift station on Silver Rapids Road and at Jenny Lind elementary school
5. Helped a contractor install the telemetry antenna and mast with the bucket truck at the new Copper Cove lift station #8.
6. Repaired the Autodialer contact wiring at Copper Cove lift station #16 to prevent erroneous alarms.

7. Pulled pump #1 at the Copper Cove WWTP headworks, unwired it, the mechanics then sent it off to be rebuilt.
8. Troubleshoot and repaired a pump #1 failure at Copper Cove lift station #8, the VFD had a phase loss fault due to a PG&E power loss event.
9. Worked on the PG&E service for our septic system panel at 3341 Vallecito Road
10. Troubleshoot and repaired the generator and transfer switch at the Copper Cove raw water pump station, set the date and time correctly and performed a meter calibration, then simulated a power outage to test proper function.
11. Performed annual flow meter calibrations in the Wallace service area.
12. Troubleshoot sewer pumps at Arnold lift station #2, pulled the pumps with the collections crew.
13. Performed annual flow meter calibrations in the Copper Cove service area.
14. Performed multiple electrical system locates in the Copper Cove service area.
15. Completed annual flow meter calibrations at the West Point WTP
16. Performed annual flow meter calibrations in the Ebbetts Pass service area.
17. Helped with new Copper Cove lift station #8 startup/checkout.
18. Added new collection crew employees and deleted old from the Copper Cove WWTP SCADA system call out list
19. Walked an operator through a SCADA #1 computer fix at the West Point WTP after a power outage.
20. Reprogrammed the Autodialer at Arnold lift station #3 with the phone numbers of the new collection crew members.
21. Updated the mechanical crew call out lists in the SCADA systems districtwide.
22. Fixed a glitch in the SCADA system at the Copper Cove WWTP that corrupted the phone numbers and access codes of the collections system members.
23. Finished the new Copper Cove WTP ozone system, secured the airlines to the ceiling, and cleaned up left over installation parts.
24. Completed an afterhours emergency repair of the T96SR primary polling radio at the A-Tank pump station in Valley Springs after an areawide telemetry communication loss.
25. Troubleshoot and repaired the UV system at the Forest Meadows WWTP, replaced 3 failed ballasts.
26. Finished the annual flow meter calibrations at the Hunters WTP
27. Programmed 6 new truck radios for upcoming new vehicle installations, had challenges of a codeplug version error, successfully migrated the program from the old version to the new
28. Completed the annual flow meter calibrations in the La Contenta and Wallace service areas.
29. Met with Bay City electric at Copper Cove lift station #18 for generator startup, and then a wiring fix in the generator at Copper Cove lift station #6 to prevent an erroneous alarm condition.
30. Met with Mozingo construction and Fusion electric at Copper Cove lift station #8, the new lift station went online, and the bypass was removed.
31. Troubleshoot and repaired Copper Cove lift station #8 pump #2 fail to start alarm, adjusted the start delay in the timer relay.
32. Troubleshoot the Copper Cove lift station #6 generator trouble alarm again, Bay City made an error, inspectors to add it to the punch list and follow up on the repair.
33. Attended third party testing for the new switchgear at the West Point WWTP construction project.
34. Troubleshoot the AMI repeater on the Sheep Ranch WTP tank, the new cell modem that was received was modbus communication protocol instead of TCPIP, going to exchange for the correct modem.
35. Used remote SCADA access to change pump settings at Upper Cross Country lift station after a storm event to smooth out the pumping cycles.
36. Used remote SCADA access to diagnose a PLC problem at the Forest Meadows WWTP after a storm event.
37. Used remote SCADA access to repair an issue with the alarm database at the Forest Meadows WWTP
38. After hours emergency troubleshoot and repair of pump #1 failure to start during a storm event at Upper Cross Country lift station
39. After hours emergency repair of the PLC at the Forest Meadows WWTP, rebooted the CPU after a communication loss to the SCADA system.
40. Replaced the backwash basin float at Wallace WTP after the old float failed.
41. Troubleshoot and repaired a unit heater at the Jenny Lind WTP
42. Troubleshoot an hour meter problem in the influent VFD control panel at Jenny Lind WTP, meter had failed, ordered a new unit.
43. Troubleshoot an hour meter problem at Wallace WTP, the wells run time meter had failed, replaced with a new one.

44. Completed the annual flow meter calibrations at Jenny Lind WTP
45. Helped the mechanical staff to troubleshoot the control board in the standby generator at the Sawmill pump station.
46. Troubleshot and repaired the pond 4 telemetry radio at the Copper Cove WWTP after a power outage due to a storm event.
47. Finished the yearly flow meter calibrations in the Vallecito service area.
48. Met with Fusion Electric at the new Copper Cove lift station #8 to replace a defective circuit breaker for the pump control bucket.
49. Afterhours emergency call out, hooked up a generator at Copper Cove lift station #19 due to a storm related power outage.
50. Finished the annual flow meter calibrations in the West Point service area, including pump stations and the Wastewater Treatment plant.
51. Adjusted the cams in the diffuser valve at the Vallecito WWTP to achieve a complete closure of the valve.
52. Pulled in and terminated the battery charger and block heater circuits as well as the automatic start circuit for the standby generator at the new mechanic shop in preparation for the warranty startup of the system.
53. Installed new large wire pump feeder terminal blocks at Upper Cross-Country Lift Station for pump #1 and #2 after it was discovered that the old ones were stripping out and were very corroded.
54. Replaced the transfer switch batter at Lower Cross-Country Lift Station due to an alarm indicating the previous battery reached its end of life.
55. Tested the heater and adjusted the thermostat for the winter at the Mokelumne River pump station.
56. Wired in and tested a new blower motor at the La Contenta WWTP after the new unit was mechanically installed.
57. Added a new relay to the stop circuit for the diffuser valve at the Vallecito WWTP to prevent an erroneous alarm during the valve closing cycle.
58. Re-marked the underground electrical system lines at the Sawmill Tank site and pump station before geological drilling was performed.
59. Troubleshot and repaired a pump #3 failure at the Copper Cove WWTP headworks, discovered a level float had fallen, reattached and proper function was restored.
60. Installed new LED wallpacks to replace the old units on the Copper Cove WWTP headworks building.
61. Researched the underground electrical lines from the disconnect to an old building site at the Copper Cove WWTP for a future aerator installation.
62. Replaced the keyboard and mouse with a new wireless unit for the computer at the Hunters WTP per the operator's request.
63. Replaced a failed 500vA UPS battery for the SCADA computers at the Hunters WTP after the old battery failed.

Collections:

1. Monthly SSO online reporting completed.
2. Continued marking USA's district wide.
3. Monthly dry can inspections completed.
4. Weekly lift station inspections completed.
5. Monthly vehicle inspections completed.
6. Continued septic tanks in Mill Woods. Multiple Day effort.
7. Called out to 39 Christine Ct. Customers pump is not pumping the head required for the system.
8. Called out to new LS 18 pump 1 failure. Possible PGE issue everything checked out ok on CCWD side.
9. Called to 7371 Leslie ct. bio tube was plugged up restricting flow to the pump.
10. On call training and Cla Valve classes.
11. Pulled pump 1 at LS 2 due to being plugged with rags again.
12. Continued to pump septic tanks in Millwoods.
13. Pumped and cleaned sludge tanks at Indian Rock leach fields. (Yearly maintenance)
14. Shape serviced pumps at Upper and Lower Cross-Country Lift Stations. (Yearly maintenance)
15. Pumped manholes above Lift Station 8 for new concrete diversions manhole.
16. Called to new Lift Station 8 due to pump 1 failures.
17. Called to Woodgate LS 2 due to pump 2 failure. Possible power outage pump just needed to be reset.
18. Called to Lift Station 6 due to a general trouble alarm. Resolved.
19. Pumped septic tank at 4089 main street Vallecito.
20. Called out to Copper due to a power outage. Setup generators at LS 17 & 19.

21. Worked on issues at the Upper Cross-Country Lift Station due to power outage and generator issues causing pump 1 to fail.
22. Flushed main line below fire department in West Point. (Quarterly maintenance)
23. Pumped and cleaned Vallecito lift station. (Yearly maintenance)
24. Called to 313 Vista Del Lago Sewer main was backed up due to root intrusion.
25. Pumped and cleaned septic tank at 4589 Parrots Ferry Road.
26. Called to 4589 Main Street Vallecito. The customer was concerned the system alarm was still lit up from pumping the tank.

Construction:

1. Supported all Distribution Crews on leak repair efforts District-wide.
2. Supported the Collections Crew with the completion of work efforts District-wide.
3. Cleaned up the Bear Creek diversion access in West Point. Removed dead and downed trees.
4. Repaired the paving at the Hogan Dam Road Fill Station.
5. Onsite meeting at the tunnel tap diversion to discuss options for security.
6. Facilitated the delivery of District-owned temporary water storage tanks at Wallace. Used a backhoe to offload.
7. Repaired the public right of way and private property damaged because of the Hartvickson Main break.

Mechanical:

1. On-going work to support all Field Crews as necessary.
2. District-wide generator checks.
3. Exchanged summer tires for winter tires on multiple trucks.
4. Replaced the 90-degree boom on VacCon #746.
5. Emergency repair of the Sawmill Pump Station generator. Had to bypass the damaged control board to operate. Worked with the Cummins Tech to get the circuit board replaced quickly.
6. Replaced the Fuel Pump on VEH 720 (2017 Dodge 3500)
7. Rebuilt the brakes, corrected multiple air system leaks, brake adjustments, and 90-Day DOT inspection on VEH 748 (2019 Freightliner Dump Truck)
8. Participated in Cla-Val Training.
9. Tested all CCWD Backflow Prevention devices
10. Emergency replacement of a blower at the La Contenta WWTP.
11. Inspected and prepared the TV Van for Collections Crew use.

Utility:

1. Finished last line replacements on Baldwin for the Winter.
2. Completed compaction tests for service line installs with the county, all passed at least 97%.
3. Saw cut restoration outlays.
4. Repaired water system on paving roller.
5. Assisted Copper crew with leak repair.
6. Worked with LaContenta crew online replacement on Rippon.
7. Repaired and completed PM on paving machine.
8. Began mobilization of equipment to Poker Flat.

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