



CAZADERO COMMUNITY SERVICES DISTRICT  
PO BOX 508  
CAZADERO CA 95421-0508

Board Meeting Agenda  
May 10, 2022 ~ 6:30PM  
Location ~ Fire Station #1  
5980 Cazadero Hwy, Cazadero, CA 95421

\*\*\*\*ASSEMBLY BILL 361\*\*\*\*

\*\*RE CORONAVIRUS COVID-19\*\*

CONSISTENT WITH GOVERNMENT CODE SECTION 54953 AND DECLARATIONS OF A STATE OF EMERGENCY BY THE CALIFORNIA GOVERNOR DUE TO THE COVID-19 PANDEMIC AND ORDERS OF THE SONOMA COUNTY HEALTH OFFICER TO MINIMIZE THE SPREAD OF COVID-19, THERE WILL BE NO PHYSICAL OR IN-PERSON MEETING LOCATION AVAILABLE TO THE PUBLIC. INSTEAD, MEETINGS OF THE DISTRICT BOARD OF DIRECTORS WILL BE CONDUCTED BY TELECONFERENCE.

**The meeting will be accessible, and members of the public may participate and give public comment, either via video teleconference by accessing the following website link or via audio by dialing the teleconference call-in number and inputting the meeting ID and passcode when prompted:**

<https://us02web.zoom.us/j/85232057653?pwd=QlExL1NuTk0aG0zWkFFV1lQR2ZlQT09>  
Telephone number: 1 (669) 900-6833, Meeting ID 852 3205 7653, Passcode 939635

**PLEASE NOTE: The Cazadero Community Services District office is closed, and this meeting will be conducted entirely by teleconference.**

Should you want to submit public comment, you may do so either by commenting at the appropriate time in person if logging into the meeting or by email before Board Meeting is called to order. If emailing, please state the agenda item number that you are commenting on and limit written comments to three hundred (300) words or less. Comments can be sent to [pbarry@cazadero-csd.org](mailto:pbarry@cazadero-csd.org). Written comments received prior to the meeting will be read into the record.

*The Board meeting agenda and all supporting documents are available for public review on the website at [www.cazadero-csd.org](http://www.cazadero-csd.org)*

## CALL TO ORDER

## PLEDGE OF ALLEGIANCE

## ROLL CALL

President P. Barry

Director M. Berry

Director H. Canelis

Director D. DeBeaune

Director S. Griswold

## OPEN TIME FOR PUBLIC EXPRESSION

*This is an opportunity for any member of the public to briefly address the District Board on any matter that does not appear on this agenda and is restricted to matters within the Board's jurisdiction. Items that appear to warrant a more-lengthy presentation or Board consideration may be placed on the agenda for discussion at a future meeting. Please limit comments to three hundred (300) words.*

## AGENDA ADJUSTMENTS

*An opportunity for the Board President to approve adjustments to the current agenda.*

## DIRECTOR REPORTS

*An opportunity for Directors to report on their individual activities related to District Business.*

## STAFF REPORTS

1. Administrative Assistant
2. Fire Department and Firefighters Association Report
  - a. Operations
  - b. Administration
  - c. Training
  - d. Special Projects
3. Park & Rec Maintenance
4. Facilities

## CONSENT CALENDAR ITEMS

*These items can be acted on in one consolidated motion or may be removed from the Consent Calendar and separately considered at the request of any Director*

1. Approval of Meeting Minutes – April 12, 2022

## ACTION ITEMS

1. **Resolution 21/22-17 Proclamation of a Local Emergency for the Cazadero Community Services District, County of Sonoma, State of California, Ratifying the Proclamation of a State of Emergency by Governor Newsom on March 4, 2020, and Authorizing Remote Teleconference Meetings of the Legislative Bodies of the Cazadero**

**Community Services District for the Period May 1, 2022, Through June 1, 2022, Pursuant to Brown Act Provisions** – Discussion/Action – Teleconferenced District Board Meetings; Implementation of AB 361 Changing Brown Act Meeting Requirement; Proposed District Resolution Authorizing Remote Teleconference Meeting.

2. **Fiber Optic Grant and Emergency Communications** – Discussion/Action – Update on implementation of Emergency Radio Communications in Cazadero and how the CCSD Board can be supportive, by Tony Goodwin
3. **Playground Equipment** – Discussion/Action –

#### **DISCUSSION ITEMS**

1. **Update on Grants** – Discussion –
2. **Dept of Emergency Management evacuation drill** – Discussion – Saturday, June 18
3. **Vegetation Management** – Discussion –

#### **COMMITTEE REPORTS**

1. Park Ad Hoc 2020

#### **FINANCIAL REPORTS**

#### **COMMUNICATIONS**

1. Mail from Sonoma Local Agency Formation Commission, re: fiscal year 2022-23 preliminary budget
2. Email from County of Sonoma Board of Supervisors, re: Request from a Special District to Move to Even-Numbered Year Elections – Rains Creek Water District
3. Email from County of Sonoma Board of Supervisors, re: Request from a Special District to Move to Even-Numbered Year Elections – Forestville Water District
4. Email from Jim Berry, Cazadero Water District, re: 2021 Water Chemistry Study

#### **ADJOURNMENT**

# STAFF REPORTS

## **Fire Department**

### **Operations:**

- Chief Krausmann and Director Barry are working with Sonoma County Emergency Services to have Cazadero participate in a regional evacuation drill.
- Chief Krausmann and Assistant Chief Schanz are working on an equipment replacement plan. The plan will address the need for the Fire Department to have a Type 6 Fire Engine.

### **April 2022 Calls**

<b>Nature of Call</b>	<b>Number of Calls</b>
Medical Aid	<b>4</b>
Vegetation Fire	<b>1</b>
Hazardous Condition	1
Public Assist	<b>1</b>
Smoke Investigation	1

### **Administration**

- No Report

### **Training**

- Medical Training with Chris Ottolini May 5, 2022 @ 1900Hrs.
- S-190 Review, May 19, 2022 @ 1900Hrs.
- Fire Shelter Deployment, May 26, 2022 @ 1900 Hrs.

### **Firefighters Association**

- Next meeting is scheduled for May 12, 2022 @ 1900Hrs.

## **Facilities**

I did the usual jobs, I mopped the floors, sweep in the front, washed the windows at the entrance, cleaned the bathrooms, cleaned the kitchen, including the refrigerator, the counters, the microwave and the stove. I put the garbage out and took towels and mop heads home to wash. I swept around the fire trucks, and got cob webs down. Total hours 14.

**Nancy Caplan**

# CONSENT ITEMS



## *Cazadero Community Services District Meeting Minutes – April 12, 2022*

The Cazadero Community Services District meeting was conducted pursuant to the provisions of the Governor’s Executive Order N-29-20 which suspends certain requirements of the Ralph M. Brown Act due to the COVID-19 virus. CSD Board Members and staff participated in the meeting by zoom teleconference. Members of the public were provided a zoom and telephone call-in number to view or listen to the meeting and the opportunity to provide public comment verbally or in written format.

**1. Call to Order and Roll Call**

The regular meeting of the Cazadero CSD Board was called to order at 6:33PM on April 12, 2022. Director P. Barry led the Pledge of Allegiance. The following Directors were present: P. Barry, D. DeBeaune, and S. Griswold. Directors M. Berry and H. Canelis were absent. Chief Krausmann, AA Kulczewski, Tony Goodwin, and Mark Graham were also present.

**2. Public Comment**

None.

**3. Agenda Adjustments**

Action Item d. Fiber Optic Grant moved to 7:00 PM.

**4. Director Reports**

Director P. Barry noted that Nancy Caplan and her husband are celebrating their 50<sup>th</sup> wedding anniversary this year; updated and confirmed the street light list with PG&E and asked for a new streetlight at the park; three water tanks are staged on the hill, one is already full; getting ready to put the pump in Austin Creek behind Cazadero Supply, the creek is already very low; the siren is not going off when there is a call, the antennae contacts may need to be cleaned or we may need a new antennae.

**5. Staff Reports**

Staff reports were included in the Board packet.

AA Kulczewski reported we are still receiving bills from Westamerica Bank for the safety deposit box rental and that we need a budget committee to work on the preliminary budget

Chief Krausmann reported he is working on stipend coverage, has three shifts covered this week; bathroom remodel is about 99.9% done, just need baby changing table and placard on door; consolidation meeting coming up on May 11; there was a downed power line on Austin Creek Road, Tony Goodwin was able to use GMRS radio to contact people, was nice to have that communication.



The Call Report for March:

Nature of Call	Number of Calls
Medical Aid	3
Vegetation Fire	2
Hazardous Condition	1
Agency Assist	1

**6. Consent Calendar Items**

On a motion by Director DeBeaune, Seconded by Director Griswold, the Board moved to approve the minutes for the March 8, 2022, meeting and the financials for December 2021, and January, February, and March 2022. VOTE: 3-0-0 by roll call:

Director	Vote
P. Barry	Aye
M. Berry	Absent
H. Canelis	Absent
D. DeBeaune	Aye
S. Griswold	Aye

**7. Action Items**

**a. Resolution 21/22-15 Proclamation of a Local Emergency for the Cazadero Community Services District, County of Sonoma, State of California, Ratifying the Proclamation of a State of Emergency by Governor Newsom on March 4, 2020, and Authorizing Remote Teleconference Meetings of the Legislative Bodies of the Cazadero Community Services District for the Period April 1, 2022, Through May 1, 2022, Pursuant to Brown Act Provisions** – After Board discussion, on a motion by Director M. Berry, seconded by Director Canelis, the Board moved to approve Resolution 21/22-15. VOTE: 3-0-0 by roll call:

Director	Vote
P. Barry	Aye
M. Berry	Absent
H. Canelis	Absent
D. DeBeaune	Aye
S. Griswold	Aye

**b. Resolution 21/22-16 Ordering an election to be held and requesting consolidation with the November 8, 2022, general district election** – After Board discussion, on a motion by Director DeBeaune, seconded by Director Griswold, the Board moved to approve Resolution 21/22-16. VOTE: 3-0-0 by roll call:

Director	Vote
P. Barry	Aye
M. Berry	Absent
H. Canelis	Absent
D. DeBeaune	Aya
S. Griswold	Aye

**c. Fiber Optic Grant** – Director P. Barry reported this is a very challenging issue and that there is no ability of fiber connection at Station 2. After Board discussion, item tabled to May meeting.

**d. Emergency Communications** – Tony Goodwin and Mark Graham presented and explained redundant connectivity system, could be installed in phases, three repeaters to be installed for wider coverage. After further Board discussion, on a motion by Director Griswold, seconded

by Director DeBeaune, the Board moved to approve up to \$1,200 for purchase of components for a test platform for network security upgrade and high availability connectivity and up to \$8,500 for purchase of components for communication redundancy for Cazadero Fire Department, monies to be provided by the Sonoma County grant funds for communications resiliency during disasters (Flood Mitigation Grant) received in 2021. Item to be further discussed at May meeting. VOTE: 3-0-0 by roll call:

Director	Vote
P. Barry	Aye
M. Berry	Absent
H. Canelis	Absent
D. DeBeaune	Aya
S. Griswold	Aye

**e. Playground Equipment** – Director P. Barry reported the new merry go round arrived and is at his shop, it needs to be assembled; there will be a workday on April 30 at the playground, a tree will be taken out and the paly area expanded; ross Recreation is supposed to have a plan for the playground, he will follow up; the grant deadline is May 6. After further Board discussion, item tabled to May meeting.

**8. Discussion Items**

- a. **Update on grants** – Director P. Barry reported there is nothing nw yet, the awarding has been pushed back, possibly to next week.
- b. **Dept of Emergency Management evacuation drill** – Drill will be on Saturday, June 18. Director P. Barry reported he has been playing phone tag with George with the Department of Emergency Management of Sonoma County. Further information and discussion in May.
- c. **Vegetation Management** – Director P. Barry said there is nothing new to report.

**9. Committee Reports**

- a. **Park Ad Hoc 2020:** Discussed in Action Item e. Playground Equipment.

**10. Correspondence**

Correspondence referenced in the Board packet were reviewed.

**11. Financial Reports**

Bills totaling \$19,766.67 were presented for payment.

**12. Adjournment**

On a motion by Director Griswold, Seconded by Director DeBeaune, the Board moved to adjourn the meeting at 8:10 PM. VOTE: 3-0-0 by roll call:

Director	Vote
P. Barry	Aye
M. Berry	Absent
H. Canelis	Absent
D. DeBeaune	Aye
S Griswold	Aye

\_\_\_\_\_  
Paul Barry

\_\_\_\_\_  
Maureen Barry

\_\_\_\_\_  
Homer Canelis

\_\_\_\_\_  
Daina DeBeaune

\_\_\_\_\_  
Scott Griswold

Date: \_\_\_\_\_

# **ACTION ITEMS**



**CAZADERO COMMUNITY SERVICES DISTRICT  
PO BOX 508  
CAZADERO CA 95421-0508**

**RESOLUTION 21/22-17**

**RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE CAZADERO COMMUNITY SERVICES DISTRICT OF SONOMA COUNTY  
PROCLAIMING A LOCAL EMERGENCY EXISTS, RATIFYING THE PROCLAMATION OF A  
STATE OF EMERGENCY BY GOVERNOR NEWSOM ON MARCH 4, 2020, AND  
AUTHORIZING REMOTE TELECONFERENCE MEETINGS OF THE LEGISLATIVE BODIES  
OF THE CAZADERO COMMUNITY SERVICES DISTRICT FOR THE PERIOD MAY 1, 2022  
THROUGH JUNE 1, 2022 PURSUANT TO BROWN ACT PROVISIONS**

**WHEREAS**, the Cazadero Community Services District (“District”) is committed to preserving and nurturing public access and participation in meetings of the Cazadero Community Services District Board of Directors (“Board”); and,

**WHEREAS**, all meetings of the District’s legislative bodies are open and public, as required by the Ralph M. Brown Act (Cal. Gov. Code 54950 – 54963), so that any member of the public may attend, participate, and watch the District’s legislative bodies conduct their business; and,

**WHEREAS**, the Brown Act, Government Code section 54953(e), makes provisions for remote teleconferencing participation in meetings by members of a legislative body, without compliance with the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions; and,

**WHEREAS**, a required condition is that a state of emergency is declared by the Governor pursuant to Government Code section 8625, proclaiming the existence of conditions of disaster or of extreme peril to the safety of persons and property within the state caused by conditions as described in Government Code section 8558; and,

**WHEREAS**, that proclamation is made when there is an actual incident, threat of disaster, or extreme peril to the safety of persons and property within the jurisdictions that are within the District’s boundaries, caused by natural, technological, or human-caused disasters; and,

**WHEREAS**, that proclamation also requires that state or local officials have imposed or recommended measures to promote social distancing, or, the legislative body meeting in person would present imminent risks to the health and safety of attendees; and,

**WHEREAS**, emergency conditions exist in the District, specifically, a State of Emergency has been proclaimed by Governor Newsom on March 4, 2020, proclaiming a State of Emergency to exist in California as a result of the threat of COVID-19; and,

**WHEREAS**, during the COVID-19 pandemic, the Board has conducted remote, teleconferenced meetings consistent with the Governor’s Executive Orders promoting social distancing; and,

**WHEREAS**, consistent with AB 361, as a condition of extending the use of the provisions found in section 54953(e), the Board must reconsider the circumstances of the state of emergency that exists in the District, and the Board has done so; and,

**WHEREAS**, due to the surging Delta Variant of COVID-19, meetings in person would present imminent risk to health and safety of attendees; and,

**WHEREAS**, the Board does hereby find that the State of Emergency proclaimed by Governor Newsom on March 4, 2020, and, the Delta Variant of COVID-19 surging in Sonoma County per the Sonoma County Public Health Notice on August 2, 2021 has caused, and will continue to cause, conditions of peril to the safety of persons within the District that are likely to be beyond the control of services, personnel, equipment, and facilities of the District, and desires to affirm a local emergency exists and ratify the Proclamation of State of Emergency by the Governor of the State of California; and,

**WHEREAS**, as a consequence of the local emergency, the Board does hereby find that the legislative bodies of the District shall conduct their meetings without compliance with paragraph (3) of subdivision (b) of Government Code section 54953, as authorized by subdivision (e) of section 54953, and that such legislative bodies shall comply with the requirements to provide the public with access to the meetings as prescribed in paragraph (2) of subdivision (e) of section 54953; and,

**WHEREAS**, the District is providing teleconference access via a conference phone-line number to the meetings to ensure public access.

**NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE CAZADERO COMMUNITY SERVICES DISTRICT DOES HEREBY RESOLVE AS FOLLOWS:**

Section 1. Recitals. The Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

Section 2. Affirmation that Local Emergency Exists. The Board hereby proclaims that a local emergency now exists throughout the District, and the surging Delta Variant of COVID-19 would present an imminent risk to meeting in person.

Section 3. Ratification of Governor’s Proclamation of a State of Emergency. The Board hereby ratifies the Governor of the State of California’s Proclamation of State of Emergency, effective as of its issuance date of March 4, 2020.

**Section 4. Remote Teleconference Meetings.** The staff and legislative bodies of the District are hereby authorized and directed to take all actions necessary to carry out the intent and purpose of this Resolution including, conducting open and public meetings in accordance with Government Code section 54953(e) and other applicable provisions of the Brown Act.

**Section 5. Effective Date of Resolution.** This Resolution shall take effect immediately upon its adoption and shall be effective until the earlier of June 14, 2022 or such time the Board adopts a subsequent Resolution in accordance with Government Code section 54953(e)(3) to extend the time during which the legislative bodies of the District may continue to teleconference without compliance with paragraph (3) of subdivision (b) of section 54953.

**PASSED, APPROVED and ADOPTED** at a regular scheduled meeting of the Board of the Cazadero Community Services District held on the 10th day of May 2022, by the following roll call vote:

Director P. Barry \_\_\_\_\_  
Director M. Berry \_\_\_\_\_  
Director H. Canelis \_\_\_\_\_  
Director D. DeBeaune \_\_\_\_\_  
Director S. Griswold \_\_\_\_\_

AYES:

NOES:

ABSTAIN:

ABSENT:

Date: \_\_\_\_\_

\_\_\_\_\_  
Paul Barry, Board President

ATTEST:

\_\_\_\_\_  
Maureen Berry, Secretary of the Board

\_\_\_\_\_  
Daina DeBeaune, Director

\_\_\_\_\_  
Homer Canelis, Director

\_\_\_\_\_  
Scott Griswold, Director

# **DISCUSSION ITEMS**



# COMMITTEE REPORTS

Paul Barry <acfd1@comcast.net>

4/25/2022 4:02 PM

## Evacuation drill meeting report

To cazaderocsd@comcast.net <cazaderocsd@comcast.net> • Steve Krausmann <krausmann4@msn.com> • Steve\_ginesi@hotmail.com <steve\_ginesi@hotmail.com>

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April 25, 12:30-1:20

Jorge Rodriguez, Dept. Of Emergency Management  
Sylvia Lemus, Sonoma Co. Communications PIO  
Capt. Randy England, Highway Patrol  
Misti Wood, Sheriffs office  
Julie Atwood, 'The Halter Project' (large animal rescue)  
Tony Goodwin, Cazadero GMRS  
Paul Barry, Cazadero CSD

initial meeting to discuss event date (June 18, 2022) @ 9-11 AM  
(Fathers Day weekend)

Cazadero Fire Station 1 as command post

Area included is Ft Ross Rd to PPI across to 24000 King Ridge, down to Old Cazadero Rd @ East Austin Creek crossing, to 116.

electronic sign boards placed 3-7 days in advance

postal customers to receive notice in mailbox

posters to be distributed for public gathering locations

Social media websites will have notices as the date gets closer

event terminates at Monte Rio Community Center

Law Enforcement agencies to assist with Hi-Lo sirens

GMRS radios broadcasting throughout event

Large animal owners can bring trailers, but no live animals for drill.

Participants must register

Questionnaire's distributed to participants

after action report from all involved agencies

Next meeting: Wednesday May 18, 1300 hours

Monday June 6, 1300

Questions: (707) 565-6095. Jorge Rodriguez, DEM

P. L. Barry <cazhwy@gmail.com>

4/26/2022 8:34 AM

## Fwd: Meeting recap: Cazadero Evacuation Ex Initial Meeting

To CAZADERO COMM SVS DISTRICT <cazaderocsd@comcast.net>

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----- Forwarded message -----

From: **Jorge Rodriguez** <Jorge.Rodriguez@sonoma-county.org>

Date: Tue, Apr 26, 2022 at 08:25

Subject: Meeting recap: Cazadero Evacuation Ex Initial Meeting

To: Jorge Rodriguez <Jorge.Rodriguez@sonoma-county.org>, Jeff DuVall <Jeff.DuVall@sonoma-county.org>, Nancy A. Brown <Nancy.A.Brown@sonoma-county.org>, P. L. Barry <cazhwy@gmail.com>, Carly Cabrera <Carly.Cabrera@sonoma-county.org>, Sylvia Lemus <Sylvia.Lemus@sonoma-county.org>, Andrew Cash <Andrew.Cash@sonoma-county.org>, Tim Duke <Tim.Duke@sonoma-county.org>, Tom McNeil <Tom.McNeil@sonoma-county.org>, Juan Valencia <Juan.Valencia@sonoma-county.org>, Misti Wood <Misti.Wood@sonoma-county.org>, Jonathan Umholtz <Jonathan.Umholtz@sonoma-county.org>, Rob Houweling <ROB.HOUWELING@sonoma-county.org>, Steven Spacek <Steven.Spacek@sonoma-county.org>, skrausmann@cazadero-csd.org <skrausmann@cazadero-csd.org>, Steve Baxman <Chief5400@yahoo.com>, Steve Ginesi <Steve\_ginesi@hotmail.com>, Randy England <rengland@chp.ca.gov>, rckilgore@chp.ca.gov <rckilgore@chp.ca.gov>, Leland Montell <Leland.Montell@redcross.org>, Krausmann4@msn.com <Krausmann4@msn.com>, kn6kic@gmail.com <kn6kic@gmail.com>, rescue@halterfund.org <rescue@halterfund.org>

Greetings all,

We had a good planning meeting yesterday for the Cazadero Exercise. Thank you to those who were able to attend and we missed those who were absent.

Attached I am providing a PDF of the **\*revised\*** PowerPoint that includes some of the discussion that took place.

For those who were not able to attend, some highlights:

Date/Time of exercise: Saturday, June 18 starting at 9AM, concluding at 11AM

End meeting location/Booth area: Monte Rio Community Center

Please provide agency logo that can be used in any print type materials to: [jorge.rodriguez@sonoma-county.org](mailto:jorge.rodriguez@sonoma-county.org)

Dates for future meetings:

Mid-Planning meeting: May 18 at 1PM

Final Planning meeting: June 6 at 1PM

After-Action meeting: TBD after exercise date

Look out for these calendar invites.

Do reach out if you have questions or comments.

Jorge



## Jorge Rodriguez, CEM

Community Alert and Warning Coordinator

County of Sonoma - Department of Emergency Management

Office: (707) 565-6095 | Fax: (707) 565-1172

[www.SoCoAlert.com](http://www.SoCoAlert.com) | [www.SoCoEmergency.org](http://www.SoCoEmergency.org)

Please note NEW working hours (2022): M-W 8AM – 4:30PM/Th-F off thru April

- 
- image001.png (51 KB)
  - IPM - Cazadero Evacuation Ex.pdf (1 MB)
  - image002.png (12 KB)

# 2022 Cazadero Community Evacuation Drill

**Initial Planning Meeting**



# Welcome & Introductions

- Please mute your mics when not speaking
- Provide name and organization



# Meeting Objectives

- Confirm Date/Time Frame for Exercise
- Confirm purpose, scope and objectives
- Review exercise participants
- Review evaluation and documentation requirements
- Identify logistical needs



# Exercise Date / Time & End Location Proposed

- **Saturday, June 18**
- **9 AM – 11AM**
- **[Target alert area](#)**
- **Proposed Meeting location: Monte Rio Community Center Parking**
- **No Temporary Evacuation Point operations by County HSD, but they are welcomed to be in the booth area at the Community Center.**





# Proposed Timeline

Time	Who	Activity	Location
0700	Exercise Staff	Check-in for final instructions and communications check	Various
~0730	Community Groups	Set up	[Monte Rio Community Center]
0830	Exercise Staff	Post and Ready at locations	ICP – Cazadero FD
0900	All	Exercise starts	All
		SoCo Alert & Hi-Lo siren activations	Exercise Area
~0930		Resident start to arrive [Residents participate in booth]	[Meeting Location]
1000	All	Exercise ends – Hi/Lo ends if not already	All
By 1100	All	Break down of Community Center	[Meeting Location]

# Exercise Purpose & Scope

## Exercise Purpose

- Evaluate the abilities of local emergency response agencies to notify residents, and order evacuations. Educate and prepare the community to better respond to a wildland fire hazard.

## Exercise Scope

- This exercise is a Full-Scale Exercise in the Cazadero community of Sonoma County. Exercise play is limited to participating agencies and communities. This exercise will engage community members, local agencies and organizations and residents of Cazadero neighborhoods. The exercise is expected to last approximately two (2) hours.



# Proposed Exercise Objectives

- Safely evacuate residents from the Cazadero area to the [meeting location].
- Familiarize residents with the local area routes
- Exercise the Sonoma County Alert System (SoCoAlert) to notify participating residents.
- Facilitate residents signing up for notifications with SoCoAlert.
- Strengthen collaboration between participating agencies
- Assess Emergency Coordination plans



# Exercise Participants

- Residents of Cazadero
- Sonoma County Department of Emergency Management
- Sonoma County Sheriff's Office
- Sonoma County Regional Parks
- Sonoma County TPW
- Sonoma County HSD
- Cazadero CSD
- Cazadero Fire Department
- Fort Ross Volunteer Fire Department
- Monte Rio Fire Protection District
- Cal Fire Sonoma-Lake-Napa Unit (CALFIRE LNU)
- California Highway Patrol

Agency logo for use in public communication materials. Provide to: [Jorge.Rodriguez@sonoma-county.org](mailto:Jorge.Rodriguez@sonoma-county.org)



# Evaluation & Documents

## **Evaluation Components**

- Exercise Objectives
- Participant Feedback Survey
- Hot Wash

## **Exercise Documents**

- Exercise Plan
- Participant Feedback Survey Results
- After-Action Report / Improvement Plan (AAR/IP)



# Evacuation Exercise - Coordination Structure

WHAT	WHO
<b>Planning Team Lead(s)</b>	SoCo DEM, Cazadero CSD & Fire
<b>Safety &amp; Security</b>	Sheriff's Office (Regional Parks support)
<b>Design &amp; Development</b> <ul style="list-style-type: none"> <li>- Scenario</li> <li>- Control</li> <li>- Mapping/GIS</li> <li>- Evaluation</li> </ul>	SoCo DEM, Sheriff, Fire Depts
<b>Alert &amp; Warning</b> <ul style="list-style-type: none"> <li>- Messaging/Notifications</li> </ul>	SoCo DEM, Sheriff's Office, Regional Parks, Caz & Fort Ross FDs
<b>Communications</b> <ul style="list-style-type: none"> <li>- Participant</li> <li>- Press Release</li> <li>- Media Engagement</li> </ul>	PIO, DEM, Cazadero CSD, Community groups, Cazadero GMRS & Fire Depts
<b>Resource Support</b> <ul style="list-style-type: none"> <li>- Facility</li> <li>- Administration</li> <li>- Logistics</li> </ul>	CSD volunteers, DEM, HALTER



# Exercise Conduct and Logistics

- Alert notification
  - SoCo Alert
  - Hi-Lo Siren
- Evacuation
- Meeting location operations
- Hold After Action Review



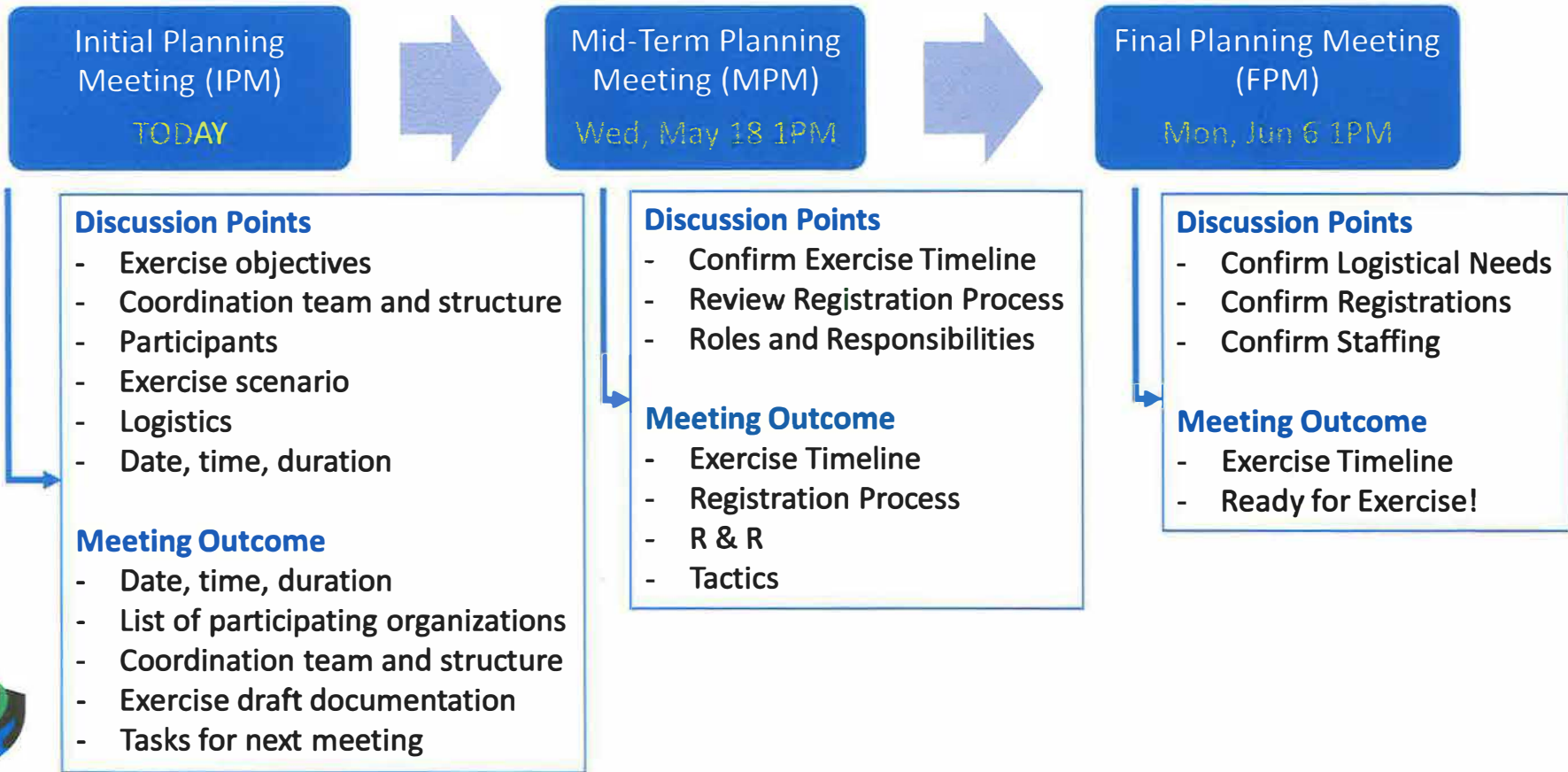
# Exercise Conduct and Logistics

- **Print Materials:**
  - Post Card mailer
  - Feedback Survey (print and digital)
  - Poster/half sheet by County for printing/positing by Cazadero CSD in local places
- **Communications:** emails about event and also animal/large animal/livestock preparedness provided by HALTER to be shared by Cazadero and posted to events page on County site
- **Registration:** online via County Events page:  
<https://socoemergency.org/get-ready/events-exercises/#1648595252278-49476678-60c6>





# Meeting Dates



# Closing

- Action Items
- Round Table
  - Cazadero
  - Public Safety Partners (SO, Fire, Regional Parks)
  - Cal FIRE / CHP
  - Sonoma County (DEM, PIO, TPW, HSD)
  - Community groups
- <https://bit.ly/36xMqQT> (Google Maps)



Questions....  
..and Comments?

Jorge Rodriguez  
(707) 565-6095

[Jorge.Rodriguez@Sonoma-County.org](mailto:Jorge.Rodriguez@Sonoma-County.org)



# FINANCIALS

**Cazadero Community Services District**  
**Bills Presented for Payment**  
**April 13 through May 10, 2022**

Date	Num	Name	Amount
<b>Apr 13 - May 10, 22</b>			
04/16/2022	EFT	Comcast	-199.38
04/28/2022	EFT	Comcast	-167.25
04/15/2022	EFT	Recology Sonoma Marin	-46.95
04/20/2022	EFT	Recology Sonoma Marin	-397.44
05/10/2022	EFT	Frontier Communications	-239.44
05/10/2022	EFT	Frontier Communications	-235.66
05/10/2022	EFT	Frontier Communications	-67.08
05/02/2022	EFT	P. G. & E.	-87.47
05/02/2022	EFT	P. G. & E.	-292.57
05/09/2022	EFT	P. G. & E.	-414.06
04/22/2022	E-pay	EDD	-125.02
04/22/2022	E-pay	EDD	-231.37
05/10/2022	E-pay	EFTPS	-716.66
05/01/2022	10039	Schanz, Eric E.	-461.75
05/01/2022	10040	Caplan, Nancy K.	-415.57
05/01/2022	10041	Dewart, Alan	-646.45
05/01/2022	10042	Endsley, Stephanie R	-1,425.60
05/01/2022	10043	Krausmann, Steven M	-1,275.75
05/01/2022	10044	Kulczewski, Sharon	-944.15
05/01/2022	10045	Norton, Sean R.	-554.10
05/01/2022	10046	Rebentisch, Delton	-184.70
05/01/2022	10047	Schanz, Eric E.	-461.75
05/01/2022	10048	Shane, Stephen	-184.70
05/10/2022	10049	Bank of America Business ...	-583.98
05/10/2022	10050	BridgeCom Systems	-4,332.14
05/10/2022	10051	Caplan, Nancy	-11.07
05/10/2022	10052	Cazadero Supply	-438.97
05/10/2022	10053	Christian Ottolini	-375.00
05/10/2022	10054	Complete Welders Supply	-76.90
05/10/2022	10055	Federal Licensing, Inc	-2,159.00
05/10/2022	10056	L. N. Curtis & Sons	-2,052.60
05/10/2022	10057	Law Offices of William D. R...	-1,000.00
<b>Apr 13 - May 10, 22</b>			<b>-20,804.53</b>

# **CORRESPONDENCE**

# SONOMA LOCAL AGENCY FORMATION COMMISSION

111 SANTA ROSA AVENUE, SUITE 240, SANTA ROSA, CA 95404

(707) 565-2577

www.sonomalafco.org

April 16, 2022

TO: County Administrator, County of Sonoma  
City Managers  
Clerks to Boards of Directors of Independent Special Districts

FROM: Cynthia Olson, Senior Administrative Analyst

SUBJECT: Sonoma LAFCO Approved Fiscal Year 2022-23 Preliminary Budget

At its meeting on April 6, 2022, the Sonoma Local Agency Formation Commission (LAFCO or Commission) adopted its Fiscal Year 2022-23 Preliminary Budget, after a noticed public hearing and upon recommendation of the Commission's Budget Committee and staff. The Commission directed staff to circulate the approved Preliminary Budget to our funding agencies.

The Commission's consideration of the 2022-23 Final Budget will take place at a Public Hearing on June 1, 2022. The Final Budget will become effective on July 1. Comments are welcome at any time, either to Commissioners or staff.

## **Expenditures**

The 2022-23 approved Preliminary Budget projects expenditures at \$951,245, a 3% increase from the current-year Adopted Budget of \$933,836. Salaries and benefits for 3.70 FTE staff are projected to increase by approximately 1% next year, changing from \$753,438 in the current year to \$761,096 next year. The proposed Services and Supplies costs will increase by approximately 5%, from \$180,398 to \$190,149, due primarily to the cost of the Commission's biennial audit.

## **Revenues and Fund Balance**

Revenues to fund Commission operations come largely from apportionments from funding agencies. The County and the cities, as a whole, each pay 40 percent of the operational cost, and independent special districts, as a whole, contribute 20 percent. A small amount of funds accrues from interest on invested cash. Finally, Commission staff tracks processing fee revenues but does not budget for them due to the difficulty of projecting the number and type of applications that could be submitted in a future year.

The Commission also maintains a Fund Balance to meet unexpected or unforeseen needs. The Commission has committed \$182,107 of the Fund Balance to offset agency apportionments for FY 2022-23.

Apportionments for the upcoming year are projected to increase by 3%, reflected as follows:

- County \$305,656
- Cities, as a whole \$305,656
- Independent Special Districts, as a whole \$152,827

Agency apportionments are based on the most recent revenues reported to the State Controller's Office. Apportionments will be determined subsequent to the Commission's approval of the 2022-23 Final Budget in June. The Auditor's Office will bill agencies after the beginning of the new fiscal year.

A staff report providing more information about the Sonoma LAFCO Fiscal Year 2022-23 Preliminary Budget is available on the Commission's website at <https://sonomalafo.org/regular-commission-meeting-april-6-2022> . A spreadsheet of the 2022-23 Preliminary Budget is attached.

If your agency has comments or questions about the Commission's Fiscal Year 2022-23 Preliminary Budget, please contact Mark Bramfitt at (707) 565-3765 or at [mark.bramfitt@sonoma-county.org](mailto:mark.bramfitt@sonoma-county.org) or Cynthia Olson at (707) 565-2587 or [cynthia.olson@sonoma-county.org](mailto:cynthia.olson@sonoma-county.org) prior to the Commission's June 1, 2022, hearing.

#### Attachments



**SONOMA LAFCO  
PRELIMINARY FY 2022-23 BUDGET  
APRIL 6, 2022**

**EXPENDITURES- SALARIES AND BENEFITS**

Account	Description	2021-22 Adopted	2021-22 To Date	2021-22 Year End Projections	2022-23 Proposed*	Difference
50101	Regular Earnings	\$ 421,917	\$ 113,232	\$ 249,821	\$ 438,170	\$ 16,253
50110	Cash Allowance	\$ 26,653	\$ 6,235	\$ 13,577	\$ 26,653	\$ -
50114	Bds & Commissions	\$ 9,600	\$ 800	\$ 4,300	\$ 9,600	\$ -
50201/04	County Retirement	\$ 174,328	\$ 40,509	\$ 94,524	\$ 157,719	\$ (16,609)
50205	FICA/Medicare	\$ 32,458	\$ 7,919	\$ 19,009	\$ 33,846	\$ 1,387
50301	Health Insurance	\$ 55,387	\$ 11,148	\$ 25,136	\$ 60,951	\$ 5,564
50502	Deferred Compensation	\$ 15,813	\$ 4,259	\$ 9,204	\$ 16,443	\$ 630
50304	HRA	\$ 3,270	\$ 816	\$ 1,757	\$ 3,270	\$ 0
50306	Disability	\$ 2,600	\$ 686	\$ 1,500	\$ 2,695	\$ 96
50307	Dental Insurance	\$ 4,004	\$ 607	\$ 1,804	\$ 3,995	\$ (9)
50308	Life Insurance	\$ 607	\$ 161	\$ 352	\$ 632	\$ 25
50309	Vision Insurance	\$ 662	\$ 158	\$ 356	\$ 662	\$ -
50310	Unemploy. Insurance	\$ 104	\$ 27	\$ 57	\$ 155	\$ 51
50401	Workers Compensation	\$ 5,927	\$ 1,595	\$ 3,486	\$ 6,209	\$ 282
50501	Other Expenses	\$ 108	\$ 21	\$ 51	\$ 97	\$ (12)
<b>Total Salaries and Benefits</b>		<b>\$ 753,438</b>	<b>\$ 188,173</b>	<b>\$ 424,933</b>	<b>\$ 761,096</b>	<b>\$ 7,658</b>

\*Based on total of 3.7 FTE positions (1.0 EO, 1.0 Analyst III 1.0 Clerk and 0.7 Analyst III)

**SERVICES AND SUPPLIES**

Account	Description	2021-22 Adopted	2021-22 To Date	2021-22 Year End Projections	2022-23 Proposed	Difference
51206	Auditing Services	\$ -	\$ -	\$ 7,000	\$ 15,000	\$ 15,000
51207	Auditor Accting Svces	\$ 5,000	\$ 1,402	\$ 5,000	\$ 5,000	\$ -
51211	Legal Services	\$ 25,000	\$ 8,390	\$ 15,000	\$ 25,000	\$ -
51249	Professional Services	\$ 35,000	\$ 18,703	\$ 30,000	\$ 35,000	\$ -
51301	Legal Notices	\$ 5,000	\$ 619	\$ 2,000	\$ 2,500	\$ (2,500)
51421	Rents & Leases	\$ 45,150	\$ 28,762	\$ 44,500	\$ 45,500	\$ 350
51602	Travel Expense	\$ 5,000	\$ -	\$ -	\$ 5,000	\$ -
51605	Private Car Expense	\$ 500	\$ -	\$ -	\$ 500	\$ -
51901/02	Communications	\$ 2,600	\$ 2,249	\$ 2,400	\$ 2,600	\$ -
51904	ISD-Data Processing	\$ 26,000	\$ 28,672	\$ 22,000	\$ 26,000	\$ -
51905	Info Systems -Develop.	\$ 500	\$ -	\$ -	\$ 500	\$ -
51906	ISD-Supp. Website	\$ 500	\$ 1,650	\$ -	\$ 1,000	\$ 500
51911	Postage	\$ 2,000	\$ 2	\$ 500	\$ 1,000	\$ (1,000)
51915	Printing	\$ 1,000	\$ -	\$ -	\$ 500	\$ (500)
51916	County Services	\$ 12,500	\$ 690	\$ 11,800	\$ 11,000	\$ (1,500)
52091	Memberships	\$ 7,848	\$ 7,848	\$ 7,848	\$ 8,233	\$ 385
52111	Office Expense	\$ 5,000	\$ 2,003	\$ 3,000	\$ 4,000	\$ (1,000)
52181	Business Meals/Supplies	\$ -	\$ -	\$ -	\$ -	\$ -
57015	Major Equip. Replace.	\$ 1,800	\$ 1,050	\$ 1,816	\$ 1,816	\$ 16
<b>Total Services &amp; Supplies</b>		<b>\$ 180,398</b>	<b>\$ 102,040</b>	<b>\$ 152,864</b>	<b>\$ 190,149</b>	<b>\$ 9,751</b>
<b>Total Expenditures</b>		<b>\$ 933,836</b>	<b>\$ 290,213</b>	<b>\$ 577,797</b>	<b>\$ 951,245</b>	<b>\$ 17,409</b>

**SONOMA LAFCO  
PRELIMINARY FY 2022-23 BUDGET  
APRIL 6, 2022**

**REVENUES**

Account	Revenue Source	2021-22 Adopted	2021-22 To Date	2021-22 Year End Projections	2022-23 Proposed
42601	County	\$ 296,753	\$ 296,753	\$ 296,753	\$ 305,656
42627	Special Districts	\$ 148,376	\$ 145,434	\$ 148,376	\$ 152,827
42628	Cities	\$ 296,753	\$ 296,753	\$ 296,753	\$ 305,656
<b>Total Intergovernmental Revenue</b>		<b>\$ 741,882</b>	<b>\$ 738,940</b>	<b>\$ 741,882</b>	<b>\$ 764,138</b>
44002	Interest Pooled Cash	\$ 10,000	\$ 2,428	\$ 5,000	\$ 5,000
<b>Total Use of Money/Property</b>		<b>\$ 10,000</b>	<b>\$ 2,428</b>	<b>\$ 5,000</b>	<b>\$ 5,000</b>
45061	Fees for Services	\$ -	\$ 36,661	\$ 40,000	\$ -
<b>Total Charges for Services</b>		<b>\$ -</b>	<b>\$ 36,661</b>	<b>\$ 40,000</b>	<b>\$ -</b>
<b>Total Projected Revenues</b>		<b>\$ 751,882</b>	<b>\$ -</b>	<b>\$ 786,882</b>	<b>\$ 769,138</b>
Use of Fund Balance		\$ 181,954		\$ (209,085)	\$ 182,107
<b>Total Revenue Sources</b>		<b>\$ 933,836</b>	<b>\$ -</b>	<b>\$ 577,797</b>	<b>\$ 951,245</b>

**FUND BALANCE**

<b>Beginning 2020-21 Fund Balance</b>	<b>\$ 509,043</b>
Added to 2020-21 Fund Balance	\$27,526
<b>Beginning 2021-22 Fund Balance</b>	<b>\$ 536,569</b>
Projected Addition to Fund Balance	\$ 209,085
<b>Projected Beginning 2022-23 Fund Balance</b>	<b>\$ 745,654</b>
Projected Use of Fund Balance	\$ 182,107
<b>Projected Remaining Fund Balance</b>	<b>\$ 563,547</b>

COUNTY OF SONOMA  
BOARD OF SUPERVISORS

575 ADMINISTRATION DRIVE, R.M. 100A  
SANTA ROSA, CALIFORNIA 95403

(707) 565-2241  
FAX (707) 565-3778



MEMBERS OF THE BOARD

JAMES GORE  
CHAIR

CHRIS COURSEY  
VICECHAIR

SUSAN GORIN

DAVID RABBITT

LYNDA HOPKINS

April 14, 2022

*Via U.S. Mail*

Re: Request from a Special District to Move to Even-Numbered Year Elections

To Whom It May Concern:

Our office is notifying you, as required by Section 10404 of the Elections Code, that a special district has submitted a resolution to the Board of Supervisors to change their regularly scheduled elections for governing board members from odd-numbered years to even-numbered years. The Rains Creek Water District has adopted a resolution to move to even-numbered elections in November 2024, thereby extending the terms of office of all current Board members by one year.

Copies of the resolutions from the above-named special district requesting the change are available for review in the Clerk of the Board Office. The Sonoma County Registrar of Voters will be advising the Board of Supervisors that it will be able to facilitate the requested change.

Pursuant to Section 10404 of the Elections Code, the Board of Supervisors is now offering you the option of providing input regarding the effect of the move. However, you are not required to submit input. Comments on the plans submitted by the above-named special districts can be presented at the April 19, 2022, Board of Supervisors' meeting, or written comments may be submitted to the Clerk of the Board, to be received no later than 12:00 p.m. on Monday, April 18, 2022. Written comments are to be submitted to the Clerk of the Board, 575 Administration Drive, Room 100A, Santa Rosa, CA 95403. The start time of the April 19, 2022 meeting can be obtained by viewing the posted agenda online at <https://sonoma-county.legistar.com/Calendar.aspx> or by calling the Clerk of the Board office at 707-565-2241.

Sincerely,

Caren Larkin  
Agenda Analyst  
County of Sonoma

COUNTY OF SONOMA  
BOARD OF SUPERVISORS

575 ADMINISTRATION DRIVE, RM. 100A  
SANTA ROSA, CALIFORNIA 95403

(707) 565-2241  
FAX (707) 565-3778



MEMBERS OF THE BOARD

JAMES GORE  
CHAIR

CHRIS COURSEY  
VICE CHAIR

SUSAN GORIN

DAVID RABBITT

LYNDA HOPKINS

May 4, 2022

*Via U.S. Mail and Email*

Re: Request from Special Districts to Move to Even-Numbered Year Elections

To Whom It May Concern:

Our office is notifying you, as required by Section 10404 of the Elections Code, that a special district has submitted a resolution to the Board of Supervisors to change their regularly scheduled elections for governing board members from odd-numbered years to even-numbered years. The Forestville Water District has adopted a resolution to move to even-numbered elections in November 2022, thereby shortening the terms of office of all current Board members by one year.

Copies of the resolutions from the above-named special district requesting the change are available for review in the Clerk of the Board Office. The Sonoma County Registrar of Voters will be advising the Board of Supervisors that it will be able to facilitate the requested change.

Pursuant to Section 10404 of the Elections Code, the Board of Supervisors is now offering you the option of providing input regarding the effect of the move. However, you are not required to submit input. Comments on the plans submitted by the above-named special districts can be presented at the May 17, 2022, Board of Supervisors' meeting, or written comments may be submitted to the Clerk of the Board, to be received no later than 12:00 p.m. on Monday, May 16, 2022. Written comments are to be submitted to the Clerk of the Board, 575 Administration Drive, Room 100A, Santa Rosa, CA 95403. The start time of the May 17, 2022 meeting can be obtained by viewing the posted agenda online at <https://sonoma-county.legistar.com/Calendar.aspx> or by calling the Clerk of the Board office at 707-565-2241.

Sincerely,

Caren Larkin  
Agenda Analyst  
County of Sonoma

---

**From:** Jim Berry  
**Sent:** Wednesday, April 20, 2022 12:14 PM  
**To:** Max Hofmarcher <[MHofmarcher@rcac.org](mailto:MHofmarcher@rcac.org)>  
**Subject:** 2021-Caz. Water Chemistry Study

Hello all,

Here is the study which I did for the entire year of 2021 to see what the water chemistry might be for 5 sources and 3 tank outlets. Jim

---

- 2022- Caz. Water Chemistry Study-17 pages.pdf (6 MB)

## Cazadero Water Chemistry-2021

### Bei Horiz.—Potential Corrosion Parameters

#### Instrument Agera PC 60 plus Brelje and Race-Far West lab. Reports

Date	pH	Cel- cius	Con- duct	Total Diss. Solids	Salt	Total Alkal.	Calci um	NTU	Data	Lang. Index
1/15/03	6.7		200	141		82		0.76	B&R/JMB	
4/3/09	6.5		140	77		64			B&R/JMB	
1/11/21	6.45	13.7	246	176	0.12				RRU/JMB	
1/17/21	6.69	20.9	232	165	0.12				RRU/JMB	
1/25/21	6.50	13.6	192	137	0.09				RRU/JMB	
3/29/21	6.70	17.3	149	107	0.08			0.64	RRU/JMB	
4/6/21	6.79	11.6	152	108	0.11			0.71	RRU/JMB	
4/20/21	6.64	17.9	154	111	0.08			0.61	RRU/JMB	
4/26/21	6.68	14.7	169	120	0.08			0.76	RRU/JMB	
5/3/21	6.83	22.9	176	126	0.09			1.80	RRU/JMB	
5/10/21	6.61	26.6	165	117	0.08			0.69	RRU/JMB	
5/17/21	6.57	19.7	150	107	0.08			0.47	RRU/JMB	
5/24/21	6.61	22.1	174	123	0.09			2.74	RRU/JMB	
5/31/21	6.56	24.5	171	122	0.09			3.01	RRU/JMB	
6/7/21	6.59	22.1	168	120	0.08			0.86	RRU/JMB	
6/14/21	6.67	21.6	161	114	0.08			3.45	RRU/JMB	
6/21/21	6.66	19.0	162	115	0.08			1.45	RRU/JMB	
6/29/21	6.68	24.0	206	146	0.10			6.50	RRU/JMB	
7/5/21	6.67	22.2	173	123	0.09			1.43	RRU/JMB	
7/12/21	6.67	25.6	163	117	0.08			4.54	RRU/JMB	
7/20/21	6.82	20.6	164	116	0.08			0.46	RRU/JMB	
7/26/21	6.88	18.2	172	123	0.09			1.78	RRU/JMB	
8/2/21	6.76	21.3	169	120	0.08			0.85	RRU/JMB	
8/9/21	6.86	18.9	165	117	0.08			0.08	RRU/JMB	
8/16/21	6.82	21.9	169	120	0.08			2.47	RRU/JMB	
8/23/21	6.87	18.6	168	120	0.08			1.51	RRU/JMB	
8/30/21	6.77	16.3	157	111	0.08			1.63	RRU/JMB	
9/6/21	6.95	25.6	174	124	0.09			1.84	RRU/JMB	
9/13/21	6.85	17.1	171	125	0.09			4.23	RRU/JMB	
9/20/21	6.86	21.7	170	121	0.08			6.52	RRU/JMB	
9/27/21	6.88	15.8	158	113	0.08			1.18	RRU/JMB	
10/4/21	6.89	24.5	170	121	0.08			1.58	RRU/JMB	
10/11/21	6.99	16.6	162	116	0.08			1.79	RRU/JMB	
10/18/21	6.99	13.9	163	116	0.08			0.55	RRU/JMB	
10/25/21	7.03	15.8	157	111	0.08			1.24	RRU/JMB	
11/2/21	7.08	16.9	162	115	0.08			0.60	RRU/JMB	
11/8/21	7.18	14.0	152	108	0.08			0.52	RRU/JMB	

Bei Horizontal continued										
11/15/21	7.14	17.9	142	101	0.07			0.38	RRU/JMB	
11/22/21	7.11	15.2	151	107	0.08			0.39	RRU/JMB	
11/29/21	7.10	15.2	159	113	0.08			0.34	RRU/JMB	
12/7/21	7.64	15.8	284	204	0.14			0.58	RRU/JMB	
12/13/21	7.64	14.2	245	174	0.12			1.82	RRU/JMB	
12/20/21	7.65	13.6	229	163	0.11			1.62	RRU/JMB	
12/27/21	7.63	11.4	238	169	0.12			1.52	RRU/JMB	
1/2/22	7.68	9.9	235	166	0.12			0.63	RRU/JMB	
Average	6.89	18.3	178	126	0.09			1.53	RRU/JMB	0
Range	6.45	9.9	140	101	0.07			0.08		
	To	To	To	To	To			To		
	7.68	25.6	284	204	0.14			6.52		

# Cazadero Water Chemistry-2021

## Buckeye Horiz. -Potential Corrosion Parameters

Instrument-Apera PC 60 (RRU) plus Brelje- Race Lab. & Far West Lab.

Date	pH	Cel- cius	Con- duct.	Total Diss. Solids	Salt or Na.	Total Alkal	CA	NTU	Data	Lang. Index
5/14/97	6.7		233	235	7.7	108	29		FW/JMB	
10/13/99	6.4		301	184	8.7	163	40	.14	FW/JMB	10.58
11/18/99			235	100		108			FW/JMB	
1/15/03	6.7		302	196	9.9	168	46	.21	B&R/JMB	11.0
11/18/03	6.7		200	141		108	46	.21	B&R/JMB	
5/05/06	7.1		229	151	8.0	115	44		B&R/JMB	
03/09/09	6.5		240	140		120	29	.70	B&R/JMB	
03/15/12	7.2		270	160	10	130	25		B&R/JMB	11.1
3/15/18	6.7		250	150		110	20		B&R/JMB	10
3/22/19	6.3		200	110	4.6	82	19		B&R/JMB	9.9
1/11/21	6.91	11.9	293	211	0.12				RRU/JMB	
1/17/21	7.15	15.4	281	200	0.14				RRU/JMB	
1/25/21	7.08	12.6	296	211	0.15				RRU/JMB	
2/1/21	6.97	12.3	304	216	0.15				RRU/JMB	
2/9/21	6.79	16.5	308	220	0.16				RRU/JMB	
2/15/21	6.84	15.2	302	215	0.15				RRU/JMB	
2/22/21	6.89	20	315	224	0.16				RRU/JMB	
3/1/21	6.79	12.3	306	219	0.15				RRU/JMB	
3/8/21	7.08	12.7	312	222	0.16				RRU/JMB	
3/15/21	7.11	10.4	308	219	0.15			0.86	RRU/JMB	
3/22/21	7.08	14.8	237	168	0.12			0.68	RRU/JMB	
3/29/21	7.10	19.9	313	223	0.16			0.58	RRU/JMB	
4/6/21	7.55	12.2	315	225	0.16			0.32	RRU/JMB	
4/20/21	7.00	19.1	288	205	0.14			0.61	RRU/JMB	
4/26/21	7.23	16.2	306	219	0.15			0.54	RRU/JMB	
5/3/21	7.09	12.7	315	224	0.16			0.65	RRU/JMB	
5/10/21	6.98	18.1	343	241	0.17			0.31	RRU/JMB	
5/17/21	7.17	24.9	318	226	0.16			0.64	RRU/JMB	
5/24/21	7.15	20.6	315	224	0.16			0.35	RRU/JMB	
5/31/21	7.26	25.0	317	225	0.16			0.39	RRU/JMB	
6/7/21	7.27	22.5	443	316	0.22			0.95	RRU/JMB	



Buckeye Horizontal continued										
6/14/21	7.34	23.0	322	227	0.16			1.16	RRU/JMB	
6/21/21	7.24	21.6	391	207	0.14			0.39	RRU/JMB	
6/29/21	7.25	24.1	270	189	0.13			0.37	RRU/JMB	
7/5/21	7.27	22.5	225	231	0.16			0.97	RRU/JMB	
11/2/21	7.38	16.3	301	214	0.15			1.14	RRU/JMB	
11/8/21	7.62	14.0	331	234	0.17			0.52	RRU/JMB	
11/15/21	7.49	15.4	309	220	0.16			0.32	RRU/JMB	
11/22/21	7.47	14.8	310	220	0.15			0.42	RRU/JMB	
11/29/21	7.45	14.1	314	323	0.16			0.43	RRU/JMB	
12/7/21	7.42	15.5	305	216	0.15			0.42	RRR/JMB	
12/13/21	7.64	16.9	312	222	0.16			0.71	RRR/JMB	
12/20/21	7.73	13.5	292	208	0.15			0.42	RRR/JMB	
12/27/21	7.32	13.4	242	172	0.12			0.97	RRR/JMB	
1/2/22	7.30	12.9	221	157	0.11			0.68	RRR/JMB	
Average										
	7.01	16.2	297	214		121	33	0.61	RRR/JMB	10.5
	6.79 To 7.73	11.9 To 24.9	200 To 443			82lab To 168	19 To 46 lab	0.31 To 1.16	RRR/JMB	

# Cazadero Water Chemistry-2021

## Buckeye Tank Outlet-Potential Corrosion Parameters

Instrument-Apera PC 60 (RRU) plus Brelje- Race Lab. & Far West Lab.

Date	pH	Cel- cius	Con- duct.	Total Diss. Solids	Salt or Na.	Total Alkal	CA	NTU	Data from	Lan. Ind.
4/27/94	7.6		200	79	5.7	102	26	0.33	FW/JMB	
5/18/11			200	130		88			B&R/JMB	
8/12/11	7.1		220	130		94	26		B&R/JMB	
1/8/21	7.15	14.3	285	202	0.14				RRU/JMB	
1/17/21	7.32	15.2	345	240	0.17				RRU/JMB	
1/25/21	7.53	8.3	314	226	0.16				RRU	
2/1/21	7.32	10.7	270	192	0.14				RRU	
2/9/21	7.48	12.4	295	209	0.15				RRU	
2/15/21	7.36	14.5	267	190	0.13				RRU	
2/22/21	7.13	13.9	254	180	0.13				RRU	
3/1/21	7.16	10.2	251	178	0.13				RRU	
3/8/21	7.40	11.1	244	173	0.12			0.79	RRU	
3/15/21	7.61	10.0	333	238	0.17			0.59	RRU	
3/22/21	7.11	13.1	233	165	0.12			0.72	RRU	
3/29/21	7.30	13.0	248	176	0.12			1.20	RRU	
4/6/21	7.38	12.8	270	196	0.14			0.85	RRU	
4/12/21	7.28	14.8	234	169	0.12			0.36	RRU	
4/20/21	7.33	16.9	224	161	0.11			0.38	RRU	
4/26/21	7.41	12.4	244	174	0.12			0.44	RRU	
5/3/21	7.17	18.4	234	166	0.11			0.42	RRU	
5/17/21	7.63	17.1	319	226	0.16			0.56	RRU	
5/24/21	7.55	15.3	274	185	0.14			0.53	RRU	
5/31/21	7.39	22.3	273	194	0.14			0.54	RRU	
6/14/21	7.44	17.7	290	206	0.15			0.69	RRU	
6/21/21	7.49	18.0	399	289	0.19			0.74	RRU	
6/29/21	7.60	17.6	308	219	0.15			0.40	RRU	
7/5/21	7.27	22.5	325	231	0.16			0.97	RRU	
7/12/21	7.67	14.7	415	294	0.21			0.98	RRU/JMB	
7/20/21	7.69		319	227	0.16			0.66	RRU/JMB	
7/26/21	7.79	18.0	380	268	0.19			0.80	RRU/JMB	
8/2/21	7.78	19.0	467	332	0.23			0.44	RRU/JMB	

Buckeye Outlet continued										
8/9/21	7.66	16.9	342	244	0.17			0.73	RRU/JMB	
8/23/21	7.90	17.2	350	249	0.18			0.80	RRU/JMB	
8/30/21	7.96	16.4	356	253	0.18			1.08	RRU/JMB	
9/6/21	7.87	17.9	358	255	0.18			0.65	RRU/JMB	
9/13/21	7.87	21.5	448	304	0.21			0.74	RRU/JMB	
9/20/21	8.06	23.1	386	275	0.19			1.22	RRU/JMB	
9/27/21	7.24	15.7	134	95	0.07			0.45	RRU/JMB	
10/4/21	8.04	8.04	383	273	0.19			0.61	RRU/JMB	
10/11/21	7.99	15.6	419	297	0.20			1.35	RRU/JMB	
10/18/21	8.19	14.3	472	226	0.23			2.22	RRU/JMB	
10/25/21	8.04	15.2	377	267	0.19			0.84	RRU/JMB	
11/2/21	7.54	16.7	315	223	0.16			0.67	RRU/JMB	
11/15/21	7.37	15.8	251	178	0.13			0.08	RRU/JMB	
11/22/21	7.45	12.2	219	156	0.11			1.03	RRU/JMB	
12/7/21	7.64	15.8	284	204	0.14			0.58	RRR/JMB	
12/13/21	7.64	14.2	245	174	0.12			1.82	RRU/JMB	
12/20/21	7.68	13.6	229	163	0.11			1.62	RRU/JMB	
12/27/21	7.62	11.4	238	169	0.12			1.52	RRU/JMB	
1/2/22	7.68	11.4	235	166	0.12			0.63	RRU/JMB	
Average										
Average	7.40	14.2	293	214	0.15			0.81	RRU/JMB	
Range										
Range	7.11	8.3	134	95	0.11			0.36	RRU/JMB	0
	To	To	To	To	To			To		
	8.19	23.1	472	332	0.23			2.22		

# Cazadero Water Chemistry-2021

## Buckeye Vertical 01-Potential Corrosion Parameters

Instrument-Apera PC 60 (RRU) plus Brelje- Race Lab. & Far West Lab.

Date	pH	Cel- cius	Con- duct.	Total Diss. Solids	Salt or Na.	Total Alkal	Calc	NTU	Data From	Lang. Index
1/3/79	7.3		260	120		100	24		FW	
4/9/09	6.4		180	95	5.7	82	12		B&R/JMB	
2/24/10	6.7		160	100	6.0	72	12		B&R/JMB	
3/27/13	7.7		180	98	6.1	78	9.3		B&R/JMB	
5/12/16	6.3		160	110	4.8	82	7.6		B&R/JMB	
5/26/17	6.2		160	83	4.8	66	7.5		B&R/JMB	
3/22/19	6.1		140	56	1.0	54	7.5		B&R/JMB	9.1
12/21/20	6.6		310	160		120			B&R/JMB	
1/8/21	7.02	16	303	217	0.15				RRU/JMB	
1/17/21	7.15	15.4	281	200	0.14				RRU/JMB	
1/25/21	7.06	10	259	185	0.13				RRU/JMB	
2/1/21	7.12	9.2	389	277	0.20				RRU/JMB	
2/9/21	6.81	13.4	260	182	0.13				RRU/JMB	
2/22/21	6.94	12.3	250	175	0.13				RRU/JMB	
3/1/21	7.31	7.3	240	171	0.12				RRU/JMB	
3/8/21	7.31	11.9	460	330	0.12			1.2	RRU/JMB	
3/15/21	6.93	13.0	230	164	0.12			0.49	RRU/JMB	
3/20/21	7.13	12.3	240	171	0.12			0.50	RRU/JMB	
3/29/21	6.75	21.6	237	168	0.12			0.63	RRU/JMB	
4/6/21	6.93	10.7	224	159	0.11			0.54	RRU/JMB	
4/12/21	7.08		240	170	0.12			2.09	RRU/JMB	
4/20/21	6.91	17.9	216	153	0.11			0.49	RRU/JMB	
4/26/21	7.30	14.0	352	252	0.12			0.35	RRU/JMB	
5/3/21	6.97	18.5	621	462	0.30			0.44	RRU/JMB	
5/10/21	7.75	17.4	650	469	0.32			0.48	RRU/JMB	
5/17/21	7.28	14.5	289	206	0.14			0.53	RRU/JMB	
5/24/21	7.35	15.1	287	204	0.14			1.72	RRU/JMB	
5/31/21	7.25	19.0	338	245	0.18			0.58	RRU/JMB	
6/7/21	7.08	25.7	283	202	0.14			0.58	RRU/JMB	
6/14/21	7.42	18.1	282	200	0.14			0.46	RRU/JMB	
6/21/21	7.20	20.8	276	197	0.14			0.61	RRU/JMB	

Buckeye Vertical 01-continued										
6/29/21	7.42	18.5	394	286	0.20			1.04	RRU/JMB	
7/5/21	7.39	18.9	354	251	0.18			0.44	RRU/JMB	
7/12/21	7.22	28.9	320	230	0.16			0.72	RRU/JMB	
7/20/21	7.39	22.2	320	228	0.15			1.35	RRU/JMB	
7/26/21	7.47	19.7	330	235	0.16			0.70	RRU/JMB	
8/2/21	7.32	22.9	329	234	0.16			0.55	RRU/JMB	
8/9/21	7.49	17.3	342	241	0.17			0.49	RRU/JMB	
8/16/21	7.29	26.6	332	233	0.16			0.48	RRU/JMB	
8/23/21	7.54	18.6	483	343	0.24			0.64	RRU/JMB	
8/30/21	7.61	18.4	282	188	0.15			0.86	RRU/JMB	
9/6/21	7.83	18.7	432	307	0.21			0.80	RRU/JMB	
9/13/21	7.53	23.1	365	259	0.18			0.50	RRU/JMB	
9/20/21	7.63	29.3	441	312	0.22				RRU/JMB	
9/27/21	7.72	17.3	444	315	0.22			0.49	RRU/JMB	
10/4/21	7.71	18.3	391	278	0.20			0.40	RRU/JMB	
10/11/21	7.74	17.3	361	257	0.18			0.27	RRU/JMB	
10/18/21	7.66	15.1	365	259	0.18			0.25	RRU/JMB	
10/25/21	7.94	15.8	347	246	0.17			1.73	RRU/JMB	
11/2/21	7.45	17.7	360	255	0.18			1.66	RRU/JMB	
11/8/21	7.23	13.6	291	207	0.15			0.48	RRU/JMB	
11/15/21	6.98	18.8	243	173	0.12			0.69	RRU/JMB	
11/22/21	7.31	14.6	259	185	0.13			2.72	RRU/JMB	
11/29/21	7.26	16.9	294	210	0.15			1.13	RRU/JMB	
12/7/21	7.69	16.8	284	201	0.14			0.69	RRU/JMB	
12/13/21	7.40	16.6	236	164	0.13			2.32	RRU/JMB	
12/20/21	6.96	16.0	206	146	0.10			2.64	RRU/JMB	
12/27/21	6.98	17.2	186	132	0.09			1.50	RRU/JMB	
1/2/22	7.01	16.0	180	128	0.09			1.41	RRU/JMB	
Averages	7.21	17.4	328	233	0.16	82	11.4	0.93	RRU/JMB	9.1
Range	6.75 to 7.94	7.3C To 29.3	180 To 650	128 To 469	0.10 To 0.32	54 To 120	7.5 To 24	0.25 To 2.72	RRU/JMB	

# Cazadero Water Chemistry-2021

## Hotel Spring-Potential Corrosion Parameters

Instrument-Apera PC 60 (RRU) plus Brelje- Race Lab. & Far West Lab.

Date	pH	Cel- cius	Con- duct.	Total Diss. Solids	Salt or Na.	Total Alkal.	Calc	NTU	Data from	Lang Ind.
4/19/03									B&R/JMB	9.85
6/16/06	6.5		140	82	5.5	260	8.3		B&R/JMB	10.2
2/24/10	6.4		150	98		70	10		B&R/JMB	
6/6/17	6.5		140	82	5.5	260	8.3		B&R/JMB	10.2
4/3/19	6.5		140	62		52	10		B&R/JMB	
12/21/20	6.5		130	54		56			B&R/JMB	
1/8/21	6.93	14.1		130	0.09				RRU/JMB	
1/17/21	6.89	14.9	270	191	0.14				RRU/JMB	
1/25/21	7.03	10.1	122	87	0.16				RRU/JMB	
2/1/21	6.83	12.8	105	75	0.05				RRU/JMB	
2/9/21	6.91	13.2	108	77	0.05				RRU/JMB	
2/15/21	7.06	14.1	114	82	0.06				RRU/JMB	
2/22/21	7.16	14.1	114	81	0.06				RRU/JMB	
3/1/21	6.86	12.1	116	83	0.06				RRU/JMB	
3/8/21	6.93	11.6	117	84	0.06			.95	RRU/JMB	
3/15/21	7.18	10.4	119	86	0.06			3.86	RRU/JMB	
3/22/21	7.30	13.5	105	75	0.05			1.40	RRU/JMB	
3/29/21	7.05	11.7	110	78	0.06			1.41	RRU/JMB	
4/6/21	7.06	11.2	123	87	0.06			1.29	RRU/JMB	
4/12/21	7.08	15.9	118	84	0.06			0.69	RRU/JMB	
4/20/21	7.11	15.6	125	89	0.06			0.96	RRU/JMB	
4/26/21	7.20	13.0	125	89	0.06			0.35	RRU/JMB	
5/3/21	6.95	19.4	131	93	0.06			0.66	RRU/JMB	
5/10/21	6.91	21.9	132	94	0.07			0.71	RRU/JMB	
5/17/21	7.05	19.4	130	92	0.07			0.97	RRU/JMB	
5/24/21	6.90	17.5	130	92	0.07			2.51	RRU/JMB	
5/31/21	6.91	19.4	321	94	0.07			0.73	RRU/JMB	
6/7/21	6.86	20.0	132	94	0.07			0.58	RRU/JMB	
6/14/21	6.98	17.7	132	93	0.07			0.85	RRU/JMB	
6/21/21	6.84	16.0	134	96	0.07			0.96	RRU/JMB	
6/29/21	7.14	18.7	115	84	0.06				RRU/JMB	

Hotel Spring continued										
7/5/21	7.14	17.7	140	100	0.06			2.04	RRU/JMB	
7/12/21	7.13	15.9	138	98	0.07			1.29	RRU/JMB	
7/20/21	7.09	17.1	147	104	0.07			0.92	RRU/JMB	
7/26/21	7.08	16.2	138	98	0.07			1.30	RRU/JMB	
8/2/21	7.20	17.1	132	94	0.06			0.71	RRU/JMB	
8/9/21	7.16	15.1	135	96	0.07			0.77	RRU/JMB	
8/16/21	7.03	17.6	154	109	0.08			0.69	RRU/JMB	
8/23/21	7.26	15.9	144	102	0.07			0.38	RRU/JMB	
8/30/21	7.25	14.3	138	98	0.07			0.76	RRU/JMB	
9/6/21	7.20	16.7	137	98	0.07			0.50	RRU/JMB	
9/13/21	7.15	19.9	139	99	0.07			0.66	RRU/JMB	
9/20/21	7.12	19.6	137	98	0.07			0.67	RRU/JMB	
9/27/21	7.34	15.2	132	94	0.07			0.55	RRU/JMB	
10/4/21	7.21	19.2	144	102	0.07			1.14	RRU/JMB	
10/11/21	7.72	13.9	135	97	0.07			0.55	RRU/JMB	
10/18/21	7.40	13.1	130	92	0.06			0.64	RRU/JMB	
10/25/21	7.25	14.7	97	69	0.05			0.92	RRU/JMB	
11/2/21	7.30	15.2	116	83	0.06			1.30	RRU/JMB	
11/8/21	7.28	14.4	118	84	0.06			0.57	RRU/JMB	
11/15/21	7.27	14.7	116	83	0.06			0.63	RRU/JMB	
11/22/21	7.33	12.8	121	86	0.06			0.58	RRU/JMB	
11/29/21	7.45	13.3	126	89	0.06			1.29	RRU/JMB	
12/7/21	7.42	15.8	129	92	0.06			1.02	RRU/JMB	
12/13/21	7.48	14.0	129	84	0.10			0.92	RRU/JMB	
12/20/21	7.40	13.4	102	72	0.05			0.33	RRR/JMB	
12/27/21	7.43	12.8	102	72	0.05			0.97	RRR/JMB	
1/2/22	7.53	11.5	111	79	0.05			0.83	RRR/JMB	
Average										
Average	7.34	15.6	155	96	0.07	140	9.2	1.11	RRU/JMB	10.1
Range										
Range	6.83 To 7.72	10.1 To 21.9	105 To 270	54 To 191	0.05 To 0.14	52 To 260		0.33 To 3.86	RRU/JMB	

# Cazadero Water Chemistry-2021

## Hotel Tank Outlet-Potential Corrosion Parameters

Instrument-Apera PC 60 (RRU) plus Brelje- Race Lab. & Far West Lab.

Date	pH	Cel- cius	Con- duct.	Total Diss. Solids	Salt or Na.	Total Alkal.	Cal- cium	NTU	Data from	Lan g Ind.
5/18/11			140	86		60			B&R/JMB	
7/27/11	6.6	16.7	160	100		70			B&R/JMB	
2/21/18	6.9	12.3	160	70		70			B&R/JMB	
2/1/21	6.96	12.3	115	82	0.06				RRU/JMB	
2/9/21	7.33	12.5	121	87	.06				RRU/JMB	
2/15/21	7.20	14.5	120	85	.06				RRU/JMB	
2/22/21	7.42	14.5	121	86	.06				RRU/JMB	
3/8/21	7.22	10.9	187	133	.09			0.78	RRU/JMB	
3/15/21	7.38	9.8	155	111	.08			0.89	RRU/JMB	
3/22/21	7.36	14.8	168	114	.08			0.89	RRU/JMB	
3/29/21	7.27	11.9	123	88	.06			1.03	RRU/JMB	
4/6/21	7.28	11.2	125	90	.06			0.53	RRU/JMB	
4/12/21	7.33	15.9	138	98	.07			0.31	RRU/JMB	
4/20/21	7.30	16.4	167	118	0.08			0.51	RRU/JMB	
4/26/21	7.52	13.2	173	123	0.09			0.63	RRU/JMB	
5/3/21	7.30	17.3	195	139	0.10			0.62	RRU/JMB	
5/10/21	7.09	22.6	220	120	0.11			0.93	RRU/JMB	
5/17/21	7.30	17.2	217	154	0.11			0.52	RRU/JMB	
5/24/21	7.27	17.0	222	159	0.11			0.96	RRU/JMB	
5/31/21	7.22	19.5	226	162	0.11			0.81	RRU/JMB	
6/7/21	7.25	21.1	220	157	0.11			0.92	RRU/JMB	
6/14/21	7.23	18.5	331	235	0.16			0.98	RRU/JMB	
6/21/21	7.23	15.7	247	176	0.12			0.89	RRU/JMB	
6/29/21	7.50	19.1	248	176	0.12			0.83	RRU/JMB	
7/5/21	7.52	17.7	258	184	0.13			0.85	RRU/JMB	
7/12/21	7.50	15.3	241	172	0.12			0.80	RRU/JMB	
7/20/21	7.48	18.5	459	326	0.23			0.70	RRU/JMB	
7/26/21	7.57	17.3	283	202	0.17			0.67	RRU/JMB	
8/2/21	7.59	18.3	289	207	0.14			0.82	RRU/JMB	
8/9/21	7.57	16.6	288	205	0.14			0.41	RRU/JMB /JMB	



Hotel Tank Outlet continued										
8/16/21	7.56	17.9	261	185	0.13			0.79	RRU/JMB	
8/23/21	7.74	17.3	296	211	0.15			0.72	RRU/JMB	
8/30/21	7.79	15.5	312	223	0.15			0.57	RRU/JMB	
9/6/21	7.71	18.1	309	220	0.15			1.18	RRU/JMB	
9/13/21	7.71	19.7	312	223	0.15			1.39	RRU/JMB	
9/20/21	7.77	21.3	321	228	0.16			2.17	RRU/JMB	
9/27/21	7.86	16.4	332	236	0.17			0.67	RRU/JMB	
10/4/21	7.86	19.8	314	226	0.16			1.75	RRU/JMB	
10/11/21	7.88	14.9	321	231	0.16			0.96	RRU/JMB	
10/25/21	7.06	15.8	176	125	0.09			1.32	RRU/JMB	
11/2/21	7.55	15.3	137	98	0.07			2.14	RRU/JMB	
11/8/21	7.48	15.0	128	91	0.06			0.56	RRU/JMB	
11/15/21	7.56	15.0	126	90	0.06			0.68	RRU/JMB	
11/22/21	7.73	12.5	125	89	0.06			0.51	RRU/JMB	
11/29/21	7.72	13.4	160	113	0.08			0.72	RRR/JMB	
12/7/21	7.68	17.5	311	221	0.16			0.57	RRR/JMB	
12/13/21	7.52	14.5	130	93	0.06			0.89	RRR/JMB	
12/20/21	7.67	13.4	106	79	0.06			0.57	RRR/JMB	
12/27/21	7.70	12.8	112	80	0.05			0.49	RRR/JMB	
1/2/22	7.78	11.0	116	82	0.06			0.49	RRR/JMB	
RRU/JMB Average	7.48	16.5	214	152	0.11	67		0.77	RRU/JMB	
Range	7.09 To 7.88	9.8 To 22.6	115 To 459	80 To 326	0.06 To 0.23	60 To 70		0.31 To 2.17	RRU/JMB	Not Avail -able

# Cazadero Water Chemistry-2021

## Hotel Vertical-Potential Corrosion Parameters

Instrument-Apera PC 60 (RRU) plus Brelje- Race Lab. & Far West Lab.

Date	pH	Cel- cius	Con- duct.	Total Diss. Solids	Salt or Na.	Total Alkal.	Calc	NTU	Data from	lang Ind.
9/12/09	6.6		120	70	5.3	48			B&R/JMB	
3/16/10	6.4		150	98	7.1	70			B&R/JMB	
1/8/21	7.05	12.0	259	185	0.13				RRU/JMB	
1/17/21	7.15	15.4	281	200	0.14				RRU/JMB	
1/25/21	7.07	10.2	262	187	0.13				RRU/JMB	
2/1/21	7.20	9.3	265	189	0.13				RRU/JMB	
2/9/21	6.79	12.2	242	173	0.12				RRU/JMB	
2/22/21	6.91	12.0	247	175	0.12				RRU/JMB	
3/1/21	7.08	7.4	235	168	0.12				RRU/JMB	
3/8/21	7.04	9.1	253	178	0.13				RRU/JMB	
3/15/21	7.04	11.1	236	168	0.12			0.43	RRU/JMB	
3/22/21	6.96	11.2	235	168	0.12			1.52	RRU/JMB	
3/29/21	6.96	20.0	239	175	0.12			1.65	RRU/JMB	
4/6/21	7.13	16.0	259	186	0.13			1.32	RRU/JMB	
4/12/21	7.16	14.3	577	406	0.30			2.83	RRU/JMB	
4/20/21	6.89	16.7	237	168	0.12			1.42	RRU/JMB	
4/26/21	7.25	13.2	254	179	0.13			0.78	RRU/JMB	
5/3/21	7.12	17.2	296	212	0.15			2.20	RRU/JMB	
5/10/21	7.03	16.9	304	215	0.15			0.55	RRU/JMB	
5/18/21	7.20	15.2	259	185	0.13			2.63	RRU/JMB	
5/24/21	7.23	14.5	276	195	0.14			2.35	RRU/JMB	
5/31/21	7.30	18.4	274	196	0.14			0.89	RRU/JMB	
6/7/21	7.25	19.9	287	204	0.14			2.22	RRU/JMB	
6/14/21	7.34	18.5	295	207	0.15			2.44	RRU/JMB	
6/21/21	7.25	19.9	287	204	0.14			2.32	RRU/JMB	
6/29/21	7.42	18.5	394	286	0.20			1.04	RRU/JMB	
7/5/21	7.27	18.0	274	194	0.14			0.56	RRU/JMB	
7/12/21	7.44	25.2	324	231	0.16			1.98	RRU/JMB	
7/20/21	7.58	21.9	335	238	0.17			2.08	RRU/JMB	
7/26/21	7.49	19.1	328	233	0.16			1.59	RRU/JMB	
8/2/21	7.50	20.7	345	245	0.17			1.73	RRU/JMB	

Hotel Vertical continued										
8/9/21	7.54	17.6	340	241	0.17			1.07	RRU/JMB	
8/16/21	7.75	18.5	353	222	0.18			0.88	RRU/JMB	
8/23/21	7.54	18.5	353	250	0.18			0.63	RRU/JMB	
8/30/21	7.83	17.5	355	253	0.18			0.90	RRU/JMB	
9/6/21	7.40	18.1	329	334	0.16			0.60	RRU/JMB	
9/13/21	7.35	21.9	333	236	0.17			0.61	RRU/JMB	
9/20/21	7.45	23.9	344	245	0.17			0.77	RRU/JMB	
9/27/21	7.62	17.2	365	260	0.18			0.71	RRU/JMB	
10/4/21	7.58	18.0	339	241	0.17			2.12	RRU/JMB	
10/11/21	7.85	16.1	387	275	0.19			1.74	RRU/JMB	
10/18/21	7.69	16.0	375	266	0.19			1.96	RRU/JMB	
10/25/21	7.18	15.7	282	203	0.14			6.16	RRU/JMB	
11/2/21	7.40	17.2	286	203	0.14			2.97	RRU/JMB	
11/8/21	7.33	15.5	289	206	0.15			6.86	RRU/JMB	
11/15/21	7.08	18.2	248	176	0.12			1.46	RRU/JMB	
11/22/21	7.23	19.8	255	182	0.13			1.59	RRU/JMB	
11/29/21	7.23	17.0	291	205	0.15			1.65	RRU/JMB	
12/7/21	7.49	16.9	286	203	0.14			1.16	RRR/JMB	
12/13/21	7.33	17.3	293	209	0.15			2.33	RRR/JMB	
12/20/21	7.15	14.8	207	146	0.10			1.50	RRR/JMB	
12/27/21	7.15	15.9	179	127	0.09			1.67	RRR/JMB	
1/2/22	7.06	15.5	175	125	0.09			1.65	RRR/JMB	
Average	7.28	17.6	294	210	0.15	59	0	1.73	RRR/JMB	
RRU/JMB Range	6.79 To 7.85	7.4 To 25.2	175 To 394	127 To 406	0.09 To 0.20					

# Cazadero Water Chemistry-2021

## Luther Tank Outlet-Potential Corrosion Parameters

Instrument-Apera PC 60 (RRU) plus Brelje- Race Lab. & Far West Lab.

Date	pH	Cel- cius	Con- duct.	Total Diss. Solids	Salt or Na.	Total Alkal.	Calc	NTU	Data from	lang Ind.
1/9/21	7.57	12.4	243	342	.17				RRU/JMB	
1/17/21	7.90	10.1	430	295	.19				RRU/JMB	
1/25/21	7.73	9.6	332	236	.16				RRU/JMB	
2/1/21	7.41	9.4	319	228	.16				RRU/JMB	
2/9/21	7.23	14.7	292	207	.14				RRU/JMB	
2/15/21	8.14	12.7	398	282	.20				RRU/JMB	
2/22/21	7.15	13.9	250	179	.14				RRU/JMB	
3/1/21	7.51	8.6	273	193	.14				RRU/JMB	
3/8/21	7.31	10.2	241	172	.12			.46	RRU/JMB	
3/15/21	7.11	9.4	235	168	.12			.39	RRU/JMB	
3/22/21	7.38	10.5	293	196	.14			.46	RRU/JMB	
3/29/21	7.23	14.2	253	180	.13			.65	RRU/JMB	
4/6/21	7.43	9.5	267	191	.13			.63	RRU/JMB	
4/12/21	7.25	19.4	242	172	.13			.34	RRU/JMB	
4/20/21	7.21	16.9	234	168	.12			.58	RRU/JMB	
4/26/21	7.30	13.0	242	172	.12			.39	RRU/JMB	
5/3/21	7.29	22.9	242	177	.12			.60	RRU/JMB	
5/10/21	7.27	24.5	245	176	.12			.65	RRU/JMB	
5/17/21	7.20	25.1	251	180	.12			.46	RRU/JMB	
5/24/21	7.29	12.7	259	185	.13			.91	RRU/JMB	
5/31/21	7.61	20.4	269	141	.13			1.05	RRU/JMB	
6/7/21	7.73	21.0	317	225	0.16			0.99	RRU/JMB	
6/14/21	7.42	22.2	295	210	0.15			2.11	RRU/JMB	
6/21/21	7.44	20.2	276	196	0.13			1.52	RRU/JMB	
6/29/21	7.69	20.6	299	213	0.15			0.45	RRU/JMB	
7/5/21	7.26	23.7	284	204	0.14			0.82	RRU/JMB	
7/12/21	7.84	25.3	335	237	0.17			0.67	RRU/JMB	
7/20/21	7.92	22.4	305	221	0.15			0.60	RRU/JMB	
7/26/21	7.92	20.5	304	216	0.15			0.69	RRU/JMB	
8/2/21	8.04	21.3	307	218	0.15			0.53	RRU/JMB	
8/9/21	7.78	21.9	291	209	0.14			0.69	RRU/JMB	

Luther Tank Outlet continued										
8/16/21	8.14	25.8	258	219	0.15			0.43	RRU/JMB	
8/23/21	7.75	19.7	351	250	0.18			0.36	RRU/JMB	
8/30/21	8.07	19.9	339	242	0.17			1.15	RRU/JMB	
9/6/21	8.15	22.3	333	238	0.16			0.51	RRU/JMB	
9/13/21	8.24	25.0	342	243	0.17			0.35	RRU/JMB	
9/20/21	8.27	22.9	338	241	0.17			0.61	RRU/JMB	
9/27/21	8.62	21.4	337	239	0.17			0.66	RRU/JMB	
10/4/21	8.46	18.5	357	254	0.17			0.28	RRU/JMB	
10/11/21	8.21	15.1	387	277	0.19			2.54	RRU/JMB	
10/18/21	8.16	14.4	376	262	0.18			0.41	RRU/JMB	
10/25/21	8.16	14.6	376	267	0.18			0.83	RRU/JMB	
11/2/21	7.56	17.5	306	218	0.15			0.80	RRU/JMB	
11/8/21	7.52	14.2	259	185	0.13			0.71	RRU/JMB	
11/15/21	7.45	17.3	206	147	0.10			0.82	RRU/JMB	
11/22/21	7.76	15.9	263	187	0.13			0.66	RRU/JMB	
11/29/21	7.62	13.9	242	171	0.12			0.87	RRU/JMB	
12/7/21	7.83	16.9	285	203	0.14			1.02	RRU/JMB	
12/13/21	7.86	16.2	259	185	0.13			0.81	RRU/JMB	
12/20/21	7.65	12.7	216	156	0.11			1.33	RRU/JMB	
12/27/21	7.85	11.0	247	175	0.12			0.76	RRU/JMB	
1/2/22	7.71	10.2	196	140	0.10			0.40	RRU/JMB	
53 data samples & 45 NTU										
Average	7.40	16.7	284	248	0.14			0.73		
Data Range	7.20 To 8.62	8.6 To 25.8	196 To 430	141 To 342	0.10 To 0.20			0.34 To 2.54	RRU/JMB	none

# Cazadero Water Chemistry Summary

## Potential Corrosion Parameters

Averages from 8 source data collected in 2021

Source	pH	Temp. Celcius	Con duct.	Total Dissolved Solids	Salt	Total Alkal.	Cal-cium	NTU	Data from	Lang. Index
Buckeye Horiz.	7.01	16.2	297	214	0.17	121	33	0.61	RRU/JMB	10.5
Buckeye Tank	7.40	14.2	293	214	0.15			0.81	RRU/JMB	
Buckeye Vert.	7.21	17.4	328	233	0.16	82	114	0.93	RRU/JMB	9.1
Hotel Spring	7.34	15.6	155	96	0.07	140	9.2	1.11	RRU/JMB	10.1
Hotel Tank	7.48	16.5	214	152	0.11	67		0.77	RRU/JMB	
Hotel Vert.	7.28	17.6	294	210	0.15	59		1.73	RRU/JMB	
Luther Tank	7.40	16.7	284	248	0.14			0.73	RRR/JMB	
Bei Horizontal	6.89	18.3	178	126	0.09			1.53	RRU/JMB	