

HUMBOLDT BAY MUNICIPAL WATER DISTRICT

Board of Directors Meeting

April 2018





HUMBOLDT BAY MUNICIPAL WATER DISTRICT
828 7th Street, Eureka



Agenda for Meeting of Board of Directors

April 12, 2018

Time Set Items: 10:00 am New Business -Item I1
 11:00 am Engineering– Item J1
 1:45 pm New Business -Item I5

A. ROLL CALL

B. FLAG SALUTE

C. ACCEPT AGENDA

D. MINUTES

Minutes of March 8, 2018 Regular Board Meeting - approve*

E. PUBLIC COMMENT

Members of the public are invited to address the Board on items *not* listed on the agenda that are within the scope and jurisdiction of the District. At the discretion of the President, comments may be limited to three minutes per person. The public will be given the opportunity to address items that are on the agenda at the time the Board takes up that item.

F. CONSENT AGENDA

1. Letter from District to Mad River Alliance re: support for Rose Foundation Grant Application*
2. CalPERS-A Solid Foundation for the Future*
3. Newspaper articles of local/water interest*

G. CORRESPONDENCE

1. Letter from District re: WCB Grant*-discuss
2. Letter from District to Humboldt County OES re: participation in Local Hazard Mitigation Plan*

H. CONTINUING BUSINESS

1. Water Resource Planning - status report and discussion re: water-use options under consideration (local sales, transport, and in-stream flow dedication)*
 - a) Resolution 2018-03 Approving the Application for Grant Funds from the Wildlife Conservation Board for the Mad River Stream Flow Enhancement Project- possible approval
 - b) News articles re: grant from WCB-discuss
2. Cannabis Grows-status update
3. Planning Commission Appeal*
 - a) status report and discussion
 - b) CLOSED SESSION- to discuss potential litigation-pursuant to Section 54956.9 (c) of the Brown Act
4. TRF Tour- discuss
5. Lazzar Subdivision-discuss and possible approval of response*

I. NEW BUSINESS

1. Request from Mad River Alliance for financial support -possible approval*(10:00 am)
2. RCEA Public Agency Solar Program- discuss and possible approval to proceed*
3. District Facebook- discuss maintenance and whether to keep account open
4. Joint Board Meeting with Ruth Lake CSD-discuss

* Supporting material included in Director books



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5. Resolution 2018-04 Recognizing and Honoring the Outstanding Service of Carol McKibben-possible approval* (Time Set 1:45 pm)

J. **REPORTS (from Staff)**

1. **Engineering (11:00 a.m.)**

- a) Blue Lake-FG CSD Water Line Replacement over Mad River (funded by Prop 84 NCIRWMP grant and FEMA Hazard Mitigation Grant) – Status Report*
- b) Surge Tower Replacement/12kV Replacement – status report
- c) Collector Mainline Redundancy Hazard Mitigation Grants – status report
- d) Reservoir Structural Retrofit Hazard Mitigation Grant Application - status reports
- e) Single Line Industrial Slough Crossing Hazard Mitigation Grant Notice of Interest – status report
- f) Dam Spillway Analysis – status report *
- g) Status report re: other engineering work in progress

2. **Financial**

- a) Financial Report – approve March 2018 financial statement & vendor detail report*
- b) Project Budget 2018/19
 1. Receive Board input
 2. Meeting scheduled for May 30th at 9 am.

3. **Operations**

- a) Monthly report on projects and operations - discuss*
- b) PG& E -discuss*
- c) Ruth Bunkhouse Remodel, Release Project for Bid – possible approval of bid documents*

K. **MANAGEMENT**

1. CSDA*
 - a) status update
 - b) Letter of Support for SB929 requiring all Special Districts have website- possible approval
2. CUEMA Seminar- report out*
3. Form 700- status update

L. **DIRECTOR REPORTS & DISCUSSION**

1. **General**

- a) General comments or reports from Directors

2. **ACWA – JPIA**

3. **ACWA***

- a) Advisory and updates-discuss

4. **Organizations on which HBMWD Serves: RCEA, RREDC ***

- a) Status reports*

ADJOURNMENT

ADA compliance statement: In compliance with the Americans with Disability Act, if you need special assistance to participate in this meeting, please contact the District office at (707) 443-5018. Notification 48 hours prior to the meeting will enable the District to make reasonable arrangements to ensure accessibility to this meeting. (Posted and mailed April 6, 2018)

MINUTES



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A. **ROLL CALL**

President Woo called the meeting to order at 9:00 am. Director Rupp conducted the roll call. Directors Fuller, Hecathorn, Latt, Rupp, and Woo were present. General Manager John Friedenbach, Superintendent Dale Davidsen, Business Manager Chris Harris and Acting Board Secretary Dee Dee Simpson-Glenn were also present. John Winzler and Pat Kaspari were present for a portion of the meeting.

B. **FLAG SALUTE**

President Woo led the flag salute.

C. **ACCEPT AGENDA**

On motion by Director Hecathorn, seconded by Director Rupp, the Board voted 5-0 to accept the agenda.

D. **MINUTES**

President Woo requested some minor changes to correct the minutes. On motion by Director Rupp, seconded by Director Hecathorn, the Board voted 5-0 to approve the Minutes of the February 8, 2018 Regular Board Meeting as amended.

E. **PUBLIC COMMENT**

Members of the public are invited to address the Board on items not listed on the agenda that are within the scope and jurisdiction of the District. No public comment was received.

F. **CONSENT AGENDA**

On motion by Director Fuller, seconded by Director Latt, the Board voted 5-0 to approve the Consent Agenda.

G. **CORRESPONDENCE**

Letters from District opposing Proposed Drinking Water Tax: Budget Trailer Bill and SB 623-
Mr. Friedenbach stated that SB623, the proposed drinking water tax, has been added as a budget trailer bill. He shared the opposition letters sent to the budget and finance committee opposing this unless amended. Director Rupp stated ACWA is proposing an alternative funding package and not just opposing the tax.

Call for Nominations: Special District Appointment to Countywide Redevelopment Agency (RDA) Oversight Board

Director Rupp currently serves on the Eureka RDA Oversight Board and stated he would like the opportunity to continue with the Countywide RDA Oversight Board if elected. On motion by Director Latt, seconded by Director Hecathorn, the Board voted 5-0 to submit the nomination of Director Rupp to the Countywide RDA Oversight Board.

Letter from District supporting Fieldbrook Glendale CSD Annexation

Mr. Friedenbach stated the District is supportive of the annexation of the Sundberg property to the Fieldbrook Glendale CSD. He shared the letter sent to LAFCo expressing this support.

Letter from Division of Boating and Waterways Notice of Executed Agreement for 2017/18 grant

Mr. Friedenbach shared the letter from the Division of Boating and Waterways providing an executed agreement for the 2017/18 Quagga and Zebra Mussel Infestation Prevention Grant. This is the third successful grant received from the Division of Boating and Waterways. Director Rupp inquired if the



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District or Ruth Lake CSD was managing the grant funding. Mr. Friedenbach stated the District is and he explained the process. The District applied for the grant and manages the grant. Ruth Lake CSD is responsible for getting the work done and providing the bills to us after they have paid them. The District then submits the claims and when the funding is received, reimburses Ruth Lake CSD for those authorized expenses. Director Rupp thanked him for the information.

Letters from District to Ruth Lake CSD

Mr. Friedenbach discussed the letters to Ruth Lake CSD. In a January 5, 2018 letter to the Ruth Lake CSD board president, Mr. Friedenbach noted that \$16,980 in operating costs are being reimbursed through the Quagga and Zebra Mussel Infestation Prevention Grant Program. He suggested that given the savings, the Ruth Lake CSD board may want to consider sending their general manager and board secretary to training offered through the CSDA since these Ruth Lake CSD employees are both fairly new and these trainings are very informative. When reading the minutes from the Ruth Lake CSD January board meeting Item 10 New Matters for Board Consideration, Mr. Friedenbach noted the minutes stated “A letter from John Friedenbach requested Mike Francesconi attend a Service District Conference, paid with grant funds from the Humboldt Bay Water District.” As this was not the case and grant funds cannot be spent on this, another letter was sent to Ruth Lake CSD on March 1, 2018 clarifying this. This letter also addressed another issue-the lack of Lease Lot requests for improvements forwarded to our office in the past several months. Mr. Friedenbach stated he has not yet received any response to the letter. The Board discussed the possibility of having more than one joint board meeting with Ruth Lake CSD if this would be helpful during the transition with the new staff.

H. CONTINUING BUSINESS

Water Resource Planning

Local Sales

Mr. Friedenbach stated there has been no significant activity. The office periodically receives requests for “Will Serve” letters for new cannabis enterprises.

Transport

Again, there is no significant activity in the past month. He discussed the article regarding the funding and building of Sites Reservoir. If the Sites Reservoir comes to fruition, this could be a viable location for the District’s Transport Option. Mr. Friedenbach stated he received an additional inquiry from Mr. Tavares regarding ocean transport. Mr. Friedenbach then met with Mr. Oetker, Executive Director of the Humboldt Bay Harbor Commission to discuss the condition of the existing water delivery infrastructure at the former LP Pulp Mill site. The Board stated they would like to hear Mr. Tavares proposal via phone, if the project progresses.

Instream Flow

The District is still waiting to hear back from the Wildlife Conservation Board (WCB) regarding the Instream Flow grant application. The WCB will hold a special meeting on March 22 to consider the proposals and an agenda will be available March 9, 2018.

Cannabis Grows

Mr. Friedenbach reported that he met with Sheriff Honsal to discuss the parameters and possibility of funding a deputy position for the Mad River watershed. The cost, including deputy and vehicle would be \$162,000 per year. This could happen next year if the District is willing to fund it. Mr. Friedenbach also had the conversation with Scott Bauer of DFW. Mr. Bauer is also a supervisor of the



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joint Wildlife Enforcement Team. Mr. Bauer suggested funding overtime rather than a new position. Ms. Harris asked the Board from a budgeting perspective, does the Board want to include this as a line item. The Board stated yes, but not before asking several questions, including if Mr. Friedenbach discussed the topic of financial support for law enforcement with the Municipal Customers. Mr. Friedenbach stated he did discuss this with the Municipal Customers and they were onboard.

Planning Commission Appeal

Mr. Friedenbach provided a staff report prior to public comment. He outlined letters from various agencies, My Word, letters to the editor, etc., all supportive of the District position. He inquired how the District could encourage the Board of Supervisors to hear the appeal sooner rather than later. Director Latt recused himself, removed his District jacket and addressed the Board as a member of the public. He is opposed to the zoning change and has concerns for the water quality should the zoning change go through. He then left the room and returned after the consideration of this item by the Board had concluded. Other speakers in support of the District’s position were Larry Glass of North Coast Environmental Center, John Winzler who stated he read the entire Mercer Fraser operations plan and hopes this Board takes aggressive action, and Justin Ly of NOAA Fisheries who stated the Board has the full support of NOAA and they will be sending a letter of support. Joyce King from McKinleyville spoke and stated she attended the McKinleyville CSD meeting and expressed disappointment in the weak letter of support from them. She would like to see all the letters, emails, etc. posted on our website. Ms. Elaine Weinreb asked about rumors that were circulating on why we haven’t gotten a decision on our appeal yet and another speaker also echoed her disappointment on the McKinleyville CSD letter. Since there were no additional comments, President Woo closed the Public Comment at 9:40 am. Director Rupp asked what happens next if Mercer Fraser withdraws their request or agrees to the AE zoning. Mr. Friedenbach replied the District will still need to deal with the Board of Supervisors regarding the zoning change. President Woo stated she’s been told the General Plan Update is a “living document” and now the County is now saying it can’t be changed and they are required to change the zoning. She stated she does not believe this and based on legal advice, this is not true. From the beginning, the issue is about the rezoning, not cannabis.

CLOSED SESSION- to discuss potential litigation-pursuant to Section 54956.9 (c) of the Brown Act)

The Board entered into Closed session at 10:00 am.

The Board returned to Open Session at 10:51 am. There was no reportable action.

Unfunded Pension Liability-Agreement for Administrative Services

Last month, Ms. Harris shared the draft agreement for the Board’s review and they requested the agreement come back this month after they had the opportunity to discuss options with an investment advisor. On a motion by Director Rupp, seconded by Director Latt, the Board voted 5-0 to approve the PARS Agreement for Administrative Services and the Adoption Agreement for Post-Employment IRS Section 115 Trust.

I. NEW BUSINESS

Request from Mad River Alliance for grant support letter to Rose Foundation

Mr. Friedenbach shared the request from Mad River Alliance (MRA) for a grant support letter to the Rose Foundation. The MRA is requesting grant funding to help support their Water Quality Monitoring Project on the Mad River. Mr. Friedenbach shared a section from their grant application that states “water quality monitoring is critical for assessing watershed health and detecting ecological



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changes, presence of contaminants, etc. Water quality data can give insight to current and future land uses, vegetation regime changes, climate-change, and overall health and function of the mad River watershed, and whether or not that health and function is changing over time.” This statement directly correlates to the component of our District’s Mission Statement which is: “...protect the environment of the Mad River watershed to preserve water rights, water supply and water quality interests of the District.” Their grant application further states: “Within the lower 14 miles of the Mad River Watershed there are over 50 businesses discharging surface storm water into the Mad River. All these businesses are required to have a storm water discharge plan filed with the North Coast Regional Water Quality Control Board (NCRWQCB). However, NCRWQCB does not have funding or the staff to physically monitor these discharges. Given this, businesses are largely self-regulated; therefore, it is critical to have a third party to perform objective water quality analysis on a quarterly basis. Regular monitoring will help to ensure the health and quality of the source of drinking water of two-thirds of Humboldt County Residents.” Mr. Friedenbach stated that monitoring the impact of these businesses on our source drinking water is a primary concern for our District. Staff recommends the Board authorize staff to prepare a letter of support for the MRA’s grant application. Director Fuller noted the MRA does have a water quality plan and suggested staff ask Mr. Feral for additional or specific monitoring. Director Hecathorn stated she would be interested in the MRA’s financials as well. On motion by Director Rupp, seconded by Director Fuller, the Board voted 5-0 to authorize staff to prepare a letter of support for the MRA’s grant application to the Rose Foundation.

J. **REPORTS (from Staff)**

1. **Engineering:**

Blue Lake -FGCSD Water Line Replacement over Mad River (funded by Prop 84 NCIRWMP grant and FEMA Hazard Mitigation Grant)

Director Latt recused himself. Mr. Kaspari stated the bids for the project were due at 3 pm yesterday. There were three bidders and he handed out the bid tabulations. Mercer Fraser had the lowest bid at \$1,045,400. GR Sundberg’s bid was \$1,109,000 and Wahlund Construction’s bid was \$1,684,000. The bulk of the work will be done by a drilling sub-contractor, J-C General Engineering, Inc. Mr. Kaspari called the listed references for the driller and all had glowing recommendations. He also reviewed the responsiveness of Mercer Fraser’s bid and it appears complete.

On motion by Director Rupp, seconded by Director Hecathorn, the Board voted 4-0 to award the bid to Mercer Fraser.

Surge Tower Replacement/12kV Replacement

Mr. Kaspari reported out on the CalOES site visit on March 7th. He stated he met with staff and they left with a positive impression.

Collector Mainline Redundancy Hazard Mitigation Grant

Nothing to report. Mr. Kaspari hopes to have information for the next meeting.

Reservoir Structural Retrofit Hazard Mitigation Grant Application

As previously noted, the District was invited to submit the full application for the Reservoir Structural Retrofit. The application is due by July 1st and he doesn’t anticipate any problems. He did have an opportunity discuss the project with CalOES staff who indicated it is a great project since it fits the grant parameters.



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Single Line Industrial Slough Crossing Hazard Mitigation Grant Notice of Intent

Mr. Kaspari stated this year's NOI is new submittal process and the District is planning on submitting the single line industrial slough crossing. Director Latt inquired if there was another project that might be a better candidate. Mr. Kaspari stated that staff has reviewed various potential HMG eligible projects for the District and this is the one staff recommends.

Status report re: other engineering work in progress

Mr. Kaspari stated there is nothing to report. Mr. Friedenbach informed the Board that GHD is supporting the District on the Mercer Fraser issue from the standpoint of potential hydrological impacts.

2. Financial

Financial Report

Ms. Harris provided the February 2018 financial statement & vendor detail report. President Woo reviewed the bills and all was in order. On motion by Director Rupp, seconded by Director Hecathorn, the Board voted 5-0 to approve the financial statement and vendor detail report in the amount of \$272,887.29.

ACWA/JPIA RSF Fund-Presentation of Refund

The District purchases insurance for Liability, Property and Workers' Compensation through the ACWA/JPIA. The JPIA is providing refunds from the Rate Stabilization Fund. These funds are returned to members when they exceed -50% of the current year's Liability Basic Premium. The JPIA's programs are pooled programs and any excess amounts are returned to members. This is different from an insurance broker who keeps any profit. Director Rupp was pleased to present the District with a refund check in the amount of \$45,846.

Audit Report

Audit Committee Report Out

The Audit Committee met and the District auditor Michael O'Connor participated via phone. The meeting went well and there were no issues of concern that arose. Director Rupp commended Mr. O'Connor for his level of work and staff for their responsiveness and high-quality work.

Audit Report

The District's auditor, Michael O'Connor of R.J. Ricciardi, Inc. participated in the meeting via phone. He provided the audited financial report for the year ending June 30, 2017. He stated everything is in compliance. The District's net position was \$23,056,105, an increase of \$2,506,424 compared to June 30, 2016. He also stated there were no internal control issues and there are no recommendations for improvement. On motion by Director Rup, seconded by Director Hecathorn, the Board voted 5- 0 to approve the audit.

HighMark Capital Management

Previously, the Board approved establishing an irrevocable trust fund administered by PARS for the purpose of restricting and dedicating District funds to pre-fund the CalPERS Unfunded Pension Liability. PARS manages the "trust" itself, HighMark Capital Management manages the trust fund portfolio and US Bank will hold the actual trust funds. The Board participated in a conference call with Mr. Drew Brown, CFA of HighMark Capital Management. He provided a brief overview of the company and what they do. He discussed investment strategy options and potential risk and gains of the five diversified portfolio plans: Conservative,



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Moderately Conservative, Moderate, Balance and Capital Appreciation. The Board asked several questions and thanked Mr. Brown for his time. Mr. Friedenbach encouraged the Board to take a long-term approach in investment. Ms. Harris added that the Board must make a decision they are comfortable with and stated the unfunded liability will never go away. After additional discussion, on motion by Director Rupp, seconded by Director Hecathorn, the Board voted 5-0 to direct HighMark to manage the District portfolio using the moderate investment risk option.

Initial funding of PARS Trust

Ms. Harris stated the diversified investment portfolio for the PARS CalPERS Unfunded Pension Liability Trust has been determined. The next step is to determine the amount of the initial contribution to fund the Trust, and any additional annual contributions to the Trust and potential distributions out of the Trust. She shared and explained a multitude of graphs and staff recommendations for the various scenarios. This was followed by a discussion on funding general reserves. At the end of the discussion, the Board made several decisions.

On motion by Director Rupp, seconded by Director Hecathorn, the Board voted 5-0 to authorize an initial investment in PARS in the amount of \$600,000 from General Reserves.

On motion by Director Hecathorn, seconded by Director Fuller, the Board voted 5-0 to use the Trust to fund the difference in required annual unfunded liability payments that exceed \$200,000, currently scheduled to begin in fiscal year 2021, with the assumption that Trust funds are available.

On motion by Director Latt, seconded by Director Hecathorn, the Board approved 5-0 to conduct an annual review of CalPERS Actuarial Valuation in conjunction with a review of the PARS Trust performance as a component of the District's annual budget process.

On motion by Director Hecathorn, seconded by Director Fuller, the Board voted 5-0 to approve funding additions to the General Reserves at \$300,000 for the four years following the initial contribution into the PARS Trust. This is the additions to reserves assumed in the Bartle Wells Financial Plan included in the CIP update.

Revised Budget Authorization for FERC required spillway engineering-

Last month the Board authorized a budget for the FERC required spillway engineering assessment. It is back as a revised budget needing authorization due to an error in the cost of one of the items. On motion by Director Hecathorn, seconded by Director Rupp, the Board voted 5-0 to revise the budget for the FERC required focused Spillway PFMA from \$7,000 to \$19,200.

3. Operations

Mr. Davidsen provided the February Operational report. He and the supervisors are working on the FY 18/19 project budget development. The final invoice for the SCADA upgrade project was received and he shared it with the Board. Several employees participated in various trainings including Rockwell training, and leadership training. Mr. Davidsen discussed the failure of the standby generator at the TRF and provided details on the extensive work required by staff to remedy the situation. Operations supervisors met with Peninsula School and Fieldbrook School officials to come up with a lead sampling plan per AB 746 requirements.



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Water Quality Monitoring Program

A Board member previously inquired about the District’s water sampling regiment. Mr. Friedenbach shared the memo from Mr. Palmero which detailed the District’s sampling regimen. The requirements are separated into two categories: permit sampling and constituent sampling. He reviewed the charts for constituent sampling and the 2018 constituent sampling by month. Mr. Friedenbach also shared the Consumer Confidence Report (CCR) for calendar year 2016. This is an annual report that summarizes the sampling results and is provided to the District’s retail customers and is posted on the District website. Ms. Ryan is currently working on the CCR for the 2017 year. The CCR must be distributed by July 1.

K. MANAGEMENT

1. CSDA Board of Directors Call for Nominations

Mr. Friedenbach shared the CSDA Board of Directors Call for Nomination for the 2019-2021 term. He noted the time commitment required and there was no interest.

2. ADA Notices

Mr. Friedenbach stated he has been receiving emails from Alan Moody concerning ADA issues. The Board discussed their support for ADA compliance.

Other Items

Staff was asked to follow up on the billing process used by GHD. Mr. Friedenbach clarified the billing process. Director Latt and President Woo stated they were good with it and appreciated him asking for preferred customer discount.

L. DIRECTOR REPORTS & DISCUSSION

1. General

Director Rupp reminded President Woo that they need to provide a copy of Mr. Friedenbach’s annual review to him. Director Rupp indicated he would write up the review if Ms. Woo provided the notes. Director Rupp also requested Mr. Friedenbach provide a list of goals for the next year.

2. ACWA – JPIA

Director Rupp reported out on the Strategic Planning meeting. Topics discussed included JPIA Core Values, program rate charges for coverage, and future services.

3. ACWA

Request for contribution to fund coalition against SB623 and the budget trailer bill related to a tax on drinking water discuss and possible approval

ACWA is urging member agencies to join ACWA’s coalition against SB 623- the Water Tax bill and the budget trailer bill related to a tax on drinking water. They are also launching a fund-raising effort to secure an outside public affairs firm to help develop a more strategic external affairs campaign and assist with the coalition building outside of the water industry. The goal is to secure enough funding to sustain a campaign through the summer. ACWA is requesting a \$5,000 contribution based on the size of our District. Director Hecathorn thought this was reasonable investment spent on the community and noted that if the bill were to pass, we would be spending time and money in collecting the water tax. Director Latt felt that ACWA has plenty of money and he appreciated the purpose of it but did not want to be using ratepayer dollars to support this. Additional discussion ensued and on motion by Director Rupp, seconded by Director



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Hecathorn, the Board voted 4-1 to approve a \$5,000 contribution to ACWA for the purpose of funding campaign against the proposed water tax. Director Latt voted no.

4. Organizations on which HBMWD Serves: RCEA, RREDC *

RCEA

President Woo reported out on the RCEA meeting. They approved the FY 15/16 Audit Report, adopted a resolution setting the CCA rates for 2018 which is 3% lower than PG&E and approved the establishment of the Pilot Public Agency Solar Program.

RREDC

Director Latt was not able to attend the meeting.

ADJOURNMENT

The meeting adjourned at 4:40 pm.

Attest:

Sheri Woo, President

J. Bruce Rupp, Secretary/Treasurer

CONSENT



SECTION F1 PAGE NO. 1
HUMBOLDT BAY MUNICIPAL WATER DISTRICT

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BOARD OF DIRECTORS

SHERI WOO, PRESIDENT

NEAL LATT, VICE-PRESIDENT

J. BRUCE RUPP, SECRETARY-TREASURER

BARBARA HECATHORN, DIRECTOR

MICHELLE FULLER, DIRECTOR

GENERAL MANAGER

JOHN FRIEDENBACH

March 9, 2018

Mr. Dave Feral
Executive Director
Mad River Alliance
PO Box 1252
Blue Lake, CA 95525

Re: Support for Rose Foundation Grant Application

Dear Dave,

I am writing on behalf of the Humboldt Bay Municipal Water District (HBMWD) to express our support for your Water Quality Monitoring Project grant application to the Rose Foundation. As you know our District is the primary water provider for the majority of residents of Humboldt County. Approximately 88,000 individuals or 2/3rds of the county's residents receive water from the municipalities we serve. The source of this water is the Mad River.

Our mission is:

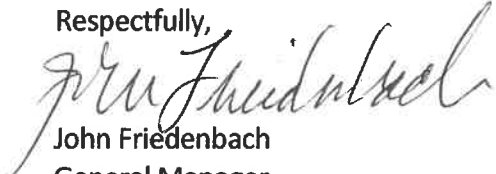
Reliably deliver high quality drinking water to the communities and customers we serve in the greater Humboldt Bay Area at a reasonable cost; reliably deliver untreated water to our wholesale industrial customer(s) at a reasonable cost; and protect the environment of the Mad River watershed to preserve water rights, water supply and water quality interests of the District.

HBMWD has worked successfully with the Mad River Alliance in the past to develop and conduct several Best Management Practices (BMP) workshops to encourage Mad River watershed landowners to implement BMP's proven to reduce cumulative negative impacts on water quality. These workshops were well received, attended and used as a model for similar workshops across the state.

We support the continued efforts of the Mad River Alliance to further its stream monitoring efforts along the Mad River and in particular in the upstream vicinity of our intake structures at the Essex area. Maintaining the clean water and environmental integrity of the entire Mad River watershed is primary to our District's mission and directly benefits the majority of Humboldt County's residents, and contributes to the vibrant species habitat of the watershed.

The Mad River Alliance's MRWQMP is in alignment with our District's mission and that of the Rose Foundation which is: "... to support grassroots initiatives to inspire community action to protect the environment, consumers and public health." Therefore, we enthusiastically endorse your application to the Rose Foundation for a grant to further your implementation of your MRWQMP.

Respectfully,



John Friedenbach
General Manager



A Solid Foundation for the Future

Acting on the discount rate, asset allocation, and amortization, CalPERS has built a solid path forward for the long-term future of the fund.

We have provided retirement security for California’s public employees for more than 85 years. Through good times and bad, CalPERS has been a strong, reliable presence in our members’ lives. Our \$21 billion in annual benefit payments help fuel economic activity across the Golden State.

How We’ve Strengthened the Fund

Over the past few years, we’ve adopted strong measures to ensure the long-term future of the CalPERS fund so that we can pay the benefits our members have earned after a career in public service.

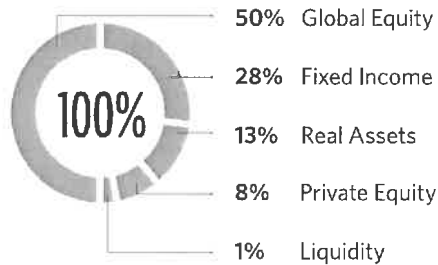
Lower Discount Rate

Lowered the discount rate from 7.5% to 7% over three years
(assumed rate of return)



New Asset Allocation

Adopted new strategic asset allocation effective July 1, 2018



Shorter Amortization

Shortened the amortization period for employers to pay their unfunded liability



Our Members Tell Our Story

They depend on us to help them achieve a measure of financial security in retirement after a career dedicated to public service.

We partner with 2,945 employers to provide pension benefits for retirees and their beneficiaries on behalf of the state, public agencies, school districts, and special districts. Our members include public employees from across California, including peace officers, firefighters, secretaries, custodians, bus drivers, and their beneficiaries.



\$21.4 bil. paid in pension benefits annually (FY 2016-17)



\$2,876 average monthly allowance for all retirees



\$3,182 average monthly allowance for members retiring in FY 2016-17



64% of all service retirees receive monthly allowance less than \$3,000



3% only earn pensions greater than \$100,000, typically city leaders, physicians, and university employees



38% School members

31% Public Agency members

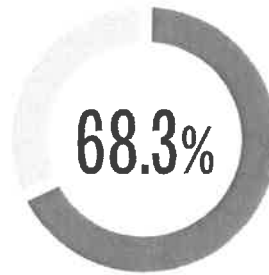
31% State members

Investing for the Long Term

Our bottom line is strong and getting stronger.

The numbers that measure a pension plan's health have been on the rise, and recent investment returns and cash flow improvements only strengthen our position.

Every dollar we save by reducing our operating or investments costs, or by developing simpler, more efficient processes, is another dollar we can invest toward our members' benefits.

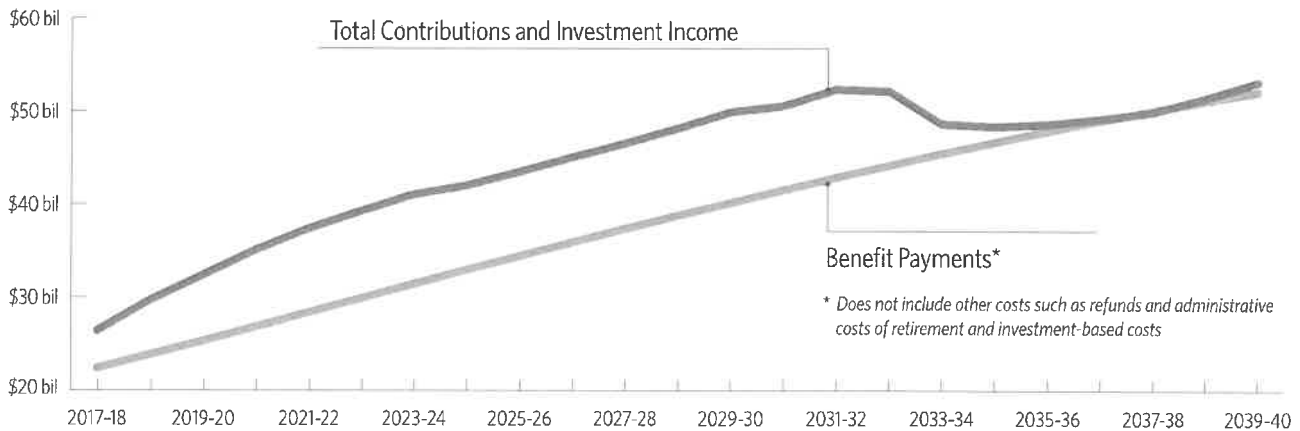


Funded Status
2015-16



Funded Status
December 31, 2017

Total Fund Cash Flows are Improving



\$350 billion

in assets as of December 31, 2017



1.5-2% reduction

in overhead costs each of the next 5 fiscal years



15.7% investment returns

in calendar year 2017; 11.2% in FY 2016-17



300+ → 150 reduction

in external managers



\$47 billion

increase in assets in calendar year 2017



\$170 million savings

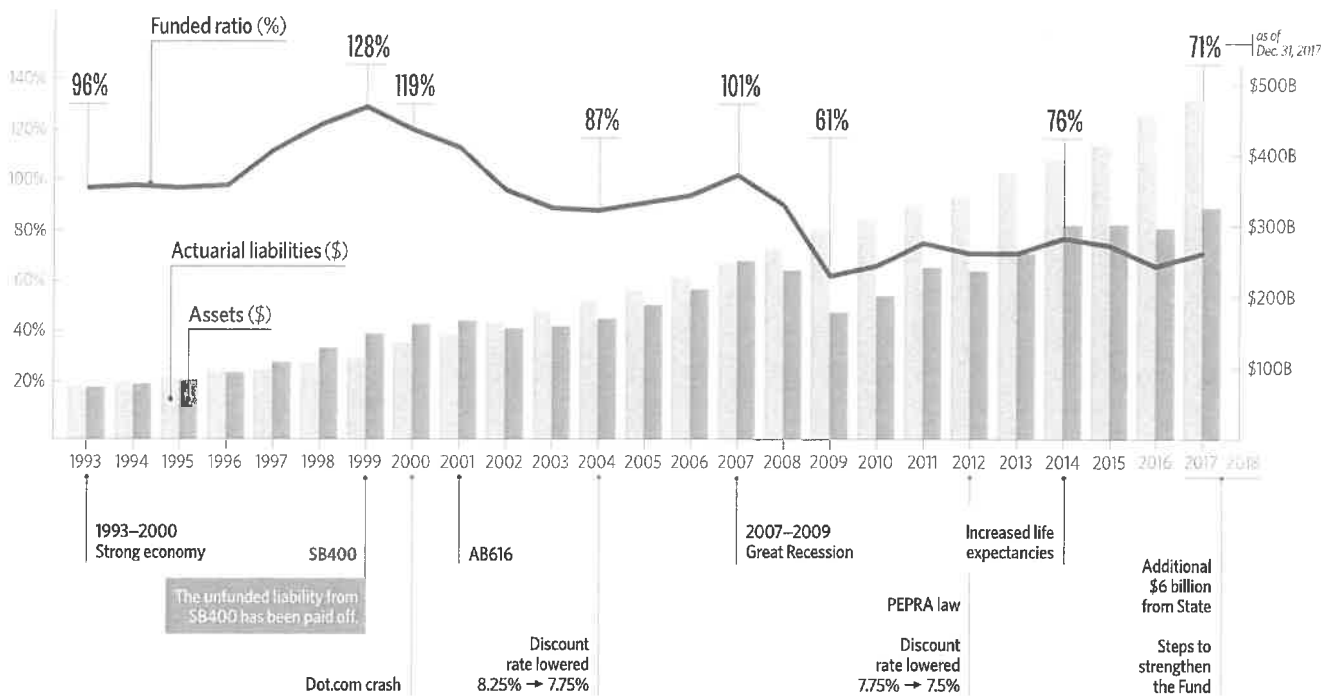
in reducing investment expenses in FY 2015-16

Retirement Security Across the Decades

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BRIEF

Local California government agency strikes partnership to develop first floating wind farm

By Robert Walton • April 4, 2018

Dive Brief:

- A local government collaboration aimed at developing renewable energy in northern California has selected a consortium of five companies to construct a 100-150 MW floating wind farm off the coast of Eureka, Calif.
- The Redwood Coast Energy Authority said it received six responses to a request for qualifications issued in February. RCEA includes nine members including Humboldt County and the city of Eureka.
- The project is being led by Spain's EDP Renewables and Houston-based Principle Energy Inc. Officials say the project will drive investment in local infrastructure at the Port of Humboldt Bay and other nearby onshore facilities.

Dive Insight:

While the United States is just beginning to develop an offshore wind industry, the bulk of efforts have been concentrated on the East Coast. Now led by Humboldt County, the RCEA is looking to act as a "prospective stepping stone for the offshore wind energy industry on the West Coast."

The group touted Humboldt's physical advantages to There is ample wind — the best California has, they say— with average wind speeds of more than ten meters per second. The proposed project could be up to 150 MW and would be located more than 20 miles off the coast of Eureka.

RCEA is a local government joint powers agency and includes Humboldt County and the cities of Arcata, Blue Lake, Eureka, Ferndale, Fortuna, Rio Dell, and Trinidad. The Humboldt Bay Municipal Water District is also a member. In addition to Principle Power and EDPR, companies involved in the consortium include Aker Solutions Inc., H.T. Harvey & Associates, and Herrera Environmental Consultants.

Some 3,000 miles away, the offshore market is farther along in development.

Earlier this year, the New York State Energy Research and Development Authority issued a "master plan" for developing the state's offshore wind energy industry to help meet its target of 2,400 MW of offshore wind energy by 2030. Massachusetts has set ambitious offshore wind goals as well.

Connecticut could also be developing the resource should it choose one of the offshore wind projects submitted for its request for proposals to boost its clean energy. And in New Jersey, state regulators will hold a solicitation for 1,100 MW of offshore capacity.

Recommended Reading:

 North American Windpower
Public-Private Partnership Works Toward California Floating
Offshore Wind [↗](#)

Why your water provider is fighting California's ban on watering sidewalks

BY DALE KASLER AND RYAN SABALOW
dkasler@sacbee.com

March 15, 2018 12:46 PM
Updated 2 hours 35 minutes ago

It seemed like the sort of thing any drought-wary Californian could support.

The state's water cops were poised last month to pass a set of rules prohibiting what most everyone agrees are wasteful water uses –like letting water from a hose without a nozzle flow into a storm drain.

But no change in California water policy ever comes easily. The State Water Resources Control Board's proposal to impose permanent conservation rules – such as prohibiting hosing down driveways, watering lawns less than two days after it rains and washing a car without attaching a shut-off nozzle to the hose – ran into a cascade of opposition. Leery of ceding any power to the state, practically every major water agency in California, from Sacramento to San Diego, stepped up to complain the water board was overstepping its legal authority.

The board postponed its vote.

The controversy comes at a delicate time. Eleven months after Gov. Jerry Brown declared an end to the drought, water usage is starting to creep back up in California: Urban consumption increased 5 percent last year as mandatory conservation restrictions were lifted, although usage was still 16 percent below the 2013 baseline figures used by the state water board.

Now, with California experiencing a dry winter and the possibility of another drought, Californians' stomach for conservation is about to be tested again. The state water board plans to resurrect its proposal in April. Separately, the Legislature is working on a pair of bills that in some respects would go even further in governing how much water Californians are allowed to use.

Designed to make conservation "a California way of life," the legislation would impose a long-lasting, comprehensive framework on water usage – drought or no drought. AB 1668 and SB 606 would establish overall standards for indoor and outdoor water consumption. Local water agencies would have plenty of input on how the standards are set, but if they miss the targets they could get fined thousands of dollars.

The idea is to get Californians to gradually consume less water.

"There's a lot of things we can do to be more efficient, and that's the goal of this," said Assemblywoman Laura Friedman, D-Glendale, author of AB 1668. "It's very important considering that we're going now into another drought, it looks like."

State officials are convinced that Californians are committed to saving water. During the drought, when mandatory cutbacks were imposed, the most frequent complaint from the general public was about neighbors over-watering their lawns and flouting the rules, said Felicia Marcus, chairwoman of the state water board.

"The average Californian wants to conserve and wants everybody else to conserve, and wants it to be as fair as possible," Marcus said. A Field Poll in 2016, when the drought was still severe, showed that 74 percent of Californians said curtailing water use was "very important."

Nonetheless, local water agencies are constantly on guard against efforts at the state level to restrict local water usage. They fought the cutbacks Brown mandated in 2015, during the worst of the drought. It cost them millions in revenue: and most water agencies in the Sacramento area said it was unfair that they had to slash use by 36 percent even though the region's actual water supplies were in fairly good shape.

"Most agencies didn't have a need to take a 36 percent cut," said John Woodling of the Sacramento Regional Water Authority, which represents area water agencies. "They had more water supply available than that. That was really state top-down rationing."

So perhaps a blowup over the state water board's proposal was inevitable. Marcus' agency is proposing to permanently ban certain practices that were temporarily forbidden during the drought. Hotels and motels would have to remind guests, in writing, that they can reuse their towels and sheets. Cities wouldn't be allowed to water grassy medians, with certain exceptions. Homeowners couldn't water their lawns so heavily that the water runs into the sidewalk or street.

The board says it has ample legal authority – granted by the state's Constitution – to impose restrictions on the "waste and unreasonable use" of water. Nonetheless, the proposal was tabled after local water agencies protested. The agencies didn't disagree with the proposals themselves but said the board was going too far in defining what's considered an "unreasonable use" of water. That phrase is a crucial element in California's complicated system of water rights.

Photo contest focuses on 'Images of Water'

By The Times-Standard

Thursday, March 8, 2018

The Humboldt Arts Council is reviving its Images of Water Photography Competition & Exhibition, and the call for entries is now available at the Morris Graves Museum of Art in Eureka or at www.humboldtarts.org.

The Images of Water Photography Competition & Exhibition is open to all photographers. Submissions will be accepted by mail and in person April 25 from noon to 5 p.m. at the Morris Graves Museum of Art, 636 F St.

This year's juror is Aldaron Laird. Laird, has been a photographer most of his life. While at HSU from 1975 to 1978, Laird studied under Tom Knight and has always enjoyed landscape photography. Professionally, he has been an environmental planner for 28 years, working on projects that enhance riverine and estuarine ecosystems, conducting historical research to document how local rivers and bays have changed over the last 160 years and, most recently, as a sea level rise adaptation planner. Laird has extensively explored Humboldt Bay, its history, land use, ecology and its future. In 2013, he completed a comprehensive inventory and mapping of Humboldt Bay's shoreline. In order to ground truth his mapping, Laird walked or kayaked the entire shoreline of Humboldt Bay. His shoreline exploration provided him a unique opportunity to document all 102 miles of shoreline, amassing over 15,000 photographic images.

Water has been a central theme in Laird's life, in his professional work, as president of the Humboldt Bay Municipal Water District, as a representative on the Board of the Association of California Water Agencies and as a photographer and kayaker.

For additional entry information, call the Humboldt Arts Council at 707-442-0278 or visit www.humboldtarts.org.

URL: <http://www.times-standard.com/lifestyle/20180308/photo-contest-focuses-on-images-of-water>

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From Water Deeply



Atmospheric river storms bring a fire hose of tropical moisture to Western states, often delivering a majority of winter's total precipitation in just a few days. Scientist Bryan Mundhenk talks about a new way to predict these storms up to a month in advance.

WRITTEN BY Matt Weiser

PUBLISHED ON March 16, 2018

READ TIME Approx. 4 minutes



Allen White, a research meteorologist at the National Oceanic and Atmospheric Administration in Boulder, Colorado, poses next to a satellite image of an atmospheric river storm in February 2015. The storm's long finger of moisture is shown touching the California coast and stretching across the Pacific Ocean. Craig F. Walker/The Denver Post, via Getty Images

ATMOSPHERIC RIVERS ARE vital to western water supplies, yet until very recently they were poorly understood: difficult to predict and measure, and very hard for scientists to estimate where they would make landfall.

These are often erroneously called “pineapple express” storms, a term that applies to only a subset of atmospheric river events that originate near Hawaii. Most atmospheric river storms begin in the more distant tropical ocean and develop into a narrow band of strong winds that funnel huge quantities of moisture toward the West Coast of the United States. These storms are so wet that just a handful can account for half of California's total winter precipitation.

New research in the last few years has uncovered some of the mystery behind atmospheric river storms, helping to predict storm timing and intensity. Now a new study by scientists at Colorado State University in Fort Collins has revealed a way to predict atmospheric river storms as much as five weeks in advance. That's well beyond what current tools allow, and it could provide enough lead time to make important decisions about water management.

The method describes a new way to interpret two other large-scale weather phenomena – the Madden-Julian oscillation (MJO) and quasi-biennial oscillation (QBO) – as a signal for atmospheric river events.

Water Deeply recently talked to the study's lead author, Bryan Mundhenk, a PhD candidate in atmospheric science.

Water Deeply: What is our ability to predict atmospheric rivers today? What are the challenges?

Scientist Bryan Mundhenk is the author of a new report about improvements in predicting atmospheric river storms.

Bryan Mundhenk: In general, the current generation of numerical weather prediction models provides very useful information about atmospheric rivers a week or two out. Some of the decision tools – like those available [from the Center for Western Weather and Extremes] at

Scripps – are based on these models to help anticipate atmospheric river timing and intensity along the U.S. West Coast.

We focused this study on the subseasonal timescale, beyond the point where today's numerical models generally lose skill. We defined this subseasonal timescale as forecast lead times [that are] out two to five weeks. A lot of resource decisions are made within this time scale – think about adjusting reservoir levels, anticipating energy needs or planning outdoor events – but no tools are available to guide decision-makers in regions prone to atmospheric river landfall.

Water Deeply: What are the MJO and QBO?

Mundhenk: The Madden-Julian oscillation, or MJO, is the dominant mode of intraseasonal variability in the tropics. It represents large clusters of storms in the tropics that progress along the equator. The MJO is quite variable, but these storm clusters wrap around the globe every 30–90 days.

The quasi-biennial oscillation, or QBO, characterizes the winds in the stratosphere high above the tropics. Our interest in the QBO is based on research from a few years ago that revealed that the state of these upper-level winds can influence the MJO, as far as the strength of the storms in the tropics and the speed at which they propagate around the globe [goes].

Water Deeply: How do the MJO and QBO influence atmospheric rivers?

Mundhenk: This concept is exploiting the ability of the atmosphere to support teleconnections. That is, when and where weather in one location on the globe is related to – and can influence – weather at a distant location.

The tropical storms characterized by the MJO can elicit a wave response that travels around the globe. Think of a storm in the tropics as a stone dropped into a pond. The resulting ripples in that pond are like the wavelike teleconnection response to the stone being dropped. Granted, the ripples in the pond dissipate quickly, but the large-scale response to tropical forcing can take weeks to impact distant parts of the globe.

Water Deeply: It sounds like you've developed not a weather model, but a new method of observing and interpreting the MJO and QBO. Is that right?

Mundhenk: That's right. This method was really an attempt to see if the teleconnection responses could provide useful information within the subseasonal time scale. We used the initial state of the MJO and the QBO to predict anomalous atmospheric river activity two to five weeks in the future.

For example, say on a day in the winter there are strong storms in the Indian Ocean – we call this MJO phase 1 – and easterly winds in the stratosphere over the tropics. Then one should expect higher than normal likelihood of landfalling atmospheric river activity near coastal British Columbia approximately three weeks in the future.

Water Deeply: How accurate are your predictions using this method?

Mundhenk: In that example about heightened atmospheric river activity near British Columbia three weeks into the future, the prediction of increased activity would be correct a maximum of 20 times out of 30. Perhaps more important than the skill value itself, at this stage, is that this finding suggests the dynamics of the atmosphere – the teleconnection responses – can provide useful information about atmospheric river activity well into the subseasonal time scale.

Water Deeply: Do your predictions also provide accuracy about where atmosphere rivers will make landfall?

Mundhenk: We applied this technique to a few regions along the West Coast of North America, but the regions were fairly expansive. It is important to note that this technique targets periods of anomalous atmospheric river activity, not individual atmospheric rivers themselves.

Many locations along the West Coast have pronounced wet seasons during which atmospheric rivers are more common. Say, for a given region, one atmospheric river makes landfall approximately every five days during winter. That would be the “normal.” This technique attempts to predict deviations from that normal.

Sierra foothills dam, part of SF's Hetch Hetchy system, pushed to near failure

From San Francisco Chronicle

By Michael Cabanatuan and Kurtis Alexander

March 22, 2018 Updated: March 23, 2018 9:09am

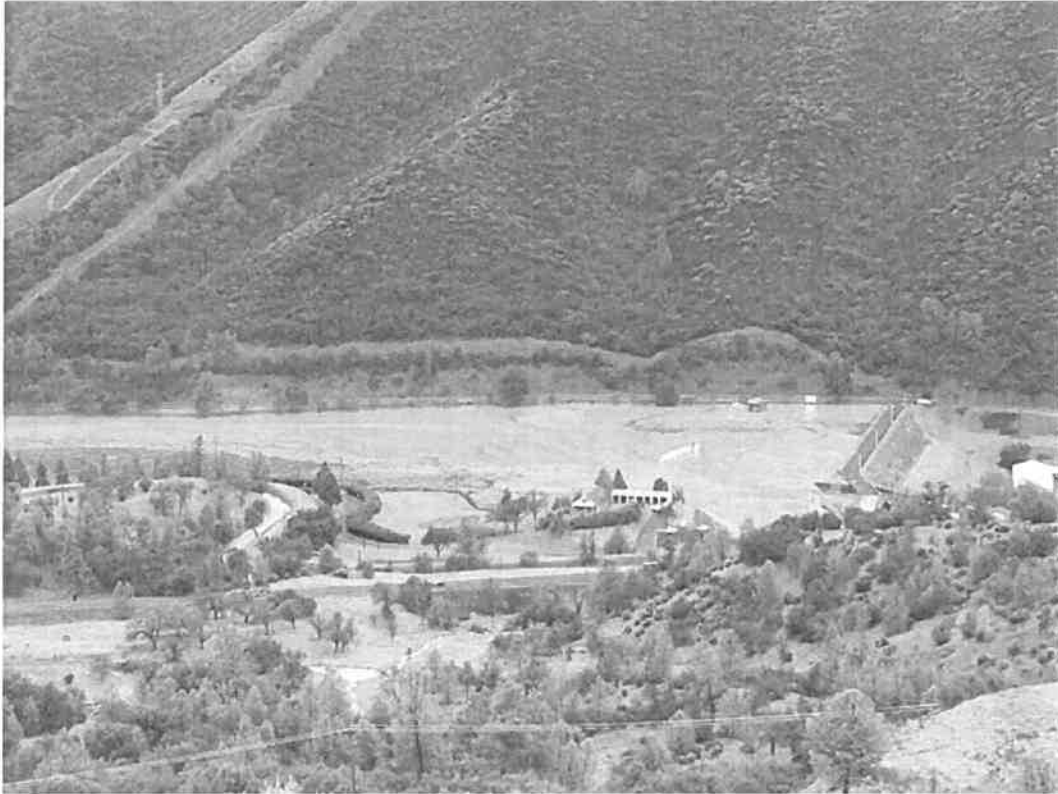


Photo: Tuolumne County Sheriff's Department

Moccasin Reservoir Dam in the Sierra foothills on Wednesday. Officials warned the dam is in imminent danger of failing.

MOCCASIN, Tuolumne County — Heavy rain in the Sierra foothills pushed a small dam within San Francisco's Hetch Hetchy water system to the brink of failure Thursday, sending a brief scare through the rural region where roads were closed and a few dozen residents were forced to evacuate.

Officials at the San Francisco Public Utilities Commission said the danger in the area, west of Yosemite National Park, had diminished by nightfall as the storm gave way. There was no interruption to water service for the agency's 2.7 million Bay Area customers.

But questions remained about why the nearly 90-year-old Moccasin Reservoir, which is used primarily to regulate stream flows and had not experienced any major problems in recent years, suddenly threatened to shoot a blast of water uncontrollably downstream.

“The intensity of the precipitation was really quite high here,” said Steve Ritchie, assistant general manager for water for the Public Utilities Commission. He said more would be known later this week, once the agency lowered the reservoir’s water level and thoroughly inspected the facility. Only minor damage was reported.

Water officials say the problem began when Thursday’s storm swelled Moccasin Creek with an unusual amount of water and pushed the surging stream and all its debris into the reservoir just below the community of Moccasin. Dam operators were unable to let water out of the reservoir’s two spillways as fast as water was coming in. The face of the dam began to leak, officials said.

“The flow overwhelmed the emergency spillway system of the dam and the water rose to levels that concerned us,” said Todd Elmer, spokesman for the Public Utilities Commission.

Shortly after 1 p.m., water officials activated the reservoir’s emergency plan. Evacuations were ordered for a fish hatchery beneath the dam, a few dozen residents near the creek and a campground and marina about a mile downstream at Don Pedro Reservoir.

Roads in the sparsely populated area were closed, including Highway 49, which runs near the reservoir and where surging flows from the lake began pouring onto the hillside beneath the road.

“There was so much water and so much debris coming at such a quick pace that the water tried to find a path around the dam and started eating away at the road,” said Rich Estrada, a Caltrans spokesman.

The National Weather Service issued a flash flood warning, reporting that the dam was at risk of “imminent failure.”

By 6 p.m., though, stream levels had dropped, and the Public Utilities Commission said the reservoir was stable. Evacuations remained in effect overnight as a precaution.

Even if the dam did fail, officials said the impact would be limited. The reservoir is one of the water agency’s smallest, with a capacity of less than 1,000 acre-feet of water, and floodwaters would be caught downriver in the much larger Don Pedro Reservoir.

Threats of dam failure in California are extremely rare. However, the last major reservoir scare was just over a year ago. Two spillways at the state-run Oroville Dam partially gave out, prompting authorities to order nearly 200,000 people to evacuate out of fear that a wall of water would gush out of the facility.

State and federal officials have since boosted dam safety inspections.

Moccasin Reservoir was last inspected in May, according to state officials. The safety evaluation was not immediately available.

Ritchie, with the San Francisco Public Utilities Commission, said near-record rainfall in winter 2016-17 similarly pushed a lot of water into Moccasin Creek, but the dam has not had any major problems as long as he can remember.

Moccasin Dam was built in 1930. It's an earthen structure 60 feet high and 720 feet long. Water can be released from the reservoir through a main spillway, where it pours over a concrete lip into the creek, and a backup, rock-lined spillway that carries flows around the dam.

The dam is used to generate a small amount of power and to control flows on Moccasin Creek between the High Sierra and Don Pedro. It's not a major water storage site.

The community of Moccasin, above the dam, is home to offices and employees of the Public Utilities Commission and serves as a hub in San Francisco's sprawling water-delivery network from the mountains.

Chronicle staff writer Dominic Fracassa contributed to this report.

Michael Cabanatuan and Kurtis Alexander are San Francisco Chronicle staff writers. Email: mcabanatuan@sfchronicle kalexander@sfchronicle.com Twitter: [@ctuan](https://twitter.com/ctuan) [@kurtisalexander](https://twitter.com/kurtisalexander)

Heavy Rains Force Evacuation Below Tuolumne County Dam

- [Bob Moffitt](#)

Thursday, March 22, 2018 | Sacramento, CA | [Permalink](#)

from Capital Public Radio / Sacramento State

Operators of the Moccasin Creek Dam issued an "imminent failure" warning Thursday.

Tuolumne Co. Sheriff / Twitter

Operators of the Moccasin Creek Dam issued an "imminent failure" warning Thursday, but that status was downgraded to "potentially hazardous" according to Tuolumne County Sheriff James Mele.

There were some evacuations. Peter Tira is with the Department of Fish and Wildlife. He says the department operates a hatchery downstream that holds one and a half million trout of all ages.

"We evacuated all nine of our employees and their families who live and work at the hatchery or right nearby the hatchery," he explained.

The San Francisco Public Utilities Commission operates the dam and says it observed the reservoir "leaking" at about one o'clock this afternoon.

The commission says heavy rains caused a lot of water to enter the Moccasin Reservoir along with a lot of debris. Water began spilling over the primary and emergency spillways.

Water was receding at last check, but if the dam fails, the commission says Lake Don Pedro would handle the flood waters without a problem.

The National Weather Service says Highway 49 has been flooded due to outflow from the emergency spillway. Highway 120 may be also be impacted.

Sheriff Mele reported some streets also became inundated with water.

"There was a "basically a river running through downtown Groveland," Mele said.

He also says some students in the county were forced to shelter in place as buses were unable to reach them.

Up to 300 dead cows found in piles at Arcata Bottoms ranch, sheriff's office says

Owner posted \$25K bail, may face additional charges

By Will Houston, Eureka Times-Standard

Tuesday, March 20, 2018



As many as 300 dead cows were found heaped in piles 10 feet high or laying in waterways at Raymond Christie's Arcata Bottoms ranch during a multi-agency raid this week, the Humboldt County Sheriff's Office confirmed today.

Sheriff's office Livestock Deputy Travis Mendes described the case as unusual.

"The number of deceased cattle located is very significant," Mendes said today.

Christie, 54, was arrested at his Jackson Ranch Road ranch on Monday on suspicion of animal cruelty, causing an animal to be cruelly killed, failure to provide proper care to an animal, and disposal of a carcass within 150 feet of a state waterway. Sheriff's office public information specialist Samantha Karges said

today that the investigation is ongoing.

"He could be facing additional charges," Karges said.

Christie was booked in the county jail Monday and was released that day after posting a \$25,000 bail, according to jail records.

Nine federal, state and local agencies descended on Christie's ranch on Monday following a five-month investigation of "large-scale animal cruelty complaints," the sheriff's office states.

The sheriff's office released more details today on what was found at the ranch:

- Piles of dead cows stacked as high as 10 feet near an excavator.
- Cow bones and remains located in or near waterways.
- A large number of cows — many of which were malnourished — in small or insufficient corrals.
- Five violations of dogs in unsanitary conditions.
- Eight violations of dogs without water.
- Five violations of inadequate space for dogs to move freely.
- Four violations of primarily housing a dog on wire flooring.
- 21 violations of disposal of a carcass within 150 feet of a state waterway.

The state put 179 cows from the ranch on hold for possible repossession depending on the findings of the investigation, according to the sheriff's office.

Humboldt Bay Municipal Water District General Manager John Friedenbach said that all of its drinking water pumps are located several miles northeast at Essex and would not be affected by any contamination of water at the Christie Ranch. The district provides drinking water to about two-thirds of county residents.

Arcata Environmental Services Director Mark Andre said that the city's drinking water well is located about seven miles away from the Christie ranch and would not be affected either.

Senior environmental scientist Katharine Carter of the North Coast Regional Water Quality Control Board said that the biggest issue posed by livestock decomposing in or near waters is bacterial and viral contamination of the surrounding area and waters. She said decomposition can also decrease oxygen levels in the water.

Carter said they have asked to be informed of any updates to the investigation and will later determine whether any water quality violations occurred.

Humboldt County Agricultural Commissioner Jeff Dolf said that the county has not had a local facility or local service to dispose of deceased livestock and other large animals since 2003 when the Eureka Protein Co. facility at the south end of Eureka closed. The burden of dealing with dead livestock now falls on the owner.

North State Rendering Co, Inc. of Oroville had been the only alternative left for local ranchers, slaughter houses and butchers to dispose of animal carcasses and byproducts. However, the [company ceased its operations in the county in November 2015](#), citing high costs.

Dolf said that deceased livestock is inherent to animal agriculture.

“They get sick and they may not respond to treatment. There is mortality associated with animal agriculture,” Dolf said. “Having said that, the people that have these animals and care for them, they really care about their animals. It’s an investment for them. The majority of people that are responsible agricultural producers take care of those animals.”

Other than hiring another disposal company out of Sacramento — which Dolf said would be cost prohibitive to most producers — the only other option is to follow guidelines by the county and UC Cooperative Extension on how people can safely dispose of dead livestock.

“Certainly if it’s a cow or horse, it’s not possible to double-bag it and put it in the trash,” Dolf said.

These guidelines include burying the animals certain distances from water sources, high-water marks, groundwater levels and other areas.

Will Houston can be reached at 707-441-0504.

URL: <http://www.times-standard.com/general-news/20180320/up-to-300-dead-cows-found-in-piles-at-arcata-bottoms-ranch-sheriffs-office-says>

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SECTION E3, PAGE NO. 15

As Fire Risk Explodes Across the West, an Oregon City Finds a Solution

Using selective logging and controlled burns, Ashland has reduced fire risk on thousands of acres in the forested watershed that provides the city's drinking water. The partnership that made it happen could be a model for other fire-prone communities.

WRITTEN BY Matt Weiser

PUBLISHED ON Feb. 20, 2018

READ TIME Approx. 6 minutes



A crew burns slash piles in 2016 that were left behind from logging activity in the watershed that Ashland, Oregon, relies upon for its municipal drinking water. The work is part of the Ashland Forest Resiliency Project. Courtesy City of Ashland

ALL OVER THE West, overgrown forests represent a ticking time bomb. A century of fire suppression and inappropriate logging practices have left forests dangerously overgrown. Add climate change – rising temperatures, shrinking snowpacks – and the threat of catastrophic fires becomes very real.

In California, thousands of homes were recently incinerated in Santa Rosa and Santa Barbara by fires that could not be controlled. In the latter case, subsequent mudslides killed more people than the original fires and also harmed water quality.

Fixing the problem is difficult. Simply cutting down overgrown vegetation is expensive and poses many environmental concerns. Lighting more controlled burns raises worries about chronic smoke inhalation and the potential for a runaway fire.

Now, a solution may be emerging in the southern Oregon town of Ashland, home to the famous annual Shakespeare festival. Ashland has been working quietly for years to thin the overgrown forests that form the town's scenic backdrop.

Motivated largely by a desire to protect its drinking water, Ashland has used selective logging and controlled burns to reduce fire risk. The goal is to return its forested watershed to a more natural state, one that can handle low-intensity fires on a regular basis without killing big trees and polluting the water supply.

The city draws its potable water from Ashland Creek, and for years had no other supply to tap in a pinch. The watershed is highly erosive, meaning a serious fire could harm water quality and clog Reeder Reservoir, the storage point for the city's water system.

"Other cities have multiple watersheds," said Chris Chambers, forest division chief for the city of Ashland. "If one burns it's a big deal, but they have other sources. We're not in that scenario. We really have all of our eggs in one basket."

Ashland launched its Forest Resiliency Stewardship Project in 2010 in partnership with the U.S. Forest Service, The Nature Conservancy and the Lomakatsi Restoration Project, a nonprofit based in Ashland that specializes in habitat projects. By the end of 2019, it's expected that 10,800 acres will have had both thinning and burning treatments, according to Chambers.

It's a remarkable achievement for any city, but particularly so for Ashland, where protesters demonstrated in the 1990s against logging plans in the surrounding Rogue River-Siskiyou National Forest, partly out of concern for endangered spotted owls.

"There was this whole paradigm shift," said Darren Borgias, Southwest Oregon forest project director at The Nature Conservancy. "We're fundamentally changing the culture's relationship to fire, and Ashland is helping to represent what that change could be."



Trees logged out of the steep slopes in Ashland's watershed are lowered by helicopter to a waiting ground crew. The work was part of the Ashland Forest Resiliency Project. Trees cut by the project averaged 13 inches in diameter, and many were sold to the forest-products industry. Large trees were avoided. (Photo Courtesy Evan Barrientos, The Nature Conservancy)

The origins of the project date back to 2003 and passage of the Healthy Forests Restoration Act. This federal law allowed local governments to draft a "community wildfire protection plan," and required the national forest in the area to consider this plan as an alternative to whatever standard practices it had in place at the time for managing wildfire risk.

Borgias praised the Rogue River-Siskiyou National Forest for embracing this new path.

"The Forest Service helped enable this fresh opportunity for the city to convene people and develop a community alternative," he said. "They recognized there had been a hard time in getting along with the community in managing the forests."

The local plan became known as the Ashland Forest Resiliency project. It also benefited from some good timing.

By the time the project was getting rolling in 2009, the national economic recession was in full swing, and the Obama administration was offering large grants for job-creating projects under the American Recovery and Reinvestment Act.

The Ashland Forest Resiliency Project was the sort of "shovel ready" project those federal funds were intended for, Borgias said. The Rogue River-Siskiyou National Forest was awarded a \$6.2 million federal grant in 2009 to launch the project.

Besides actually thinning the forest in Ashland's watershed, the forest resiliency project has created 17 full-time equivalent jobs directly related to the forest work, and an estimated 90 additional indirect full-time jobs.

It also produced more than \$5 million in revenue from wood products sold from the forest thinning work. Most of the wood was chipped to produce plywood.

Even so, the project has not been a money-maker. One reason is that expensive helicopter logging was ordered in many locations to minimize erosion. Another is that large, old-growth trees were declared off-limits to cutting, to protect habitat for spotted owls and other wildlife. The average tree size removed during the forest thinning work was only 13 inches in diameter.

In subsequent years, the partners secured nearly \$14 million in additional grants from state and federal sources to continue the work. Ashland residents provided matching funds, too: The city imposed a \$1.29 monthly fee on every water customer to subsidize the work. This generates about \$175,000 annually, Chambers said.

“At the time it was passed, it was clear to us we had to put some skin in the game in order to leverage federal funding,” he said. “It’s been very successful in doing that.”



This is what the Ashland Forest Resiliency Project is designed to protect: Ashland Creek, the pristine stream that provides the town's drinking water. Keith Perchemlides, a field ecologist with The Nature Conservancy, measures riparian canopy closure as part of aquatic monitoring along the creek. (Photo Courtesy Evan Barrientos, The Nature Conservancy)

The town has an unusual relationship with its forested watershed that dates back to 1891 with the passage of the Forest Reserve Act, which allowed cities to petition the president to protect their municipal watersheds as a “forest reserve” where logging would be limited.

Remarkably, only two cities in the West took advantage of this opportunity – Portland and Ashland, Oregon. As a result, Ashland’s watershed experienced no clearcut logging during the 20th century, unlike most areas of the West. This spared it from one fire-risk factor: When trees grow back after clearcutting, it results in a so-called “even-aged” forest that is more fire-prone.

But for many decades, the city’s watershed did experience the heavy hand of fire suppression. As in so many communities, fire was considered bad and virtually every fire was extinguished as rapidly as possible. This produced an overgrown forest, thick with flammable underbrush and small trees.

Severe fires have hit the watershed in the past, notably in 1910 and 1959, causing heavy erosion that affected Ashland’s water supply. On several occasions, Chambers said, the city has spent millions of dollars to dredge sediment from Reeder Reservoir.

These days, Ashland has the ability to purchase water from the neighboring city of Medford. But that water is expensive, Chambers said, and considered an emergency supply.

The other key ingredient in Ashland’s plan was convincing the public that a little bit of logging and managed fire were necessary to help the forest. Public attitudes gradually shifted as the forest resiliency plan was developed over many public meetings. Slowly, people began to trust that it wasn’t a logging plan in disguise, Borgias said.

“From the very onset, it was not just an agency representative riding in on their white horse and saying, ‘Here’s what we’re going to do,’” he added. “But it was the agency inviting the public to become engaged.”

The Ashland Chamber of Commerce also became an important player. It held meetings to educate its members about the forest resiliency project, and it partnered with the city to produce educational materials.

Sandra Slattery, the chamber's executive director, said she was motivated to help because the forest is the city's scenery. "It is not only the source of our water, but it is also the physical backdrop to our community," Slattery said. "If there was a massive wildfire, it would be devastating. Not only for the flora and fauna and everything up there, but for our tourism-based economy."

Sometime in 2019, Chambers said, the Ashland Forest Resiliency Project will meet its original goal of reducing fire danger on 7,600 acres of federal land. The heavy logging is finished, and all that's left is controlled burning and brush clearing on less than 1,000 acres.

After that, the goal is to maintain the area using controlled burns about once a decade.

Has it worked? Chambers is honest: Ashland won't really know until the next wildfire hits. But he said the partners can take comfort knowing they've done everything possible to protect the community and its water supply.

"We've brought the community along and shown them, in fact, logging can happen and the forests are healthy and vibrant after," he said. "Cities need to find a way to participate in these kinds of projects. In the end, the alternative is doing nothing. We know what the outcome of that is going to be."

From DWR

Statewide Water Content Still Far Below Average Despite Late Winter Storms

Published: Apr 02, 2018



DWR Director Karla Nemeth assists Frank Gehrke with the April 2018 snow survey

SACRAMENTO — Following one of the driest Februaries in California history, late winter storms increased the Sierra Nevada snowpack but were not enough to put the state on track for an average year.

Today's snow survey by the California Cooperative Snow Surveys Program indicates that water content in the statewide mountain snowpack increased from 23 percent of the March 1 average to 52 percent of today's historical average. The early-April snow survey is the most important for water supply forecasting because the snowpack is normally at its peak before it begins to melt with rising spring temperatures.

"These snowpack results – while better than they were a few weeks ago – still underscore the need for widespread careful and wise use of our water supplies," said California Department of Water Resources Director Karla Nemeth. "The only thing predictable about California's climate is that it's unpredictable. We need to make our water system more resilient so we're prepared for the extreme fluctuations in our water system, especially in the face of climate change."

The snow survey conducted at Phillips Station by Frank Gehrke, chief of the California Cooperative Snow Surveys Program, found a snow water equivalent (SWE) of 12.4 inches, or 49 percent of average for this time of year as recorded since 1964. SWE is the amount of water contained within the snowpack. The snowpack normally provides

about a third of the water for California's farms and communities as it melts in the spring and summer and fills reservoirs and rivers.

"Despite recent storms, today's snow survey shows that we're still playing catch-up when it comes to our statewide water supplies," said Gehrke. "While today's snow survey determined that the water content is much higher than February, the state will remain well below average for the year."

In addition to the manual surveys conducted at Phillips, DWR also logs electronic readings from 103 stations scattered throughout the Sierra. Electronic measurements indicate the SWE of the northern Sierra snowpack is 11.8 inches, 43 percent of the multi-decade average for today's date. The central and southern Sierra readings are 17.6 inches (60 percent of average) and 12.9 inches (50 percent of average) respectively. Statewide, the snowpack's SWE is 14.6 inches, or 52 percent of the April 2 average. **Electronic snowpack readings are available on the Internet at: <http://bit.ly/2rVa84a>**

The Phillips snow course, near the intersection of Highway 50 and Sierra-at-Tahoe Road, is one of approximately 260 that are surveyed manually throughout the winter. Manual measurements augment the electronic readings from the snow pillows in the Sierra Nevada that provide a current snapshot of the water content in the snowpack.

Results of the readings by DWR at Phillips Station and Tamarack Flat are as follows:

Location	Elevation	Snow Depth	Water Content	% of Long-Term Average
Phillips Station April 2, 2018	6,800 feet	32.1 Inches	12.4 Inches	49
Tamarack Flat April 2, 2018	6,500 feet	38.8 inches	16.7 inches	60

California's exceptionally high precipitation last winter and spring resulted in above-average storage in 154 reservoirs tracked by the Department. DWR estimates total storage in these reservoirs at the end of March was 28.2 million acre-feet (MAF), or 107 percent of the 26.4 MAF average for this time of year.

City: Fountaingrove water system needs \$43 million replacement due to contamination after Sonoma County fires

KEVIN MCCALLUM

THE PRESS DEMOCRAT | March 22, 2018, 9:01PM

The entire water-delivery system in a 184-acre section of the devastated Fountaingrove neighborhood will likely need replacement after becoming contaminated with benzene, and it appears the city will initially be on the hook for a project whose estimated costs have soared to \$43 million.

The intensive investigation into the exact cause of the contamination continues, but officials say they now understand how the cancer-causing hydrocarbon found in gasoline and plastics made it into the water mains in the area.

The city's team of water engineers, consultants and regulators is "converging on the recommended approach" that would require the "full replacement of the distribution system, from the water mains to the meters on the properties" and related equipment like fire hydrants within the advisory area, Ben Horenstein, director of Santa Rosa Water, said Thursday.

The cost of that solution, which Horenstein had previously estimated at up to \$20 million, has now more than doubled, and completion may take significantly longer than the year he initially hoped.

The development raises a host of questions about how quickly the devastated Fountaingrove neighborhood, which lost 1,420 homes in the Tubbs fire, may be able to recover, how the city can fund the needed repairs, and what it means for residents who still live there.

Before the fire, there were 350 homes in the advisory area, centered on the north and south sides of Fountaingrove Parkway near Fir Ridge Drive. Restrictions on water use for the 13 homes that remain standing have been in place since November. While lots are being cleared, few former residents of the advisory area have applied for city permits to rebuild.

Contamination of the water system has become one of the most pressing and confounding challenges facing the city as it seeks to recover from the October wildfires, the most destructive in U.S. history, with 5,100 homes lost in Sonoma County alone. Melted plastic storm drains that caused sinkholes and confusion over the acceptable level of arsenic in soil before cleared lots could be rebuilt have also been curveballs, but nothing like the contamination problem.

City officials say it has become increasingly clear over recent weeks that the benzene and other hydrocarbons detected in the water system in the advisory area originated when plastic components of the system melted during the fires and were somehow sucked into the water mains through a severe drop in water pressure.

Normally, positive water pressure pushes contaminants outward, acting as a protective barrier against broader contamination of the system, Horenstein said.

In this case, however, the sharp drop in water pressure that the Fountaingrove area suffered during the fires — something firefighters complained about as they battled the blaze — likely created a vacuum effect on the system.

Water pressure in the hillside neighborhood is provided by a combination of pumps that send the water uphill and pressure from the millions of gallons capable of being stored in seven holding tanks in the area.

But at the time of the fire, one of those tanks was empty because it was down for seismic retrofitting, said Jennifer Burke, the city's deputy director of water and engineering resources.

It's not clear how much having that tank offline contributed to the low water pressure, but it likely had some impact, Horenstein said. It also wasn't immediately clear how full the other tanks were at the time of the fire.

The combination of firefighters trying to save structures, residents turning on hoses in efforts to save their own homes, and water being released as homes were destroyed all created intense demands on the system, Burke said.

Complicating the issue is that the city lost the ability to monitor the pressure in the system. The equipment that monitors pressure and communicates data to decision makers went down in the fire, leaving water managers "blind" on the night of the fire, Horenstein said.

Officials believe the sharp drop in pressure created the conditions that allowed a combination of benzene, superheated air, ash and debris to enter the main water delivery pipes at some point during and after the fire. There, it sat for more than a month, adhering to and becoming absorbed by the plastic components in the system, and then leaching out over time, Horenstein said. Valves were closed to isolate the contamination to the advisory area.

"It's difficult, if not likely impossible, to get rid of it in any reasonable time frame other than by replacement," he said.

Water officials have been gradually coming to the conclusion that full replacement of the system in the advisory area might be necessary. Horenstein first raised that possibility with the City Council in December, when he first gave the \$20 million estimate.

Since then, however, the increasing number of test results showing benzene persisting in the mains in the advisory area have made the replacement need clearer. The complexity of the project has sent the projected costs skyward.

The latest \$43 million estimate is based on the deepening understanding of just how massive a project the replacement would be, especially if it were fast-tracked, Horenstein said.

The higher costs reflect the complexity of installing the new water lines in and around other utilities, and the need to phase the project to ensure no cross-contamination. The project would also need to take into account home rebuilding efforts while the line replacements are underway, and existing homeowners would need to have water service continued in some fashion, Horenstein said.

Doing all that in an expedited fashion — something the city would like to see given the time constraints on homeowners, whose insurance policies stop covering living expenses at two years — would likely require significant incentives for contractors, Horenstein said.

But the city's plan to pay for such a project took a hit recently when it learned the Federal Emergency Management Agency was unlikely to provide advance funding for it, Horenstein told the Board of Public Utilities last week.

Such advance payments are typically for emergency response measures, not long-term infrastructure repair. The city received some contradictory information on this point, initially believing it was entitled to 40 percent of the project's cost, or \$17.2 million. The surprise has caused the city to scramble to figure out how to pay for the project in the short term. It currently plans to draw down reserves and hope for reimbursement on the backside. Water officials referred to the surprise as a "glitch," something Board of Public Utilities Chairman Bill Arnone found an odd descriptor under the circumstances.

"Calling an unanticipated \$17.2 million loss of early funding a 'glitch' is a colossal understatement," Arnone said.

Veteran BPU member Dick Dowd said he felt city water staff were doing a "marvelous job" addressing the issue, and he noted that conservative fiscal policies of recent years have paid off.

"We have some reserves to absorb the shock of this fire disaster that our community experienced in October," Dowd said. "But if the FEMA money does not come forth to us, there probably will be the need for some significant rate increases."

To help the City Council and the public better understand the investigation status, repair plans and options, the city plans a rare joint meeting of the Board of Public Utilities and the City Council at 2 p.m. Tuesday.

You can reach Staff Writer Kevin McCallum at 707-521-5207 or kevin.mccallum@pressdemocrat.com. On Twitter @SRCityBeat.

Town divided, accusations fly over controversial Plaza monument



WATER AND FHYRE Activist Fhyre Phoenix could no longer be silent on the fountain controversy, weighing in on DHMO dangers. KLH | Minion

Ray Rumsey
Mad River Union

ARCATA, APRIL 1 – One of the Plaza’s most venerable fixtures, next to Sunflower, is the Temperance League Fountain on the square’s west side.

The 1912-vintage fountain is also one of the town’s most divisive landmarks, with advocates for removal doing rhetorical battle with fountain loyalists online and in public meetings.

“Get that thing off our Peace Plaza!” howled Polly Patchouli, a downtown reform activist. “It forces the public to bend over to drink, bowing down to the Humboldt Bay Municipal Water District and their liquid oppression. Who made them God?” She called it the “fuhrer fountain.”

The anti-fountain forces found favor up the hill, where Humboldt State University Chemistry Professor Egbert Z. D. Poindexter objected to the fountain on public safety grounds.

“Dihydrogen monoxide is one of the most potent solvents there is, and kills thousands every year,” he said. “Why would eco-conscious Arcata tolerate a fountain that spews this *chemical* right on its town square?”

The fountain has its defenders, though. Molly Mendacia remembered the fountain’s original purpose, and warned of consequences if it’s removed.

“Remember why the Temperance League installed it,” she said. “If there’s no water fountain, thirsty people will charge over to the bars and start chugging highballs. A parched throat is demon alcohol’s plaything.”

Activist Fhyre Phoenix got wind of the controversy, and joined in the “Flush the Fountain” movement. Sunday afternoon, he was positioned next to the fixture, trying to educate the public of the dangers of water.

“Enjoy a sip of slaughter sauce,” one side of his sign read. The other side bore just a symbol – that of the **DHMO Awareness** organization.

As with virtually everything else these days, the issue triggered bitter debates on social media.

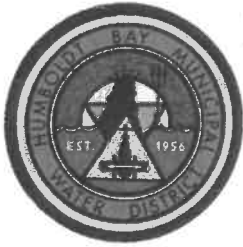
Advocates on both sides found the character and morals of those with the opposing view severely lacking and worthy of expatriation.

"You meddling minnies are always trying to wreck the Plaza – leave it alone, or leave!" grumped Arcata old-timer Gorn Glumber in a Facebook post. "Get a life!"

"Plug your geyser of patriarchal poison and get out of town, and take that fascist fountain with you," flamed Zelda Zealotrine. "Get a life!"

The City Council's creative solution was to assign staff to come up with a table listing the relative moral weight of pejorative terms commonly used in online arguments such as idiot, imbecile, libturd, fascist, snowflake and douchecanoe. Once that is determined, highest-scoring insulters will then be deputized to finally decide the matter.

CORRESPONDENCE



SECTION 61 PAGE NO. 1
HUMBOLDT BAY MUNICIPAL WATER DISTRICT

828 SEVENTH STREET, PO Box 95 • EUREKA, CALIFORNIA 95502-0095

OFFICE 707-443-5018 ESSEX 707-822-2918

FAX 707-443-5731 707-822-8245

EMAIL OFFICE@HBMWD.COM

Website: www.hbmwd.com

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MICHELLE FULLER, DIRECTOR

GENERAL MANAGER

JOHN FRIEDENBACH

March 26, 2018

National Marine Fisheries Service
1655 Heindon Road
Arcata, CA 95521
Attn: Justin Ly

Dear Mr. Ly,

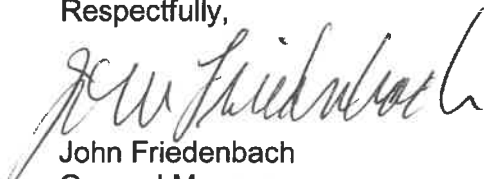
We have some great news to share with you. Our District was awarded a \$693,408.00 grant from the Wildlife Conservation Board on March 22, 2018 for our Instream Flow Dedication Project! As you may be aware, this has been a long process and we want to thank you for your ongoing support throughout.

Humboldt Bay Municipal Water District intends to dedicate a portion of its diversion water rights to instream flow to benefit fish and wildlife by creating an increase in habitat for salmonids and special status species in the Mad River. The project is located on the mainstem Mad River in the Mad River Watershed with releases coming from our R. W. Matthews Dam at our Ruth Reservoir, approximately 48 miles southeast of Eureka and 53 miles southwest of Redding.

This was our second grant application. Your letter of support was greatly appreciated and we believe instrumental in our success for the grant. We were able to show that not only do we believe the project is grant worthy but other key community agencies such as yours do as well.

Thank you for again for your support and we will keep you informed as the project progresses.

Respectfully,



John Friedenbach
General Manger

Letters also sent to:

- Jana Gannon Blue Lake Rancheria*
- Michael Green Six Rivers National Forest*
- Matt St. John NCRWQCB*
- Darren Mirau California Trout*
- Dave Leral Mad River Alliance*
- John Ford Hum. Co. Planning & Bldg*



HUMBOLDT BAY MUNICIPAL WATER DISTRICT SECTION ^{G2} DISTRICT NO. 1

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MICHELLE FULLER, DIRECTOR

GENERAL MANAGER

JOHN FRIEDENBACH

April 2, 2018

Dorie Lanni
Humboldt County Sheriff's Office of Emergency Services
826 4th Street
Eureka, CA 95501

Re: Letter of Commitment as a Participating Jurisdiction in the Humboldt County Multi-jurisdictional Local Hazard Mitigation Plan

Dear Humboldt County Office of Emergency Services,

As the Federal Emergency Management Agency's (FEMA) Local Hazard Mitigation Plan (LHMP) requirements under 44 CFR §201.6 identify criteria for multi-jurisdictional mitigation plans including the participation and collaboration of regional planning and mitigation partners, this letter of commitment is submitted to confirm Humboldt Bay Municipal Water District's participation in the Humboldt County Multi-jurisdictional LHMP update as a Planning Partner.

As a condition of participation, Humboldt Bay Municipal Water District agrees to meet the requirements for mitigation plans identified in 44 CFR §201.6, and to provide timely cooperation and participation to produce a FEMA-approved LHMP with the County of Humboldt.

Humboldt Bay Municipal Water District understands that it must engage in the following planning processes, as detailed in FEMA's Local Multi-Hazard Mitigation Planning Guidance dated March 1, 2013. Planning processes include, but are not limited to the following:

- Review of existing Humboldt County Multi-jurisdictional Local Hazard Mitigation Plan
- Identification of local hazards, risk assessment, and vulnerability analysis
- Participation in the formulation of mitigation goals and actions
- Participation in community engagement and public outreach in the development of the Plan update
- Timely response to requests for information by the coordinating agency and consultants, and adherence to established deadlines
- Formal adoption of the Multi-jurisdictional Local Hazard Mitigation Plan update by the Planning Partner jurisdiction's governing body
- Tracking and monthly submission of personnel hours spent on the hazard mitigation planning effort

Therefore, with a full understanding of the obligations incurred by participating in the FEMA hazard mitigation planning process as a named Planning Partner in a multi-jurisdictional plan, I, John Friedenbach, commit Humboldt Bay Municipal Water District to the Humboldt County Multi-jurisdictional Hazard Mitigation Planning effort.

Executed this 2nd day of April, 2018


Signature

Humboldt Bay Municipal Water District appoints the following personnel as representatives of the jurisdiction for the purposes of this planning process.

PRIMARY CONTACT

Name: John Friedenbach
Title, Department: General Manager
Phone: 707-443-5018
Email: friedenbach@hbmwd.com

ALTERNATE CONTACT

Name: Chris Harris
Title, Department: Business Manager
Phone: 707-443-5018
Email: harris@hbmwd.com

SECOND ALTERNATE

Name: Dale Davidsen
Title, Department: Superintendent
Phone: 707-822-2918
Email: supt@hbmwd.com



FEMA

Fact Sheet

Federal Insurance and Mitigation Administration

LOCAL HAZARD MITIGATION PLANNING

Hazard Mitigation Planning for Resilient Communities

Disasters can cause loss of life; damage buildings and infrastructure; and have devastating consequences for a community's economic, social, and environmental well-being. Hazard mitigation is the effort to reduce loss of life and property by lessening the impact of disasters. In other words, hazard mitigation keeps natural hazards from becoming natural disasters.

Hazard mitigation is best accomplished when based on a comprehensive, long-term plan developed before a disaster strikes. Mitigation planning is the process used by state, tribal, and local leaders to understand risks from natural hazards and develop long-term strategies that will reduce the impacts of future events on people, property, and the environment.

The Local Mitigation Planning Process

The mitigation plan is a community-driven, living document. The planning process itself is as important as the resulting plan because it encourages communities to integrate mitigation with day-to-day decision making regarding land use planning, floodplain management, site design, and other functions. Mitigation planning includes the following elements:

Public Involvement – Planning creates a way to solicit and consider input from diverse interests, and promotes discussion about creating a safer, more disaster-resilient community. Involving stakeholders is essential to building community-wide support for the plan. In addition to emergency managers, the planning process involves other government agencies, businesses, civic groups, environmental groups, and schools.

Risk Assessment – Mitigation plans identify the natural hazards and risks that can impact a community based on historical experience, estimate the potential frequency and magnitude of disasters, and assess potential losses to life and property. The risk assessment process provides a factual basis for the activities proposed in the mitigation strategy.

Mitigation Strategy – Based on public input, identified risks, and available capabilities, communities develop mitigation goals and objectives as part of a strategy for mitigating hazard-related losses. The strategy is a community's approach for implementing mitigation activities that are cost-effective, technically feasible, and environmentally sound as well as allowing strategic investment of limited resources.

Disaster Mitigation Act of 2000

The Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended by the Disaster Mitigation Act of 2000, is intended to "reduce the loss of life and property, human suffering, economic disruption, and disaster assistance costs resulting from natural disasters."

Under this legislation, state, tribal, and local governments must develop a hazard mitigation plan as a condition for receiving certain types of non-emergency disaster assistance through the Hazard Mitigation Assistance Programs. The regulatory requirements for local hazard mitigation plans can be found at Title 44 Code of Federal Regulations §201.6.

For more information about FEMA's Hazard Mitigation Assistance Grants, visit: www.fema.gov/hazard-mitigation-assistance.

Benefits of Hazard Mitigation

Mitigation is an investment in your community's future safety and sustainability. Mitigation planning helps you take action now, before a disaster, to reduce impacts when a disaster occurs. Hazard mitigation planning helps you think through how you choose to plan, design, and build your community and builds partnerships for risk reduction throughout the community. Consider the critical importance of mitigation to:

- Protect public safety and prevent loss of life and injury.
- Reduce harm to existing and future development.
- Maintain community continuity and strengthen the social connections that are essential for recovery.
- Prevent damage to your community's unique economic, cultural, and environmental assets.
- Minimize operational downtime and accelerate recovery of government and business after disasters.
- Reduce the costs of disaster response and recovery and the exposure to risk for first responders.
- Help accomplish other community objectives, such as capital improvements, infrastructure protection, open space preservation, and economic resiliency.

Having a hazard mitigation plan will increase awareness of hazards, risk, and vulnerabilities; identify actions for risk reduction; focus resources on the greatest risks; communicate priorities to state and federal officials; and increase overall awareness of hazards and risks.

Planning Guidance, Tools, and Resources

FEMA provides a variety of guidance, tools, and resources to help communities develop hazard mitigation plans. These resources and more can be found online at: www.fema.gov/hazard-mitigation-planning-resources.

- [Hazard mitigation planning laws, regulations, and policies](#) guide development of state, local, and tribal FEMA-approved hazard mitigation plans.
- The [Local Mitigation Planning Handbook](#) is the official guide for governments to develop, update, and implement local plans. The Handbook includes guidance, tools, and examples communities can use to develop their plans.
- [Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards](#) provides ideas for mitigation actions.
- Visit www.fema.gov/hazard-mitigation-planning-training for more information on available online and in-person mitigation planning training.

Mitigation Activities for Risk Reduction

Possible mitigation activities may include:



Adoption and enforcement of regulatory tools, including ordinances, regulations, and building codes, to guide and inform land use, development, and redevelopment decisions in areas affected by hazards.



Acquisition or elevation of flood-damaged homes or businesses retrofit public buildings, schools, and critical facilities to withstand extreme wind events or ground shaking from earthquakes.



Creating a buffer area by protecting natural resources, such as floodplains, wetlands, or sensitive habitats. Additional benefits to the community may include improved water quality and recreational opportunities.



Implement outreach programs to educate property owners and the public about risk and about mitigation measures to protect homes and businesses.

Mitigation Plan Implementation & Monitoring

History shows that hazard mitigation planning and the implementation of risk reduction activities can significantly reduce the physical, financial, and emotional losses caused by disasters. Putting the plan into action will be an ongoing process that may include initiating and completing mitigation projects and integrating mitigation strategies into other community plans and programs. Monitoring the plan's implementation helps to ensure it remains relevant as community priorities and development patterns change.

"FEMA's mission is to support our citizens and first responders to ensure that as a nation we work together to build, sustain, and improve our capability to prepare for, protect against, respond to, recover from, and mitigate all hazards."

CONTINUING BUSINESS

Resolution No. 2018-03**Resolution of the Humboldt Bay Municipal Water District Board of Directors****Approving the Application for Grant Funds from the Wildlife Conservation Board for the Mad River Stream Flow Enhancement Project**

WHEREAS, funds were made available to the Wildlife Conservation Board for the enhancement or restoration of fish and wildlife habitat and for the development of public access facilities for hunting, fishing or other wildlife-oriented recreational uses; and

WHEREAS, Humboldt Bay Municipal Water District intends to dedicate a portion of its diversion water rights to instream flow use that will benefit fish and wildlife by creating an increase in habitat for salmonids and special status species in the Mad River. The project is located on the mainstem Mad River in the Mad River Watershed with releases coming from Matthews Dam at Ruth Reservoir, approximately 48 miles southeast of Eureka and 53 miles southwest of Redding.

NOW THEREFORE, BE IT RESOLVED that the Humboldt Bay Municipal Water District hereby:

1. Approves the filing of an application for funding from the Wildlife Conservation Board; and
2. Certifies that said Applicant will comply with all federal, state and local environmental, public health, and other appropriate laws and regulations applicable to the project and will obtain or will ensure that other project partners obtain all appropriate permits applicable to the project; and
3. Further commits to the terms and conditions specified in the grant agreement; and
4. Appoints its General Manager and/or Business Manager as representatives of Humboldt Bay Municipal Water District to conduct negotiations, execute, submit and sign all documents including but not limited to applications, agreements, amendments, payment requests, and other documents which may be necessary for the completion of the project.

Passed, approved and adopted this 12th day of April, 2018 by the following votes:

Ayes:
Nays:
Absent:

Attest:

Sheri Woo, President

J. Bruce Rupp, Secretary/Treasurer

From: John Friedenbach
Sent: Friday, March 09, 2018 10:01 AM
To: 'Cary, Brian@Wildlife'
Cc: Chris Harris (Harris@hbmwd.com); Samantha Ryan
Subject: RE: Mad River Enhancement
Attachments: STD 204 HBMWD.pdf

Tracking:	Recipient	Read
	'Cary, Brian@Wildlife'	
	Chris Harris (Harris@hbmwd.com)	
	Samantha Ryan	Read: 3/9/2018 10:03 AM

Hi Brian,

Attached is the completed and signed form STD 204.

Our next Board meeting is Thursday, April 12th.
I will include the resolution on that agenda for adoption.
We can forward you a completed resolution after that date.

Let me know if you need any additional information.

Regards,

John Friedenbach
General Manager
Humboldt Bay Municipal Water District
Work: (707) 443-5018
Cell: (707) 362-7509
Fax: (707) 443-5731



From: Cary, Brian@Wildlife [mailto:Brian.Cary@wildlife.ca.gov]
Sent: Friday, March 02, 2018 11:42 AM
To: John Friedenbach
Subject: Mad River Enhancement

Greetings,
Concerning your Stream Flow Enhancement Program Proposal submitted in August 2017, I am happy to share with you the fact that it will be recommended for Board approval at the WCB Board Meetings on March 22, 2018. During this



Notice of Meeting
WILDLIFE CONSERVATION BOARD
Stream Flow Enhancement Program
March 22, 2018, 1:00 p.m.
Natural Resources Building, First Floor Auditorium
1416 9th Street
Sacramento, California 95814
Final Agenda

Item Number	Page
1. Roll Call	1
2. Introduction- Streamflow Enhancement Program (SFEP)	2
3. Table 1: Fund Allocation of Recommended SFEP Projects FY 2017/18	3
4. Proposed Consent Calendar (Items 4-14)	4
*5. Approval of Minutes	4

March 22, 2018, Streamflow Enhancement Meeting

- *14. San Luis Obispo Creek Flow Enhancement 26**
San Luis Obispo County
\$250,062
- To consider the allocation for a grant to Central Coast Salmon Enhancement for a cooperative project with California Conservation Corps, National Oceanographic and Atmospheric Administration, Water Systems Consulting, Hicks Law, and the City of San Luis Obispo to provide engineering design and permitting for a large-scale flow enhancement project that, once implemented, will enhance instream flow in San Luis Obispo Creek during the dry season to preserve prime steelhead rearing habitat. The Fox Hollow Reservoir is along San Luis Obispo Creek immediately adjacent to the City of San Luis Obispo.
- 15. Russ Creek Stream Flow Enhancement 29**
Humboldt County
\$4,874,148
- To consider the allocation for a grant to The Wildlands Conservancy (TWC) for a project to enhance stream flow on Russ Creek by reestablishing channel alignment to provide continuous summer base flows suitable for fish passage. The Project is located on the southern portion of the Eel River Estuary Preserve, located approximately four miles west of Ferndale.
- 16. McKee Creek Conservation and Stream Flow Enhancement 32**
Humboldt County
\$1,159,377
- To consider the allocation for a grant to the Sanctuary Forest, Inc. for a cooperative project with the Weeden Foundation to conserve approximately 300 acres of forestland, including 1.4 linear miles of anadromous stream, and install 29 instream structures to mimic natural geomorphic processes to enhance instream habitat within McKee Creek. The project is located near Whitethorn at the headwaters of McKee Creek approximately 55 miles south of the city of Eureka.
- 17. Mad River Enhancement 35**
Humboldt and Trinity County
\$693,408
- To consider the allocation for a grant to the Humboldt Bay Municipal Water District (HBMWD) for the purpose of dedicating a portion of HBMWD's diversion water rights to instream flow use that will benefit fish and wildlife by creating an increase in habitat for salmonids and special status species in the Mad River. The project is located on the mainstem Mad River in the Mad River Watershed with releases coming from Matthews Dam at Ruth Reservoir, approximately 48 miles southeast of Eureka and 53 miles southwest of Redding.

**17. Mad River Enhancement
Humboldt and Trinity County
\$693,408**

This proposal is to consider the allocation for a grant to the Humboldt Bay Municipal Water District (HBMWD) for the purpose of dedicating a portion of HBMWD's diversion water rights to instream flow use that will benefit fish and wildlife by creating an increase in habitat for salmonids and special status species in the Mad River.

LOCATION

The project is located along the mainstem Mad River in the Mad River Watershed. Flow enhancement water releases will occur at Matthews Dam from Ruth Reservoir upstream of the project reach. Downstream of Matthews Dam, the Mad River travels approximately 84 miles to the Pacific Ocean, flowing through both Trinity and Humboldt Counties. Matthews Dam is located approximately 48 miles south east of Eureka and 53 miles south west of Redding.

PROJECT DESCRIPTION

Upon acquiring necessary data on state and federally listed species, water quality and availability and through the review of reservoir operations, this proposed project will ensure enhanced flow of 39 cubic feet per second (cfs), expected to keep the reaches in the upper watershed accessible to fish and providing an estimated 450 acres of increased habitat. Release of the in-stream dedication is to occur in low flow months such as summer and fall, the time of year when it is most beneficial to aquatic species.

Problem:

Several flow-related limiting factors occur in the Mad River system. Overdraft of river and tributary flow in summer by landowners and cannabis growers is ongoing. Fish migration barriers exist when flows at riffles become too shallow to allow passage. Low flows reduce available habitat and water quality for salmonids and other aquatic species especially during the summer. The Mad River is listed as impaired for sediment, turbidity, and temperature under Section 303(d) of the Clean Water Act.

Solution:

The project will gather necessary data on species, water quality, reservoir operations, and revision of reservoir operations in order to process a petition of change under Water Code Section 1707 through the State Water Resources Control Board (SWRCB). If approved, the petition will authorize a change in purpose of use to include instream uses for fish and wildlife enhancement. This proposed project will ensure enhanced flow of up to 39 cubic feet per second (cfs) expected to keep the reaches in the upper watershed accessible to fish and providing access to an estimated additional 450 acres of fish habitat.

PROJECT COST

Funding	
WCB	693,408
Other	67,833
<i>Total</i>	<i>\$761,241</i>

Project costs will be for: project management, permit fees, operation, equipment, and subcontractor operating expenses. Other funding sources include the Humboldt Bay Municipal Water District (applicant), H.T. Harvey and Associates, Mad River Alliance, and Stillwater Sciences.

CEQA

The project is categorically exempt from the California Environmental Quality Act (CEQA) pursuant to the State CEQA Guidelines California Code of Regulations, Title 14, Chapter 4, Section 15304, as a minor alteration in the condition of land, water, or vegetation which does not involve removal of healthy, mature, scenic trees.

STAFF RECOMMENDATION

Staff recommends that the Board approve this project as proposed; allocate \$693,408 from the Water Quality, Supply and Infrastructure Improvement Fund of 2014 (Proposition 1), Water Code Section 79733; authorize staff to enter into appropriate agreements necessary to accomplish this project; and authorize staff and the California Department of Fish and Wildlife to proceed substantially as planned.

Humboldt Bay water district gets \$693K grant

By The Times-Standard

Wednesday, March 28, 2018

Press release from the Humboldt Bay Municipal Water District:

The Humboldt Bay Municipal Water District has been awarded a \$693,408 Wildlife Conservation Board Grant, which will be used to investigate dedicating a portion of HBMWD's water rights to instream flow for beneficial use. This stream flow dedication is intended to benefit fish and wildlife by increasing habitat for salmonids and special status species in the Mad River.

This award brings State monies into our County, and we would like to thank the following entities who committed in-kind services and support: Blue Lake Rancheria, California Trout, Humboldt County Planning and Building Department, Mad River Alliance, National Marine Fisheries Service, North Coast Regional Water Quality Control Board, and Six Rivers National Forest. Local scientists and engineers from GHD, HT Harvey, and Stillwater Sciences assisted in grant preparation.

Funds will be used for scientific and engineering studies and permits that support a "Petition for Change" to the State Water Resources Control Board, Division of Water Rights. Under California's "use it or lose it" water laws, HBMWD could possibly lose water rights due to non-use in 2029. This project will support codifying HBMWD's permits and water rights so that up to 25 million gallons per day (MGD) can be released from the R.W. Matthews Dam at flows and times that benefit salmonids and other special status species in the Mad River. Releases would be from the District's Ruth Reservoir, which is located approximately 48 miles southeast of Eureka.

Releasing a maximum of 25 MGD is approximately 30% of the HBMWD's current water rights. During the height of the 2016 drought, unlike most other Californians, HBMWD customers enjoyed a 3-year storage "buffer" even without very stringent water conservation measures.

Dedicating flow for environmental benefit is one of three water use options developed with community input by the HBMWD's Water Resource Planning Advisory Committee. The other two options are local sales and transport outside our watershed, neither of which have yet become economically viable.

The Water Resource Planning process began after the District's two large industrial customers, the pulp mills on the Samoa Peninsula, closed. The mills had provided 60% of the District's revenue and their closing decreased revenues to the District, decreased District water use, and thus affected water rights ("use it or lose it"). Three water use goals were identified: protection of HBMWD's water rights, fiscal sustainability, and environmental sustainability. Dedicating a portion of our water rights to instream flow in the Mad River watershed also supports part of the District's mission: "... to protect the environment of the Mad River watershed to preserve water rights, water supply and water quality interests of the District."

URL: <http://www.times-standard.com/general-news/20180328/humboldt-bay-water-district-gets-693k-grant>

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By Paul Rogers, Bay Area News Group, 3/28/18
Park officials are putting the final touches on a restoration plan for the base of Bridalveil Fall, the first waterfall

California fights wildfires aggressively—but prevention takes a back seat

By Julie Cart, CalMatters, 3/28/18
Dave Kinatader has a keen eye for trees. But when Kinatader, a fire ecologist in the Plumas National Forest, surveys a hillside lush with pines, he doesn't see abundance or the glory of nature's bounty. He sees a disaster-in-waiting.

Editorial: Good news, bad news in California battle against wildfires

By Mercury News Editorial Board, 3/29/18
U.S. Forest Service needs consistent fire prevention funding, but Washington can't quite get it right.

Wildfire burns on island off coast of Southern California

By Associated Press, 3/28/18
Firefighters battled a wildfire Wednesday in chaparral and grasslands on Santa Cruz Island off the coast of Southern California, officials said.

Humboldt Bay water district gets \$693K grant

By Times-Standard, 3/28/18
The Humboldt Bay Municipal Water District has been awarded a \$693,408 Wildlife Conservation Board Grant, which will be used to investigate dedicating a portion of HBMWD's water rights to instream flow for beneficial use. This stream flow dedication is intended to benefit fish and wildlife by increasing habitat for salmonids and special status species in the Mad River.

WILDLIFE CONSERVATION BOARD GRANTS EMERALD COUNTIES MILLIONS OF DOLLARS FOR STREAM FLOW PROJECTS

March 23, 2018 [Kym Kemp](#) 4 comments



The Wildlands Conservancy won \$4.8 million grant to improve stream flow on Russ Creek near Ferndale. [Image from [Mapcarta](#)]

Press release from the California Department of Fish and Wildlife:

At a March 22 meeting, the Wildlife Conservation Board (WCB) approved approximately \$33.1 million in grants for 22 projects to enhance stream flows to benefit fish and wildlife habitat throughout California. The Legislature appropriated funding for these projects as authorized by the Water Quality, Supply and Infrastructure Improvement Act of 2014 (Proposition 1). A total of \$200 million was allocated to the WCB for projects that enhance stream flow.

A total of \$38.4 million—including \$5 million designated for scoping and scientific projects—was allocated to the WCB for expenditure in Fiscal Year 2017/18 for the California Stream Flow Enhancement Program. Projects were chosen through a competitive grant process, judged by the WCB, California Department of Fish and Wildlife (CDFW) and the State Water Resources Control Board. Guided by the California Water Action Plan,

funding is focused on projects that will lead to direct and measurable enhancements to the amount, timing and/or quality of water for anadromous fish; special status, threatened, endangered or at-risk species; or to provide resilience to climate change.

Funded projects include:

- A \$4.8 million grant to The Wildlands Conservancy for a project to enhance stream flow on Russ Creek by reestablishing channel alignment to provide continuous summer base flows suitable for fish passage. The project is located on the southern portion of the Eel River Estuary Preserve in Humboldt County, approximately four miles west of Ferndale.
- A \$693,408 grant to the Humboldt Bay Municipal Water District for the purpose of dedicating a portion of the District's diversion water rights to instream flow use that will benefit fish and wildlife by increasing habitat for salmonids and special status species in the Mad River. The project is located on the main-stem Mad River in the Mad River Watershed with releases coming from Matthews Dam at Ruth Reservoir, approximately 48 miles southeast of Eureka and 53 miles southwest of Redding.
- A \$726,374 grant to Mendocino County Resource Conservation District for a cooperative project with Trout Unlimited, The Nature Conservancy and the National Fish and Wildlife Foundation to reduce summer diversions and improve dry season stream flows for the benefit of Coho salmon and steelhead trout. The Navarro River watershed is located approximately 20 miles south of Fort Bragg.
- A \$5 million grant to the Sutter Butte Flood Control Agency for a cooperative project with the Department of Water Resources and CDFW, to improve roughly 7,500 linear feet of existing channels to connect isolated ponds. This will provide fish refuge and eliminate potential stranding. This project's design was funded by the Stream Flow Enhancement Program in 2016. The project site is within the Sacramento River watershed and is less than one mile southwest of the town of Oroville, on the east side of the Feather River.
- \$609,970 grant to the University of California Regents for a cooperative project with the University of Nevada, Reno and the Desert Research Institute, to expand monitoring, scientific studies and modeling in the Tahoe-Truckee Basin. The results will guide watershed-scale forest thinning strategies that enhance stream flow within an area that provides critical habitat for threatened species. The project is located in

the central Sierra Nevada mountain range, primarily on National Forest lands in the Lake Tahoe Basin and Tahoe National Forest.

- A \$851,806 grant to the Sonoma Resource Conservation District for a cooperative project with the Coast Ridge Community Forest and 29 landowners, to install rainwater harvesting tanks and enter into agreements to refrain from diverting stream flow during dry seasons. The project area consists of 29 properties within the coastal Gualala River, Russian Gulch and Austin Creek watersheds, which discharge to the Pacific Ocean approximately 40 miles northwest of Santa Rosa.
- A \$5.3 million grant to the Alameda County Water District for a cooperative project with the Alameda County Flood Control and Water Conservation District, California Natural Resources Agency, State Coastal Conservancy and the U.S. Bureau of Reclamation to modify flow releases in Alameda Creek and construct two concrete fish ladders around existing fish passage barriers. This will provide salmonids access to high value habitat upstream of the project location, approximately 17 miles north of San Jose and 22 miles southeast of Oakland.
- A \$3.9 million grant to The Nature Conservancy for a cooperative project with U.C. Santa Barbara and the Santa Clara River Watershed Conservancy to remove approximately 250 acres of the invasive giant reed (*Arundo donax*), which will save approximately 2,000 acre-feet of water annually for the Santa Clara River. The project is located in unincorporated Ventura County approximately two miles east of the city of Santa Paula and three miles west of the city of Fillmore, along the Santa Clara River.

Details about the [California Stream Flow Enhancement Program](#) are available on the WCB website.



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
West Coast Region
1655 Heindon Road
Arcata, California 95521-4573

MAR 19 2018

In response refer to:
10012WCR2018AR00017

Humboldt County Board of Supervisors
825 Fifth Street
Eureka, CA 95501

Dear Supervisors:

I'm writing to provide comments from NOAA's National Marine Fisheries Service (NMFS) on the proposed Mercer Fraser MCMP, LLC, Zone Reclassification and Special Permit for a cannabis extraction facility in the Glendale Drive area of the Mad River. In particular, the California Environmental Quality Act (CEQA) Addendum (dated December 2017) to the Program and Supplemental Environmental Impact Reports (PEIR, SEIR) on Gravel Extraction on the Lower Mad River does not analyze the potential impacts associated with a cannabis extraction and manufacturing facility at the gravel processing site, nor do the gravel mining EIRs. In addition to the lack of CEQA analysis, we are also concerned with: 1) the location of the proposed facility within the 100-year floodplain that is within designated critical habitat for Endangered Species Act (ESA) listed coho salmon, Chinook salmon, steelhead and Pacific eulachon, 2) potential effects on ESA listed salmon, steelhead and Pacific eulachon, and 3) the proposed zoning change of the parcel to Heavy Industrial.

As described in the January 11, 2017, staff report from the Planning and Building Department to the Humboldt County Planning Commission (staff report) for the MCMP, LLC, Zone Reclassification and Special Permit, the gravel extraction PEIR and SEIR analyze the effects of gravel removal, and the associated activity of aggregate material being temporarily stockpiled and processed on site; processing operations involve crushing, sorting and storage of the rock. The staff report states that the new facility has fewer and less substantial impacts than the existing gravel extraction and processing use and that these changes are minor in nature and do not require additional mitigation measures relative to the original PEIR (1994) or the more recent SEIR (2014).

The cannabis facility will use volatile and nonvolatile solvents that were not analyzed for potential impacts in the gravel extraction PEIR or SEIR. In addition, the cannabis extraction proposal includes 24-hour operation of the facility and deliveries around the clock during the peak season. In contrast, the PEIR states that trucking operations associated with gravel mining be contained to the hours of 9:00 am to 5:00 pm, Monday through Friday. The gravel mining EIRs focused on the physical effects of removing gravel from the river (e.g., changes in channel bed elevation and river planform). Gravel mining mitigation measures described in the PEIR and the SEIR include leaving a head of bar buffer as an unmined portion of a gravel bar to protect river form, and having a team of experts recommend annual mining plans to prevent over-extraction and bed degradation.



The staff report describes mitigation measures for the cannabis facility, such as the closed loop system for solvents and limits on the amount of chemicals stored on site that do not pertain to gravel mining or processing, which further indicates that the two types of actions are not similar. These additional mitigation measures required for cannabis extraction and manufacturing are not described in the gravel mining PEIR or SEIR. Since there is essentially no analysis describing the potential for impacts from the cannabis facility, it is difficult to discern how much the proposed mitigations reduce the risk of chemical spills into the Mad River or its riparian habitat, or what the impacts would be on water quality and listed salmon, steelhead and Pacific eulachon if a chemical spill did occur.

In addition, we are concerned that the facility is proposed for construction within the 100-year floodplain of the Mad River. As described in the California Department of Fish and Wildlife (CDFW) comment letter dated February 28, 2018, floodplains are important parts of riverine ecosystems and provide habitat and functions critical to federally and State listed salmon and steelhead survival and recovery. In their role as the State Trustee and Responsible Agency for CEQA for issues pertaining to wildlife and fisheries, CDFW has recommended denial of the special permit for the facility due to the location within the 100-year floodplain. The 100-year floodplain provides areas for channel migration and habitat creation that are critical for salmon recovery as well as unique attributes of designated critical habitat such as slow water velocity refuge, and riparian vegetation for shade, cover and food.


The staff report also describes that the proposed facility would be elevated two feet above the 100-year flood elevation. However, flood recurrence intervals are approximations of risk, and elevating the proposed facility by two feet may not be adequate to ensure protection from 100-year flood waters given the imprecision of the recurrence interval estimate and climate change. We updated the flood frequency estimates for the Mad River at Arcata and the 100-year peak flow estimate is 81,870 cubic feet per second (cfs), with 90 percent confidence intervals of 68,490 cfs and 102,600 cfs, respectively. The large range of the confidence interval indicates that requiring a 2-foot elevation above the 100-year flood level may not be protective enough, especially when considering climate change.

Also, we are concerned with the proposed zoning change of the property from Agricultural Grazing to Heavy Industrial. While we understand that the most recent Humboldt County General Plan designated this parcel as Industrial Resource Related, and that gravel mining and processing is currently found within the 100-year floodplain, we do not support the zoning change to Heavy Industrial for this or other parcels along the floodplain of the Mad River due to the general incompatibility of heavy industry with a 100-year floodplain. Many of the stated uses of Heavy Industrial zoned land are incompatible with designated critical habitat for salmon, steelhead and Pacific eulachon, in particular hazardous materials and manufacturing. We suggest using a zoning designation that acknowledges the gravel mining uses, but also acknowledges the important habitat value of the 100-year floodplain for listed fish. In addition, we are concerned about the cumulative effects of the zoning change and additional heavy industry located within the 100-year floodplain of the lower Mad River.

Since the proposed facility has the potential to impact federally and State listed fish species and their habitat in ways that are different than gravel mining and processing, requires development and use of hazardous materials within the 100-year floodplain, and requires a zoning change to Heavy Industrial which we see as incompatible with habitat for salmon, steelhead and Pacific eulachon, we recommend the Board of Supervisors reconsider the Planning Commission's approval of the special permit and not allow for the zoning change to Heavy Industrial.

If you would like to discuss our comments or recommendations, please contact Justin Ly at 707-825-5154, or by email at Justin.Ly@noaa.gov.

Sincerely,

for 
Lisa Van Atta,
Assistant Regional Administrator
California Coastal Office

cc: Kalyn Bocast, CDFW, Eureka, CA
John Friedenbach, HBMWD, Eureka, CA

HUMBOLDT BAY MUNICIPAL WATER DISTRICT

To: Board of Directors

From: John Friedenbach

Date: April 6, 2018

Subject: Proposed Lazzar Subdivision over District's easement

.....

Background

Attached is a portion of the request for comments from the City of Arcata Community Development Department concerning Assessor's Parcel number 507-331-066. The proposed development is over and near our main transmission lines for the industrial and domestic systems (two 42 inch lines and one 27 inch line). There is also a valve access vault on the south side of the parcel. This property was also the subject of a proposed development in 2006 (Paik-Nicely / 27th Street Alliance, LLC) During 2006 and 2007 the District had extensive negotiations with the 27th Street Alliance to define a specific easement with setbacks in exchange for giving up our original floating easement and associated property rights. Unfortunately, that development fell through and our agreement was not recorded on the property.

The property has subsequently been purchased by several individuals. The first was Garret and Caren Coonrod. The District had various conversations with the Coonrod's during 2014, '15, and '16. Mr. Philip Lazzar began consulting with Mr. Coonrod on the property and ultimately purchased the property from Coonrod. The District had various conversations with Mr. Lazzar during 2016 and '17. Those discussions ended abruptly by Mr. Lazzar when the District communicated that our expenses related to defining our easement rights and negotiating a modification to those rights would need to be borne by Mr. Lazzar to avoid running a foul with the "gift of public funds doctrine".

Mr. Lazzar has proceeded with his proposed development without resolution of our easement rights conflicting with his proposed development plans over and adjacent to our existing pipelines and infrastructure on the property.

Discussion

On March 23, 2018, the District received an agency referral from the City of Arcata Community Development Department. A portion of which is attached for your reference. The development documents contain references to the documents and CEQA process undertaken during the 27th Street Alliance proposed development which included converting our floating easement to a 45 foot easement over our pipes with an additional 5 foot buffer zone on either side of the pipeline easement upon which there shall be no fencing, structures, residential construction, nor planting of plants with invasive root systems. The District could utilize the buffer zone at any time, in any manner it deems reasonably necessary, with no liability for obstruction or damage. The currently proposed development simply show a 30 foot pipeline easement. There is no allowance made for construction equipment access to the pipelines within the 30 feet, nor any construction encroachment restrictions outside the 30 feet.

The District's negotiations regarding possible changes to our easement rights have not consummated with Mr. Lazzar. He has chosen to proceed with his proposed development without the agreement of the District as to the effects of our easement rights on the property. Therefore, staff recommends that the District oppose the proposed project until such time as the property owner negotiates acceptable modifications to our existing floating easement rights.



Community Development Department
736 F Street, Arcata CA 95521
www.cityofarcata.org

Date Sent: 3/23/2018

REQUEST FOR COMMENTS by April 16, 2018

Project Referred to the following Departments or Agencies:

- | | |
|--|--|
| <input type="checkbox"/> Arcata Fire Protection District | <input type="checkbox"/> Humboldt Bay Municipal Water District |
| <input type="checkbox"/> Arcata Garbage Company | <input type="checkbox"/> Pacific Gas & Electric |
| <input type="checkbox"/> AT&T California | <input type="checkbox"/> Pacific Union Elementary School District |
| <input type="checkbox"/> Bear River Band of Rohnerville Rancheria | <input type="checkbox"/> Parks and Recreation Department, City of Arcata |
| <input type="checkbox"/> Blue Lake Rancheria | <input type="checkbox"/> Police Department, City of Arcata |
| <input type="checkbox"/> CA Department of Fish and Wildlife,
Environmental Specialist | <input type="checkbox"/> Engineering / Transportation DeptCity of Arcata |
| <input type="checkbox"/> California Coastal Commission | <input type="checkbox"/> Suddenlink Communications |
| <input type="checkbox"/> City of Arcata Building Official | <input type="checkbox"/> U.S. Post Office |
| <input type="checkbox"/> Environmental Services Department, City
of Arcata | <input type="checkbox"/> Wiyot Tribe, Table Bluff Reservation |

NOTE: Full attachment package is included - see "Attachments" below

Planner: Mateer, Joe

Subject: Lazzar Final Map Subdivision, Planned Development Permit and Coastal Development Permit

Project Name: Lazzar Subdivision

File Number: 178-051-SUB-PDP-CDP

Parcel Number 507-331-066

Property Address: Vacant Land - No Address Given. Project located about 200 ft west of 27th & Alliance

Project Description

The project consists of a Final Map Subdivision, Coastal Development Permit, and Planned Development Permit to create ten (10) residential parcels ranging in size from 4,844 square feet (sq ft) to 6,458 sq ft. The subject parcel was associated with previous residential subdivision approvals (Alliance Meadow – File # 067-053), however, the subdivision improvements and final map were never vested. A portion of the Alliance Meadow project were subsequently subdivided (Coonrod – File # 145-068).

Assessor's Parcel Number (APN) 507-331-066 is about 68,748 sq ft in size. The subject parcel is currently vacant except for two sheds proposed for removal. In addition three Humboldt Bay Municipal Water District water lines and concrete vault are located on the subject parcel.

Proposed access to the residential parcels is from a 20 – 40 foot wide T - shaped access road from 27th Street. The access road is located about 200 feet west of the Alliance Road and 27th Street intersection. The property is relatively flat with no visible break in slope.

The Coastal Residential Low Density (C-R-L) zoning district allows a primary and accessory dwelling unit on each resultant parcels. A Planned Development Combining Zone is an overlay zoning district on the base C-R-L zoning district, thus a Planned Development Permit and Coastal Development Permit are required. The resulting parcels will be served by City of Arcata water and wastewater utilities. The project is located in the Coastal Zone – City of Arcata permit jurisdiction.

Your comments are requested by April 16, 2018, so they can be included in our analysis and staff report. Although a written response is preferred, if we do not hear from you by this date, we will assume that the project does conform to your requirements. Please direct your response toward both the land use and environmental implications of the project, as well as the development conditions or requirements that should be imposed. If you have any questions concerning this project, please call Joe Mateer at (707) 825-2139.

Please return this sheet with your comments. Comments may be faxed to 825-2029 or emailed to Joe Mateer at jmateer@cityofarcata.org

ATTACHMENTS:

Project Information Sheet

GIS 2018 Property Report

Tentative Final Map

Preliminary Title Report / Grant Deed

Geotechnical Report

Stormwater Information Sheet

Previously Adopted Mitigated Negative Declaration (Alliance Meadow)

PLEASE USE THE AREA BELOW FOR YOUR COMMENTS (or attach separate sheet)

- Recommend Approval
- Recommend Conditional Approval with the following Recommended Conditions of Approval (or attach Conditions on a separate sheet):

- Do Not Recommend Approval - Based on the following (or attach comments on separate sheet):

Signature

Date

PROJECT INFORMATION SHEET

Project Description: Final Map Subdivision to create ten (10) residential parcels from a 67,602+/- square foot vacant parcel. See page 1 above for further description.

Application Type: Subdivision (A) Minor (SUB); Coastal Development Permit(CDP)

Location Information: Vacant Parcel (except for small sheds) - Currently no address assigned. Access road is about 200 feet west of Alliance Rd and 27th St intersection.

File Number: 178-051-SUB-CDP-PDP

Zoning: Coastal Residential Low Density with Planned Development Combining Zone

Coastal Status: Located in the Coastal Zone; City permit jurisdiction; Within Mapped Categorical Exclusion Area E-88-3.

Assessor's Parcel Number 507-331-066

Environmental: An Initial Study and Notice of Determination for a Mitigated Negative Declaration was previously adopted. If no new impacts to the environment are identified during the review process, the previously adopted environmental review may be re-adopted according to the California Environmental Quality Act Guidelines.

Special Considerations

Coastal zone

Matthew's Dam flood plain

Moderate Liquefaction

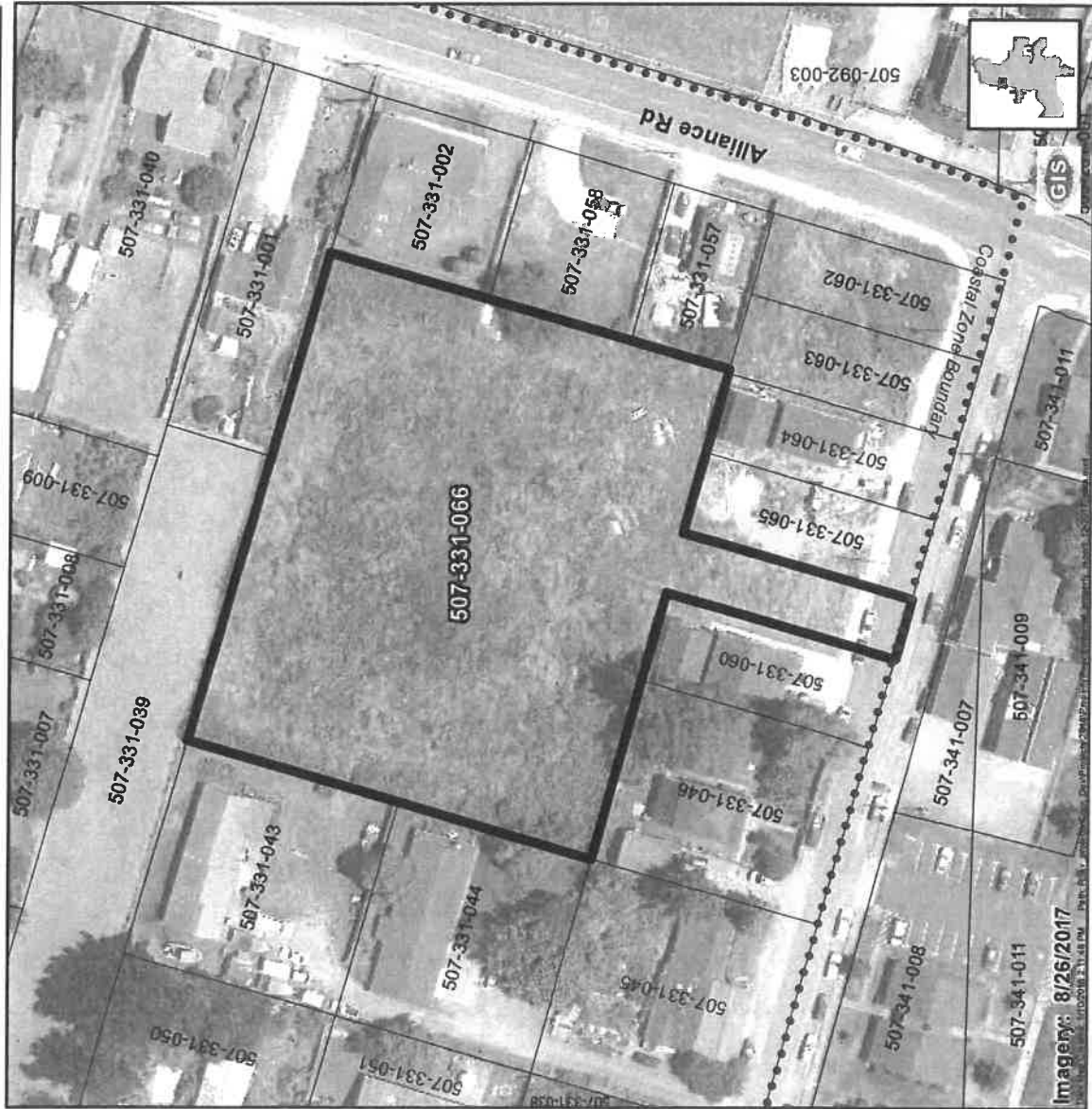
Portion within 55dB Noise Contour

HBMWD Water Line Easement

liquefaction: Moderate Liquefaction

Property Report - Assessor's Parcel Number: 507-331-066

City of Arcata Community Development Department
 736 F Street, Arcata, Ca. 95521
 (707) 822-5955



Legend:
 ● Coastal Zone Boundary
 ■ APN 507-331-066
 □ Parcel
 — Creek



This map is for informational purposes only. The City of Arcata, including any employees and sub-contractors, makes no warranty, expressed or implied, as to the accuracy or completeness of the data shown on this map. The City of Arcata, including any employees and sub-contractors, disclaims liability for any and all damages which may arise due to errors in the map and the user's reliance thereon.

Parcel attribute descriptions: https://gis01.cityofarcata.org/data/property_report/Property_report_metadata8-7-2017.pdf

Humboldt County Assessor Details

Parcel information date: 12/6/2017

Owner Name: Lazzar Phillip M & Deborah J & Lazzar Phillip M
 Mailing Address: 1871 Golf Course Rd, Bayside CA, 95524
 Site Address/City/Zip: ARCATA, 95521

For parcel owner information please call:
 Humboldt County Assessor
 625 5th Street, Eureka, Ca 95501
 (707) 445-7663

Land Value: \$129,921.00

Improvement Value: \$0.00

Other Value: \$0.00

Recorded Document: 2017R 02194

Assessor Parcel Map Link: <http://co.humboldt.ca.us/assessor/maps/507-33.pdf>

Use Code: 10

Tax Rate Area: 1028

Census Block: 200 Census Tract: 11.01

City of Arcata Property Details

Property Details

Latitude/Longitude: 40.88744 -124.0894

Section/Township/Range: SECTION 20 T6N, R1E

Parcel Size in Sq Ft (GIS Computed): 67,602.8

Parcel Size in Acres (GIS Computed): 1.6

Google Map Link:

<http://maps.google.com/maps?ll=40.88744&sp=1&hl=en&gl=us&code=4q--124.0894,40.88744&ie=UTF8&hl=en&z=16&llwo=addr>

Sewer Lateral Certificate(as of 1/3/2018): N

Zoning

Inland - Arcata Land Use Code (LUC): N/A

Coastal - Arcata Coastal Land Use & Development Guide (CLU DG): Residential - Low Density Planned Development

General Plan Land Use

Inland - Arcata General Plan: N/A

Coastal - Arcata General Plan: Residential - Low Density

Special Resources/Hazards/Constraints Areas

Creamery District (:CD) Combining Zone: Out

Historical Landmark (:HL) Combining Zone: None

Homeless for Housing (:HH) Combining Zone: None

MMIZ (:MMIZ) Combining Zone: Out

Neighborhood Conservation Area (:NCA): Out

Planned Development (:PD) Combining Zone: Yes

Plaza Area (:PA) Combining Zone: No

Special Consideration (:SC) Combining Zone: No

Wetland/Stream (:WP/:SP) Combining Zone: None

Alquist/Prilo Fault Zone: Out

Coastal Zone Boundary: In

Categorical Exclusion Area: In

Creek Zone(Within 25' of creek): No

Coastal Jurisdiction: City Permit Jurisdiction

FEMA Flood Zone (2017):

Hillside Development: None

Liquefaction: Moderate Liquefaction

Matthews Dam Failure: In

Noise Contour: Yes

Redevelopment Area: Out

Urban Services Boundary: In

USFWS Wetlands: No

Within 50' of Fault Zone: Out

Project Description

Lazzar Final Map Subdivision, Coastal Development Permit, and Planned Development Permit – File Number 178-051-SUB, CDP, PDP; Assessor’s Parcel Number 507-331-066

The project consists of a Final Map Subdivision, Coastal Development Permit, and Planned Development Permit to create ten (10) residential parcels ranging in size from 4,844 square feet (sq ft) to 6,458 sq ft. The subject parcel was associated with previous residential subdivision approvals (Alliance Meadow – File # 067-053), however, the subdivision improvements and final map were never vested. A portion of the Alliance Meadow project were subsequently subdivided (Coonrod – File # 145-068).

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LAZZAR SUBDIVISION
 APN 507-31-066
 27TH STREET
 ARCATA, CA 95521
 APN 507-31-066

DEVELOPMENT PLAN
 LOW IMPACT

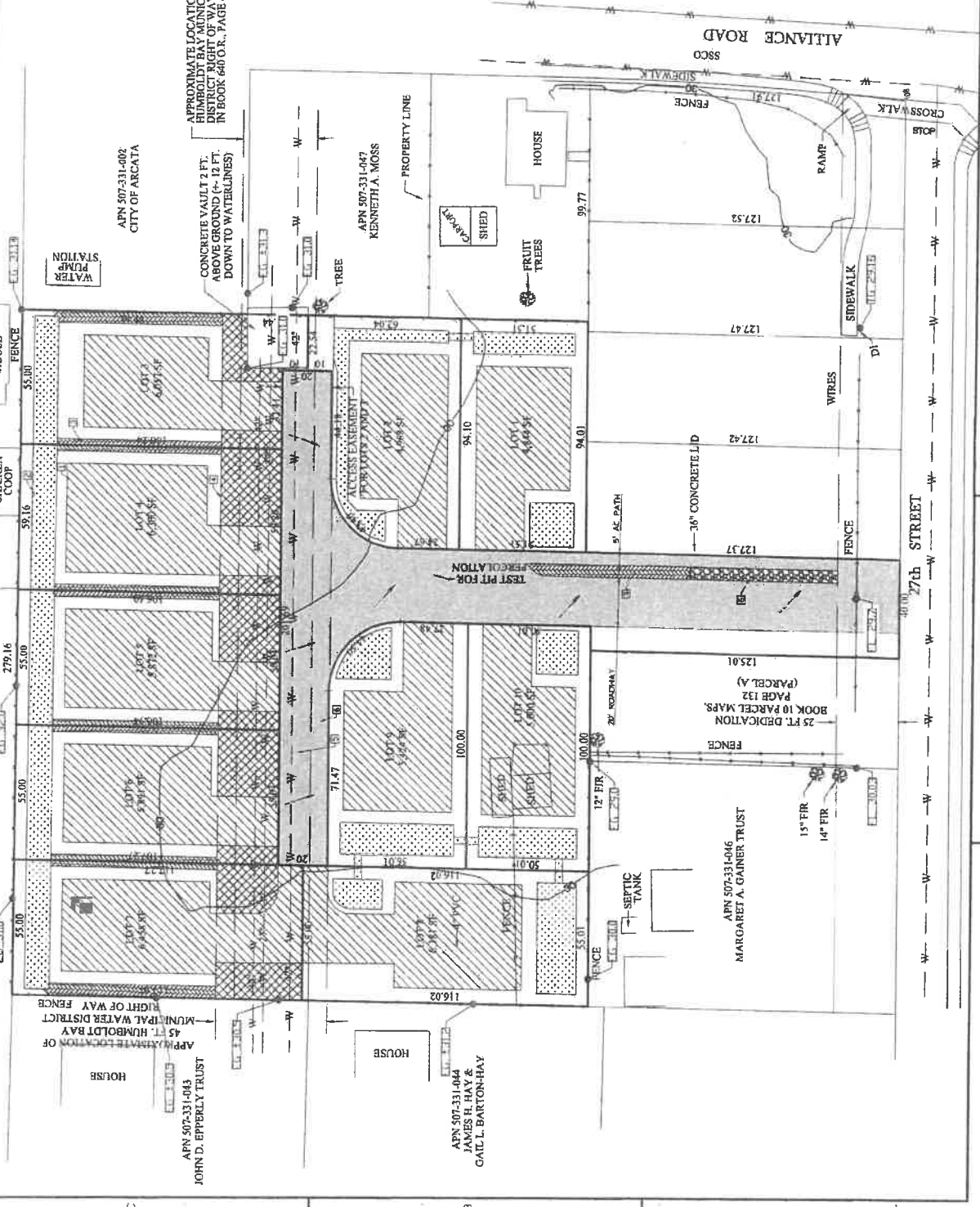
SHEET NUMBER
 17-2080

Scale: 1" = 20' (Horizontal)
 1" = 20' (Vertical)

FOR PLAN REVIEW ONLY - NOT FOR CONSTRUCTION

RECEIVED
 FEB 16 2018
 CITY OF ARCATA
 BUILDING & ENGINEERING DEPT.

HALF SCALE
 N



LEGEND
 1/4" IMPERVIOUS AREA
 1/2" SELF RETAINING AREA
 3/4" VEGETATED SWALE
 1" SOIL IMPROVEMENT AREA
 1 1/2" IMPERVIOUS AREA DISCONNECT
 2" ASPHALT PAVING W/ 42" OF 3/4" CRUSHED ROCK SUBGRADE
 3" INFILTRATION TRENCH
 PROPOSED DRAINAGE DIRECTION
 NEW TREE

APPROXIMATE LOCATION OF 30 FT. HUMBOLDT BAY MUNICIPAL WATER DISTRICT RIGHT OF WAY DESCRIBED IN BOOK 640 O.R., PAGE 499

CONCRETE VAULT 2 FT. ABOVE GROUND (~12 FT. DOWN TO WATERLINES)

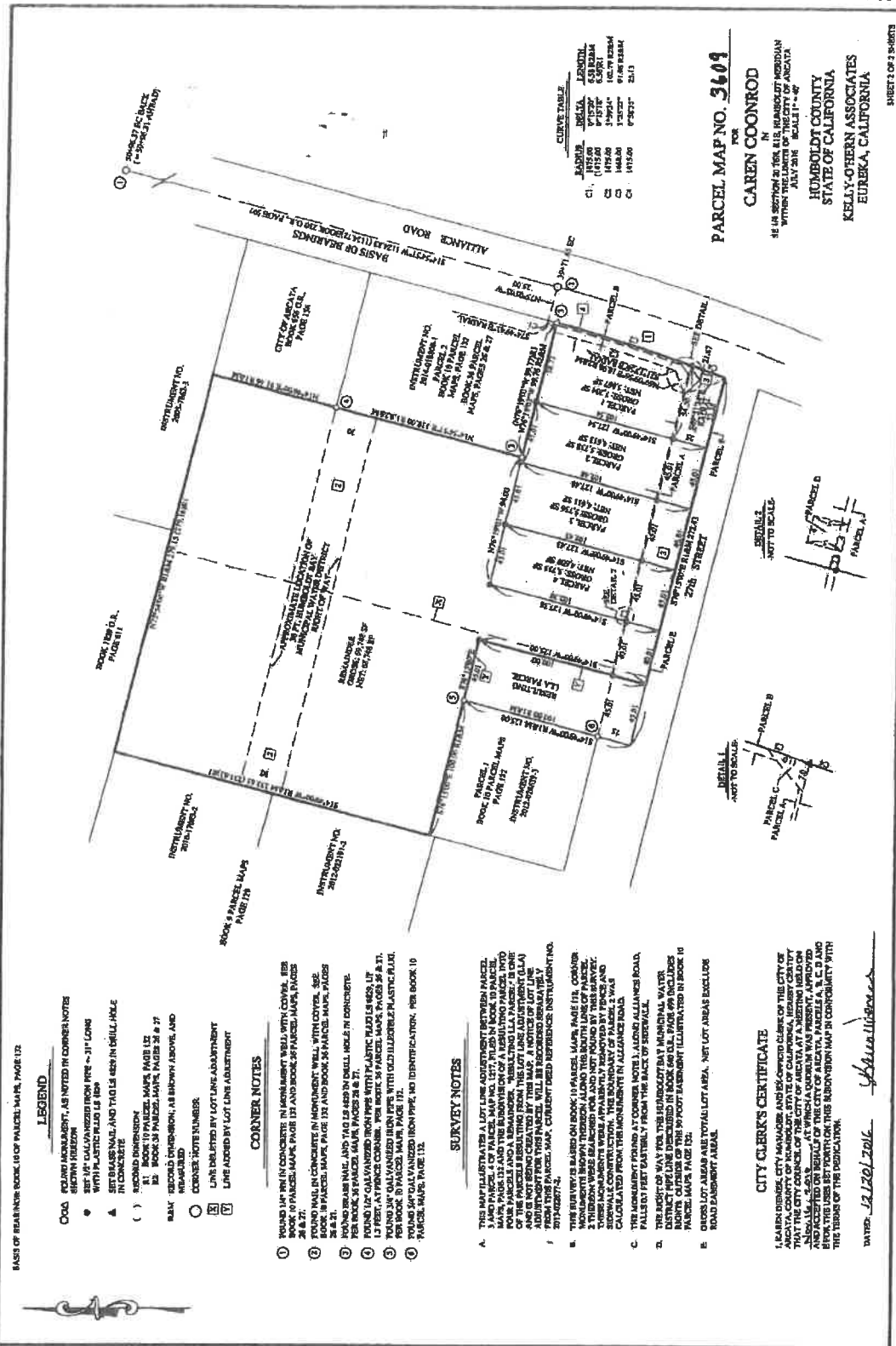
APN 507-31-042
 CITY OF ARCATA

APN 507-31-047
 KENNETH A. MOSS

APN 507-31-046
 MARGARET A. GAINER TRUST

APN 507-31-044
 JAMES HAY & GAIL L. BARTON-HAY

APN 507-31-043
 JOHN D. EPPERLY TRUST



BOOK 36 OF PARCEL MAPS, PAGE 42

SHEET 2 OF 2 SHEETS

LEGEND

- FOUND MONUMENT, AS NOTED IN CORNER NOTES
- SET 1/4" GALVANIZED IRON PIPE ~ 31" LONG WITH PLASTIC PLUG IS IRON
- ▲ SET BRASS NAIL AND TIG IS 450 IN DRILL HOLE IN CONCRETE
- () SET BRASS NAIL
- SET BRASS NAIL AND TIG IS 450 IN DRILL HOLE IN CONCRETE
- RECORD DIVISION, AS SHOWN ABOVE, AND REBUILT
- CORNER NOTE NUMBER
- ⊠ LINE DERIVED BY LOT LINE ADJUSTMENT
- ⊡ LINE ADDED BY LOT LINE ADJUSTMENT

CORNER NOTES

- 1 FOUND 1/4" IRON IN CONCRETE IN MONUMENT WALL WITH CORNER. PER BOOK 10 PARCEL MAPS, PAGE 121 AND BOOK 29 PARCEL MAPS, PAGES 26 & 27.
- 2 FOUND NAIL IN CONCRETE IN MONUMENT WALL WITH CORNER. PER PARCEL MAPS, PAGE 121 AND BOOK 29 PARCEL MAPS, PAGES 26 & 27.
- 3 FOUND BRASS NAIL AND TIG IS 450 IN DRILL HOLE IN CONCRETE. PER BOOK 10 PARCEL MAPS, PAGES 26 & 27.
- 4 FOUND 1/4" GALVANIZED IRON PIPE WITH PLASTIC PLUG IS IRON. PER BOOK 10 PARCEL MAPS, PAGES 26 & 27.
- 5 FOUND 1/4" GALVANIZED IRON PIPE WITH OLD ULTRABRASS PLASTIC PLUG. PER BOOK 10 PARCEL MAPS, PAGE 121.
- 6 FOUND 1/4" GALVANIZED IRON PIPE, NO IDENTIFICATION. PER BOOK 10 PARCEL MAPS, PAGE 121.

SURVEY NOTES

- A. THIS MAP ILLUSTRATES A LOT LINE ADJUSTMENT BETWEEN PARCEL 1 AND PARCEL 2 OF PARCEL MAP NO. 3609, FILED IN BOOK 10 PARCEL MAPS, PAGE 121 AND BOOK 29 PARCEL MAPS, PAGES 26 & 27. THE ADJUSTMENT WAS MADE TO CORRECT AN ERROR IN THE POSITION OF THE PARCELS RESULTING FROM THIS LOT LINE ADJUSTMENT (LLA) AND TO CORRECT AN ERROR IN THE POSITION OF THE PARCELS RESULTING FROM THIS LOT LINE ADJUSTMENT (LLA). THE ADJUSTMENT WILL BE RECORDED SEPARATELY FROM THIS PARCEL MAP. CURRENT DEED REFERENCE INSTRUMENT NO. 2017-00277-4.
- B. THIS SURVEY WAS BASED ON BOOK 10 PARCEL MAPS, PAGE 121. CORNER MONUMENTS WERE SEARCHED FOR AND NOT FOUND BY THIS SURVEY. THESE MONUMENTS WERE APPARENTLY REMOVED BY FENCE AND CONCRETE. THE MONUMENTS WERE RECALCULATED FROM THE MONUMENTS IN ALLIANCE ROAD. CALCULATED FROM THE MONUMENTS IN ALLIANCE ROAD.
- C. THE MONUMENT FOUND AT CORNER NOTES 1 AND 2 ALLIANCE ROAD FALLS 10 FEET EASTERLY FROM THE BACK OF FENCE WALL.
- D. THE RIGHT OF WAY FOR THE HUMBOLDT BAY MUNICIPAL WATER DISTRICT PIPELINE DESCRIBED IN BOOK 60 O.G.L. PAGE 699 INCLUDES THE AREA SHOWN BY THE SUPPORT EMBAYMENT ILLUSTRATED IN BOOK 10 PARCEL MAPS, PAGE 121.
- E. CROSS LOT AREAS ARE TOTAL LOT AREA. NET LOT AREAS EXCLUDE ROAD EMBAYMENT AREAS.

This map/plot is being furnished as an aid in locating the herein described Land in relation to adjoining streets, natural boundaries and other land, and is not a survey of the land depicted. Except to the extent a policy of title insurance is expressly modified by endorsement, if any, the Company does not insure dimensions, distances, location of easements, acreage or other matters shown thereon.

New Business



Mad River Alliance
P.O.B 1252
Blue Lake, CA 95521
707-382-6162
dfcral@madriverallaince.org

Board of Directors

Ishan Vernalis, President
Lauren McClure, Secretary
Don Allan, Treasure
Dave Feral, Member
Aaron Martin, Member

March 22, 2018

Executive Director

Dave Feral

Mr. John Friendenbach
Humboldt Bay Municipal Water District
828 Seventh Street
Eureka, CA 95502

RE: Request for Mad River Alliance Water Quality Monitoring Support

Dear John,

First and foremost, Mad River Alliance (MRA) wanted to express our gratitude for the letter Humboldt Bay Municipal Water District provided in support of our proposal to the Rose Foundation seeking funds to support our water quality monitoring project.

As expressed in previous correspondence, MRA's Science and Monitoring Program is seeking financial support to develop a paid position to manage our water quality monitoring project. The water quality monitoring project requires a great deal of effort, including coordinating volunteer technicians, purchasing and maintaining field equipment, and managing data collection and reporting. To continue to operate this very important project will require funding, and we are seeking to raise \$35,600 to support a staff position to implement this effort, as described above.

In 2017, we were fortunate to be the funding recipient of a US. Environmental Protection Agency, Department of Justice, Settlement for Environmental Projects, which was a result of alleged storm water violation in a tributary to the Mad River. Our current budget dedicates \$9,600 of these



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SECTION I, PAGE NO. 2

funds to support staffing and consultants to fulfil the settlement agreement requirements—to help assess and improve the water quality, environmental habitats, and ecosystems in the Mad River Watershed, as agreed between the Department of Justice and MRA. To continue this important work we need to secure more funding.

We have been working diligently to try to obtain the additional funding needed to continue this water quality monitoring project into the future. MRA has been encouraged to submit a Rose Foundation Watershed Protection Funding for \$20,000 (as suggested by the Rose Foundation director Tim Little). We would like to request \$5,000 from the Humboldt Bay Municipal Water District to support this project. Attached a budget identifying line items for staffing, and related equipment needs relevant to the implementation and maintenance of this project.

I thank you in advance for your support and please contact me with any questions.

Respectfully,

Dave Feral
Executive Director,
Mad River Alliance
707-382-6162

		Task 1	Task 2	Task 3	Task 4	Total Project Costs
		Coordination	Sampling/ Training	Lab Fees	Data Management/ Reporting	
Labor (hours)						
Staff	Rate					
Program Coordinator	\$ 45	80	60		246	\$ 17,370
Support Coordinator	\$ 35	40			86	\$ 4,410
Site Leads	\$ 50		12			\$ 600
Lab Fees	\$ 130			32		\$ 4,160
Total Labor						\$ 26,540
Equipment						
Water Quality Sampling Kits	\$420	4				\$ 1,680
Storage Unit	\$600	1				\$ 600
Database	\$2,500	1				\$ 2,500
Data Sheet Paper Terra Slate	\$530	1				\$ 530
Clipboards	\$30	4				\$ 120
Sampling Tables	\$100	4				\$ 400
Total equipment						\$ 5,830
Project Administration						
Administrative Costs (10% rate)						\$ 3,237
Total Project Cost						\$ 35,607
MRA Match						\$ 9,600
Funding Request Humboldt Bay Municipal Water District						\$ 5,000
Funding Request Humboldt Area Foundation						\$ 1,000
Funding Request Rose Foundation						\$ 20,000

From: John Friedenbach
Sent: Wednesday, February 14, 2018 10:17 AM
To: Sherrie Sobol
Subject: FW: Mad River Water Quality Monitoring Program Support
Attachments: MRAWQMP_SP_FINAL_2018_01_19_v3-1.pdf; MRA_QAPP_19Jan2018-1.pdf

Here is info from Dave Feral re monitoring program for March Blue Book.

J ☺

From: Dave Feral [mailto:dferal@madriveralliance.org]
Sent: Monday, February 05, 2018 11:34 AM
To: John Friedenbach; Sheri Woo
Subject: Mad River Water Quality Monitoring Program Support

Good morning,

It was great to have representatives of the Humboldt Municipal Water District at the Humboldt Steelhead Days Expo. in Blue Lake this last Saturday. I, and the rest of Mad River Alliance were very pleased with the day and happy to see you all there!

As you probably know, now is a crucial time for monitoring water quality in the Mad River watershed, as industries are expanding the threat to our source of drinking water is imminent, and the need for monitoring and water quality protection is very important.

Mad River Alliance is currently seeking support from a few different Foundations, to fund a full time position for a water quality monitoring program coordinator.

I would like to discuss the possibility of the HBMWD providing some support for our Mad River Water Quality Monitoring Program. I have attached our Sampling Plan and our Quality Assurance Program Plan for you to take a look at.

Please feel free to call me when you have the time.

All the best,
Dave Feral
Mad River Alliance
707-382-6162

Mad River Water Quality Monitoring Project

Quality Assurance Project Plan



Mad River Alliance

January 2018

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Appendix 1 Field Data and Observation Sheets
 Appendix 2 Maps of Sampling Sites and Site Location Information

1. Background and Purpose

The Mad River Alliance is a 501©3 not-for-profit organization whose focus is clean water and ecological integrity of the Mad River watershed in northwestern California. The Science and Monitoring Program (SMP) is one of several programs administered by Mad River Alliance (MRA) and the program seeks to link high-quality, science-driven studies of the Mad River's ecological health to volunteers and the community-at-large.

Since 2011, MRA has sought to fill critical data gaps throughout the Mad River watershed by partnering with Tribes, State and Federal Agencies, and Industry representatives to conduct high-quality scientific studies. Ongoing projects include: Mad River Estuary Extent and Salinity Profiles, Summer Steelhead Snorkel Surveys, and Continuous Temperature Monitoring Study. Data generated from these projects raise awareness about the health and function of Mad River, and inform natural resources managers and the general public about the state of the Mad River watershed.

The SMC has identified baseline water quality monitoring in Mad River as a priority to understand the health and function of Mad River. Currently there is very little systematic, long-term monitoring of water quality in Mad River. Water quality monitoring is critical for assessing watershed health and detecting ecological changes, presence of contaminants, etc. Water quality data can give insight to current and future land uses, vegetation regime changes, climate change, and overall health and function of the Mad River watershed, and whether or not that health and function is changing over time.

The Mad River is the source of drinking water for 90,000 residents of Humboldt County. Currently the Mad River is listed on the Clean Water Act Section 303(d) List due to impairments to water quality from sediment/turbidity and high-water temperatures. High quality water is important to provide beneficial uses in the watershed.

Within the lower 14 miles of the Mad River watershed there are over 50 businesses discharging surface storm water into the Mad River. All these businesses are required to have a stormwater discharge plan filed with the North Coast Regional Water Quality Control Board (NCRWQCB). However, NCRWQCB does not have funding or the staff to physically monitor these discharges. Given this, businesses are largely self-regulated; therefore, it is critical to have a third party to perform objective water quality analysis on a quarterly basis. Regular monitoring will help to ensure the health and quality of the source of drinking water of two-thirds of Humboldt County Residents.

Volunteer monitoring programs exist across the world and provide important information about our environment. Volunteer monitoring programs have long recognized the importance of well-designed monitoring projects: written field, lab, and data

management protocols, trained citizen volunteers, and clearly communicated results. A monitoring program on Mad River would provide baseline data regarding a vital watershed in our community.

This program intends to utilize both skilled and unskilled volunteers to collect field data on Mad River water quality. The parameters to measure include: nitrate-nitrogen, phosphate, dissolved oxygen, total alkalinity, turbidity, temperature, and pH are either currently a measurable impairment (temperature and turbidity), or reach levels of impairment at certain points-in-time. This QAPP will define where, when, and how this baseline sampling will occur and be recorded, QAQC procedures, and data storage practices. All Site Leads and technical advisors will receive copies of this Quality Assurance Project Plan (QAPP) and any approved revisions. This document is made available by requesting a copy from dave@madriveralliance.org and info@madriveralliance.org.

1.1. Goals and Objectives of MRWQMP

The goals and objectives of this MRWQMP are provided below:

- To design and execute scientifically credible studies which assess the condition of the Mad River ecosystem,
- To empower citizens to be responsible stewards and decision-makers,
- To identify valued resources and watershed characteristics for setting management goals,
- To identify physical watershed characteristics influencing pollutant inputs, transport and fate,
- To identify the status and trends of biological resources in and around an aquatic environment,
- To screen for water quality problems,
- To identify pollution sources and potentially illegal activities (e.g., spills, wetland fill, diversions, discharges),
- To establish trends in water quality for waters that would otherwise be un-monitored,
- To evaluate the effectiveness of restoration or management practices,
- To evaluate the effect of a particular activity or structure, and
- To evaluate the quality of water compared to specific water quality criteria.

2. Program Organization

The SMP is directed by a dedicated Science and Monitoring Committee (SMC) of MRA that meets regularly to discuss task such as project development, sampling design and data collection protocols, Quality Assurance and Quality Control, data analysis and reporting, and volunteer coordination. The SMC reports to the MRA Board of Directors and Executive Director and takes direction

from these entities to help determine and address key data gaps for the watershed and fulfill related data collection, monitoring, and reporting needs and requests. The Mad River Water Quality Monitoring Project (MRWQMP) is a project administered by the SMC, with the overarching goal of collecting baseline data to further our understanding of the health of Mad River. This QAPP is specifically focused on guiding implementation of the MRWQMP.

2.1. Coordinator, Site Leads, and Advisors

2.1.1. Monitoring Coordinator

Jacob Pounds is the SMP Lead, and responsible for the creation of the MRWQMP, as well as training, supervising, and working with MRA and the SMP Committee to coordinate volunteers and Site Leads to implement the MRWQMP. For the purposes of this document, the SMP lead will be referred to as the Monitoring Coordinator.

The SMC is responsible for identifying sampling priorities, volunteer recruitment, setting sampling frequency, data and equipment storage, and updating these and other aspects of the SMP as needed. The SMC consists of MRA Board of Directors members as well as community volunteers with scientific expertise.

2.1.2. Site Leads

Water quality field data collection efforts will be led by volunteer "Site Leads", who will be recruited by the SMC. There will be one Site Lead for each monitoring location. Site Leads are responsible for recruiting additional volunteers to assist in the sampling collection and process.

2.1.3. Technical Advisors

The MRA SMC will act as the primary technical advisors for implementation of the MRWQMP. The SMC consists of a diversity of scientists that work for non-profit, environmental consulting, and tribal organizations. Additionally, several resource agencies have assisted in the development of this project from its conception and will continue to be involved moving forward. Additional partnerships with will be sought out as needed ensure adequate technical support. The technical advisors of the MRWQMP will oversee and review the tasks associated with watershed assessment and water quality monitoring. They will recommend, review, and comment on quality assurance/quality control procedures, help solve technical problems with the monitoring, review and comment on drafts of manuals and training materials, review protocols and recommend changes as needed, and assist in

interpreting the results. The technical advisors consist of people with different specialties including geology, biology, hydrology, forestry, fisheries, and recreation.

2.2. Equipment and Supply Management

All equipment will be stored at the Blue Lake Rancheria Environmental Programs Water Quality office. The Monitoring Coordinator will ensure that all equipment is in good working order before it is used for sampling. The Monitoring Coordinator will be responsible for distributing equipment to each Site Lead, at least 24 hours before sampling will occur. Site Leads are responsible for the proper use and cleaning of equipment after it has been used for sampling, and returning sampling equipment and completed data sheets to the Monitoring Coordinator within 72 hours of sampling.

2.3. Data Management and Storage

The SMC is responsible for evaluating and analyzing all data generated by the MRWQMP. Data will be stored physically at the Blue Lake Rancheria Environmental Programs Office, until a database can be created to store data electronically. Refer to Section 15 for more details on the data management process and protocols. Data will be compiled in a database administered by MRA, with the intention of making the data publicly available through the MRA website.

2.4. Quality Assurance and Quality Control

The Monitoring Coordinator will be responsible for implementing the quality assurance program and for establishing the appropriate guidelines and for Quality Assurance and Quality Control (QAQC) for all water quality monitoring parameters as specified herein.

3. Project/Task Description

3.1. Parameters to be Monitored

This QAPP addresses data quality objectives for the following parameters:

- Temperature
- Dissolved oxygen

- pH
- Conductivity
- Turbidity
- Nitrate/Nitrite
- Phosphorous
- Total coliform bacteria (analyzed by North Coast Labs)
- Fecal coliform bacteria (analyzed by North Coast Labs)

3.2. Project Timetable

The project timeline is provided in Table 3-1.

Table 3-1. Project Schedule

Activity	Task Status
Identify Site Leads	Completed, On-going as needed
Train Site Leads	On-going
Recruit volunteer monitors	On-going
Obtain and check operation of instruments	On-going
Train volunteer monitors	On-going
Initiate monitoring	Completed
Initiate data entry	Completed
Data entry	On-going
Calibration and quality control sessions	On-going
Review data with technical advisors	On-going

4. Data Quality Objectives

This section identifies how accurate, precise, complete, comparable, sensitive and representative our measurements will be. Objectives for these data characteristics are summarized in the Tables 4-1 to 4-2. Data quality objectives were derived by reviewing the QA plans and performance of other citizen monitoring organizations' (e.g. Chesapeake Bay, Texas Watch, Coyote Creek Riparian Station, Southern California Citizen Monitoring Steering Committee, Heal the Bay Malibu StreamTeam).

Table 4-1. Data quality indicators and measurement quality objectives for field measurements

Parameter	Method / range	Units	Detection Limit	Precision	Accuracy	Completeness
Temperature	Thermometer (-5 to 50°C)	°C	-5	±1°C	1°C	80%
Dissolved oxygen	Electronic meter/probe	mg/L	<0.1	10%	10%	80%
Dissolved oxygen	Micro-Winkler Titration	mg/L	<0.2	10%	10%	80%
pH	pH meter	pH units	2	0.2 units	0.2 units	80%
Conductivity	Conductivity meter	uS	10	5 uS or 10%, whichever is greater	10 uS or 10%, whichever is greater	80%
Turbidity	Titration	JTU's	<0.1	0.2 JTU or 10%, whichever is greater	0.2 JTU or 10%, whichever is greater	80%

Units of measure for Table 5-1 are as follows:

- °C = Degrees Celsius
- mg/l = milligrams per liter of water
- uS = microsiemens
- JTU = Jackson Turbidity Units

Table 4-2. Data quality indicators and measurement quality objectives for bacterial and biological parameters

Parameter	Method	Units	Detection Limit	Precision	Accuracy	Completeness
Total coliform bacteria	Colilert 24 & 18 hour	MPN/100 mL	10	Duplicates within 95% confidence limits	Positive standard within ½ of an order of magnitude	80%
E. coli bacteria	Colilert 24 & 18 hour	MPN/100 mL	10	Duplicates within 95% confidence limits	Positive standard within ½ of an order of magnitude	80%

4.1. Accuracy

Description: Accuracy describes how close the measurement is to its true value. Accuracy is the measurement of a sample of known concentration and comparing the known value against the measured value. Performing tests on standards at the quality control sessions held twice a year will check the accuracy of chemical measurements. A standard is a known concentration of a certain solution. Standards can be purchased from chemical or scientific supply companies. A professional partner (e.g. a local analytical laboratory, certified for water, or wastewater analysis by EPA) might also prepare standards. Single- or double-blind samples may be submitted at the discretion of the state and EPA Quality Assurance Officer.

Procedures: For all chemical water quality parameters, volunteers shall obtain results within the stated data quality objectives in Tables 4.1–4.2. Note that all testing for nitrate includes measurement of nitrite. Testing will be done through the analysis of a solution of known concentration, which will be within 25% to 75% of the range of measurable values.

Accuracy for bacterial parameters will be determined by analyzing a positive control sample. A positive control is similar to a standard, except that a specific discrete value is not assigned to the bacterial concentrations in the sample. This is due to the fact that bacteria are alive and capable of mortality and reproduction. Instead of a specific value, an approximate target value of the bacterial concentration is assigned to the sample by the laboratory preparing the positive control sample.

Instructions for determining accuracy (chemical analyses): Record all results from the test for each instrument. Determine the average value. Compare the average value to the true value. Compare this difference to the accuracy objective set in the previous tables. If the absolute difference is greater, corrective action will be taken to improve performance. Technical advisors will be consulted to determine the appropriate corrective action.

4.1.1. Computation of accuracy

Accuracy will be computed by subtracting the measured value from the expected or true value as provided in Equation 1 below:

$$Difference = Concentration_{True} - Concentration_{Measured}$$

If the % difference for accuracy measurements is desired, then Equation 2 below will be used:

$$\%Difference = \frac{Difference \times 100}{Concentration_{TMC}}$$

If the measurement system calls for multiple replicate analyses then the average of the collected results will be used for the *Concentration_{Measured}* in Equation 1.

4.2. Standardization of Instruments and Test Procedures (chemical and physical parameters)

The temperature measurements will be standardized by comparing thermometers to a NIST-certified or calibrated thermometer. The dissolved oxygen (Winkler method) will be checked by standardizing the sodium thiosulfate solution in the test kit, and/or by comparing the entire kit to saturated oxygen standard. Instructions for checking the sodium thiosulfate are included in the test kit. (Additional reagents and glassware must be purchased separately however.) If the result is unsatisfactory, as indicated in the instructions, the sodium thiosulfate and/or other reagent will be discarded and replaced with new reagents. The validity of the dissolved oxygen test will also be assured by taking these steps:

- Care is taken not to aerate water samples during collection,
- Water is added gently to the dissolved oxygen bottle,
- No air bubbles are present in the sample,
- The titration sample will be measured carefully with a graduated cylinder,
- The sample is swirled thoroughly after each drop of titrant,
- If the endpoint is overrun, another 20 ml. of the sample will be titrated.

Comparators, nephelometers, colorimeters or spectrophotometers and associated reagents will be evaluated twice a year using standards of known value.

4.3. Comparability

Description: Comparability is the degree to which data can be compared directly to similar studies.

Procedures: The following methods will be implemented to ensure that data can be compared to others including:

- State Water Resources Control Board (SWRCB) Citizen Monitoring Draft Compendium for Water Quality Monitoring and Assessment,
- U.S. EPA's Volunteer Monitoring Manuals for Streams, Lakes or Estuaries, and
- California's Department of Fish and Wildlife (CDFW) Stream Bioassessment Protocol for Citizen Monitors.

Before modifying any measurement method, or developing alternative or additional methods, technical advisors will evaluate and review the effects of the potential modification. It will be important to address their concerns about data quality before proceeding with the monitoring program.

4.4. Completeness

Description: Completeness is the fraction of planned data that must be collected in order to fulfill the statistical criteria of the project. There are no statistical criteria that require a certain percentage of data. However, it is expected that 80% of all measurements could be taken when anticipated. This accounts for adverse weather conditions, safety concerns, and equipment problems.

Procedures: We will determine completeness by comparing the number of measurements we planned to collect compared to the number of measurements we actually collected that were also deemed valid. An invalid measurement would be one that does not meet the sampling methods requirements and the data quality objectives. Completeness results will be checked every six months. This will allow us to identify and correct problems. Completeness measurements shall meet the requirements stated in Tables 4.1–4.2 will be used to record our completeness information.

Instructions for Determining Completeness:

To determine the percent completed divide the number of valid samples collected and analyzed by the number of samples anticipated in the monitoring design then multiply by 100%, as shown below in Equation 3 Computation of Completeness:

$$\text{Completeness} = \frac{\# \text{ Samples}_{\text{Analyzed and Reported}} \times 100}{\# \text{ Samples}_{\text{Collected}}}$$

4.5. Precision

Description: Precision describes how well repeated measurements agree. The precision objectives described here refer to repeated measurements taken by different, trained volunteers or the same volunteer on the same water sample. Additional variability would be expected if comparisons were made between different samples taken at the same location.

Procedures: These precision objectives apply to duplicate and split samples taken as part of the QAQC process or as part of periodic in-field QAQC checks. For chemical and physical parameters measurements on the same sample read by different volunteers using the same equipment shall meet the data quality objectives stated in Tables 4.1–4.2.

Precision for bacterial parameters will be determined by Standard Operating Procedures for North Coast Labs. The results of the replicates shall meet the data quality objectives stated in Table 4.2

Instructions for Determining Precision (chemical analyses):

Site Leads will conduct the following: run tests on the same sample, record all results from the test for each instrument, determine the average value, calculate the standard deviation and determine the percent precision (Equation 4 below), and compare the percent precision result to the precision objective set in Tables 4.1–4.2. If the precision is outside of the objectives, corrective action will be taken to improve performance. We will consult our technical advisors to determine the appropriate corrective action.

$$\% \text{ Precision} = \left(\frac{\text{Concentration}_{\text{Highest}} - \text{Concentration}_{\text{Lowest}}}{\text{Concentration}_{\text{Average}}} \right) \times 100$$

4.6. Representativeness

Description: Representativeness describes how relevant the data are to the actual environmental condition.

Problems can occur if:

- Samples are taken in a stream reach that does not describe the area of interest (e.g. a headwaters sample should not be taken downstream of a point source).

- Samples are taken in an unusual habitat type (e.g. a stagnant backwater instead of in the flowing portion of the creek).
- Samples are not analyzed or processed appropriately, causing conditions in the sample to change (e.g. water chemistry measurements are not taken immediately).

Representativeness will be ensured by processing the samples in accordance with Section 9, 10, and 11, by following the established methods, and by obtaining approval of this document.

Procedures: Site Leads will conduct a review of sampling procedures and audits of sampling events. Any deviations noted are to be reported to the SMP.

5. Training Requirements and Certification

All Site Leads must participate in one hands-on training sessions on water quality monitoring conducted by the MRA or have equivalent training as specified by the Technical Advisory Committee on a case by case basis. The following topics are covered under this training:

- General hydrology and watershed ecology,
- Safety,
- Sampling procedures,
- Quality Assurance and Quality Control (QAQC) measures,
- Field analytical techniques, and
- Data recording.

Trained Site Leads may then train their rank-and-file volunteers. Individual trainees are evaluated by their performance of analytical and sampling techniques, by comparing their results to known values, and to results obtained by trainers and other trainees.

In addition to completion of the above-described training course, the Site Leads must participate in semi-annual, or as needed, quality control sessions conducted by through the MRA SMC. Quality control sessions will provide an opportunity for monitoring groups to check the accuracy and precision of their equipment as well as of their own testing techniques. The monitor will bring his/her equipment to the session. The monitor will conduct duplicate tests on all analyses and meet the data quality objectives described in Section 4. If a monitor does not meet the objectives, the trainer will re-train and re-test the monitor. If there is

insufficient time at the QC session to re-train and re-test monitors, the monitor will be scheduled for an additional training session. The monitor will be encouraged to discontinue monitoring for the analysis of concern until training is completed.

The Monitoring Coordinator will examine kits for completeness of components: date, condition, and supply of reagents, and whether the equipment is in good repair. The trainer will check data quality by testing equipment against blind standards. The trainer will also ensure that monitors are reading instruments and recording results correctly. Sampling and safety techniques will also be evaluated.

6. Documentation and Records

All field results will be recorded at the time of completion, using the data sheets as provided in Appendix 1. Data sheets will be reviewed for outliers and omissions before leaving the sample site. The Monitoring Coordinator will sign data sheets after review. Data sheets will be stored in hard copy form at a specified location unique to each monitoring group. Electronic Data will be stored on the MRA Google Drive in the appropriate SMC folder. Field sheets are archived for three years from the time they are collected.

If data entry is performed at another location, duplicate data sheets will be used, with the originals remaining at the Tribal Office in Blue Lake. Datasheets will be scanned and stored electronically every month. Hard copies of all data, as well as computer back-up, will be maintained at both the BLR Tribal Office and Stillwater Science Office in Arcata.

Maintenance logs will also be kept. This log details the dates of equipment inspection and calibrations, as well as the dates reagents are replaced.

7. Sampling Design

7.1. Rationale for Selection of Sampling Sites

Sampling sites are indicated on the maps in Appendix 2. The following criteria were evaluated when choosing sampling locations:

- access is safe,
- permission to cross private property is granted,
- sample can be taken in main river current or where homogeneous mixing of water occurs,
- sample is representative of the part of the water body of interest,

- location complements or supplements historical data, and/or
- location represents an area that possesses unique value for fish and wildlife or recreational use.

Multiple sampling sites may be strategically located upstream and/or downstream of locations of particular interest. If it is determined that a reference site will be added, reference locations will be located upstream of the area in question (i.e., upstream of any potential impact). A site chosen to reflect the potential impact of a particular discharge, tributary or land use shall be located downstream of the location where the impact is completely integrated with the water, but upstream of any secondary discharge or disturbance.

Volunteers are required to work in teams of at least two people. If a scheduled team cannot conduct the sampling together, the Site Lead will call an additional member so that arrangements can be made for a substitute trained volunteer.

Prior to final site selection, permission to access the stream will be obtained from all property owners. If access to the site is a problem, the monitoring leader will select a new site. Safety issues are addressed in the Mad River Alliance Water Quality Monitoring Project Sampling Plan.

The Monitoring Coordinator will review sample sites. A short description will describe site conditions and include photographs of the sampling location.

Safety measures, provided in detail, will be discussed with all volunteers. For example, no instream sampling will be conducted if there are small creek flood warnings or advisories. The Monitoring Coordinator will be responsible for checking weather conditions and contacting Site Leads to call off monitoring, if it is determined to be unsafe.

8. Sampling Methods

~~The individual watershed monitoring manuals describe the appropriate sampling procedure for collecting samples for water chemistry. All water quality samples will be taken with a LaMotte dissolved oxygen sampling device, or by dipping a plastic container or glass sediment sampler (DH48 style) into the water column of a wadable water body.~~

~~Sample containers will be rinsed three times with sample water prior to taking each sample except for prepared bottles provided by laboratory. All samples will be taken at least one inch below the surface. Sampler will wear gloves when taking dissolved oxygen (Winkler titration method) and bacteria samples. Whenever possible, the collector will sample from a bridge so that the creek is not~~

1:34 PM
06/10/17
Cash Basis

Mad River Alliance
Profit & Loss Budget Overview
July 2017 through June 2018

	Jul '17 - Jun 18
Ordinary Income/Expense	
Income	
Donations	6,000.00
Fundraising Events	29,200.00
Grants	12,000.00
Program Service Revenue	4,500.00
	4,500.00
Total Income	51,700.00
Expense	
Advertising & Marketing	2,500.00
Bank Fees	200.00
CalTrout Expenses	0.00
Direct Fundraising Expenses	15,700.00
Direct Program Expenses	11,000.00
Dues & Subscriptions	300.00
Insurance	2,000.00
Office Supplies	350.00
Postage, Mailing Service	100.00
Printing and Copying	500.00
Professional Fees	
Bookkeeping	2,400.00
Consultant	11,200.00
Legal	800.00
Marketing	1,600.00
Professional Fees - Other	0.00
	16,000.00
Total Professional Fees	16,000.00
Total Expense	48,650.00
Net Ordinary Income	3,050.00
Other Income/Expense	
Other Income	
Interest Income	0.00
	0.00
Total Other Income	0.00
Net Other Income	0.00
Net Income	3,050.00

12:48 PM

03/08/18

Accrual Basis

Mad River Alliance
Balance Sheet Prev Year Comparison
As of February 28, 2018

	Feb 28, 18	Feb 28, 17	\$ Change	% Change
ASSETS				
Current Assets				
Checking/Savings				
CCCU Checking	55,652.71	65,426.90	(9,764.19)	(14.9)%
CCCU Savings	1,479.18	150.05	1,329.13	885.8%
PayPal	56.46	40.00	16.46	41.2%
Total Checking/Savings	57,188.35	65,616.95	(8,418.60)	(12.8)%
Accounts Receivable				
Accounts Receivable	3,280.00	0.00	3,280.00	100.0%
Total Accounts Receivable	3,280.00	0.00	3,280.00	100.0%
Other Current Assets				
Undeposited Funds	3,489.00	0.00	3,489.00	100.0%
Total Other Current Assets	3,489.00	0.00	3,489.00	100.0%
Total Current Assets	63,967.35	65,616.95	(1,649.60)	(2.5)%
TOTAL ASSETS	<u>63,967.35</u>	<u>65,616.95</u>	<u>(1,649.60)</u>	<u>(2.5)%</u>
LIABILITIES & EQUITY				
Liabilities				
Current Liabilities				
Accounts Payable				
Accounts Payable	964.80	1,941.05	(976.25)	(50.3)%
Total Accounts Payable	964.80	1,941.05	(976.25)	(50.3)%
Credit Cards				
Umpqua Bank Credit Card	1,360.72	498.41	862.31	173.0%
Total Credit Cards	1,360.72	498.41	862.31	173.0%
Other Current Liabilities				
Sales Tax Payable	84.30	0.00	84.30	100.0%
Total Other Current Liabilities	84.30	0.00	84.30	100.0%
Total Current Liabilities	2,409.82	2,439.46	(29.64)	(1.2)%
Total Liabilities	2,409.82	2,439.46	(29.64)	(1.2)%
Equity				
Unrestricted Net Assets	45,632.88	0.00	45,632.88	100.0%
Net Income	15,924.65	63,177.49	(47,252.84)	(74.8)%
Total Equity	61,557.53	63,177.49	(1,619.96)	(2.6)%
TOTAL LIABILITIES & EQUITY	<u>63,967.35</u>	<u>65,616.95</u>	<u>(1,649.60)</u>	<u>(2.5)%</u>

12:48 PM

03/08/18

Accrual Basis

Mad River Alliance
Profit & Loss Budget vs. Actual
July 2017 through February 2018

	Jul '17 - Feb 18	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
Donations/Contributions	10,796.88	4,000.00	6,796.88	269.9%
Fundraising Events Revenue	5,585.00	19,484.00	(13,899.00)	28.6%
Grants	0.00	8,000.00	(8,000.00)	0.0%
Merchandise Sales	3,178.99			
Program Income	33,157.33	3,000.00	30,157.33	1,105.2%
Total Income	52,698.20	34,464.00	18,234.20	162.9%
Cost of Goods Sold				
Cost of Goods Sold	6,252.43	0.00	6,252.43	100.0%
Total COGS	6,252.43	0.00	6,252.43	100.0%
Gross Profit	46,445.77	34,464.00	11,981.77	134.8%
Expense				
Advertising & Marketing	1,383.00	1,668.64	(273.64)	83.6%
Bank & CC Processing Fees	287.00	133.36	154.54	215.9%
Call/Trout Expenses	0.00	0.00	0.00	0.0%
Direct Program Supplies	3,194.67	7,336.00	(4,141.33)	43.5%
Dues & Subscriptions	729.04	200.00	529.04	364.5%
Fundraising Expenses	1,186.27	10,466.64	(9,270.37)	11.4%
Insurance	771.00	1,333.36	(562.36)	57.8%
Meals & Entertainment	148.63			
Office Supplies	249.32	233.28	16.04	106.9%
Postage, Mailing Service	52.00	66.64	(14.64)	78.0%
Printing and Copying	996.28	333.36	662.92	288.9%
Professional Fees				
Accounting	700.00	0.00	700.00	100.0%
Bookkeeping	2,038.75	1,600.00	438.75	127.4%
Consultant	15,195.00	7,480.00	7,715.00	203.1%
Legal	0.00	536.00	(536.00)	0.0%
Marketing	3,570.00	1,080.00	2,490.00	330.6%
Professional Fees - Other	0.00	0.00	0.00	0.0%
Total Professional Fees	21,503.75	10,696.00	10,807.75	201.0%
Total Expense	30,521.86	32,466.28	(1,943.42)	94.0%
Net Ordinary Income	15,923.91	1,998.72	13,925.19	786.7%
Other Income/Expense				
Other Income				
Interest Income	0.74	0.00	0.74	100.0%
Total Other Income	0.74	0.00	0.74	100.0%
Net Other Income	0.74	0.00	0.74	100.0%
Net Income	15,924.65	1,998.72	13,925.93	786.7%

Mad River Alliance
Profit & Loss by Class
July 1, 2017 through March 8, 2018

	Humboldt Steelhead Days (Fundraising)	Total Fundraising	TOTAL
Ordinary Income/Expense			
Income			
Donations/Contributions	5,893.45	5,893.45	5,893.45
Fundraising Events Revenue	5,565.00	5,565.00	5,565.00
Merchandise Sales	3,217.70	3,217.70	3,217.70
Total Income	14,676.15	14,676.15	14,676.15
Cost of Goods Sold			
Cost of Goods Sold	4,300.39	4,300.39	4,300.39
Total COGS	4,300.39	4,300.39	4,300.39
Gross Profit	10,375.76	10,375.76	10,375.76
Expense			
Advertising & Marketing	1,313.00	1,313.00	1,313.00
Bank & CC Processing Fees	69.44	69.44	69.44
Dues & Subscriptions	13.95	13.95	13.95
Fundraising Expenses	976.41	976.41	976.41
Meals & Entertainment	148.63	148.63	148.63
Printing and Copying	529.52	529.52	529.52
Professional Fees			
Consultant	5,712.09	5,712.09	5,712.09
Marketing	285.00	285.00	285.00
Total Professional Fees	5,997.09	5,997.09	5,997.09
Total Expense	9,048.04	9,048.04	9,048.04
Net Ordinary Income	1,327.72	1,327.72	1,327.72
Net Income	1,327.72	1,327.72	1,327.72



SECTION I2 PAGE NO. 1
HUMBOLDT BAY MUNICIPAL WATER DISTRICT

828 SEVENTH STREET, PO BOX 95 • EUREKA, CALIFORNIA 95502-0095

OFFICE 707-443-5018 ESSEX 707-822-2918

FAX 707-443-5731 707-822-8245

EMAIL OFFICE@HBMWD.COM

Website: www.hbmwd.com

BOARD OF DIRECTORS

SHERI WOO, PRESIDENT

NEAL LATT, VICE-PRESIDENT

J. BRUCE RUPP, SECRETARY-TREASURER

BARBARA HECATHORN, DIRECTOR

MICHELLE FULLER, DIRECTOR

GENERAL MANAGER

JOHN FRIEDENBACH

April 4, 2018

Mike Avcollie, Project Manager
Redwood Coast Energy Authority
633 3rd Street
Eureka, CA 95501

RE: Public Agency Pilot Solar Program-Letter of Intent

Hello Mike,

Our agency is interested in participating in the RCEA Public Agency Pilot Solar Program. We are interested in reducing our carbon footprint and using renewable energy sources in an economically viable manner.

Our application is enclosed along with the McKeever Energy & Electric Solar Photovoltaic Feasibility Report completed for us in 2014. The facility that we are interested in exploring is our Eureka office located at 828 7th Street.

If the project is successful at our location, we will definitely promote its success. We intend to do this via a press release as well as promoting the success on our District website.

We understand that final services will be contingent on a Board Resolution to be submitted after the initial site assessment.

We look forward to working with you on the initial assessment.

Respectfully,

A handwritten signature in cursive script, appearing to read "John Friedenbach".

John Friedenbach
General Manager



Public Agency Pilot Solar Program

Organization: Humboldt Bay Municipal Water District
Name of Decision Maker: John Friedenbach Title: General Manager
Primary Contact Info: " " Title: " "
Primary Address: 828 7th Street City: Eureka Zip: 95501-1114
Mailing Address: P.O. Box 95 City: Eureka Zip: 95502-0095
Phone: (707) 443-5018 Cell: Fax: (707) 443-5731
Email: friedenbach@hbmwd.com
How did you hear about Redwood Coast Energy's Public Agency Solar Program? Email

Site Information: Please list sites of interest for solar assessment (attach additional sheets if necessary)

Site Name: Eureka HBMWD office Site Address: 828 7th Street, Eureka

Certifications

- Public agency commits to provide data, site access and relevant documents.
Public agency commits to exploring financing or funding for potential projects that are deemed cost-effective by common industry standards.
Public agency commits to ensuring all CEQA requirements are met.
Public agency commits to the state's loading order for energy related projects.
Public agency commits to ensuring staff time is made available to move related projects forward promptly.
Public agency commits to following all contracting requirements for public works projects.

By signing this application I authorize a Redwood Coast Energy Authority representative to access my facility and to conduct a NO-COST assessment. I understand that the evaluation and report (when applicable) will be provided to me at NO COST and with no obligation to pay for any goods or services. In the unlikely event that any incidental or consequential damage occurs during the evaluation process, each party assumes responsibility for its own negligence, including responsibility for the negligence of its employees, contractors, subcontractors, and agents, and for the claims of third parties resulting from such negligence.

Print Name: John Friedenbach
Signature: [Handwritten Signature] Date: 4/4/18

Please submit this application to Redwood Coast Energy Authority
Mail or deliver to: 633 3rd Street, Eureka, CA 95501 • Fax: 707.269.1777
Email: mavcollie@redwoodenergy.org • If you have questions, contact us at 707.269.1700

How can RCEA's Public Agency Solar Program Benefit Your Public Agency?

Reduce your **operating costs**
and reduce your **carbon footprint**
by taking advantage of our **NO-COST**
solar energy and energy efficiency
services for your Public Agency



No-cost solar energy and energy efficiency services include:

- Electric load analysis
- No obligation assessment of lighting, refrigeration & other efficiency opportunities for your agency
- Solar site assessments and system design
- Feasibility studies with recommendations, a financial summary and available incentives
- Assistance with identifying funding sources and securing project financing
- Recommendations for available energy savings and efficiency upgrades prior to sizing a solar array for your agency
- Review existing project proposals for energy efficiency measures and solar photovoltaic measures.

Who is eligible?

Participants must be a local public agency or special services district, RCEA member agencies will be given priority, call us to find out more.

*PG&E customers are eligible for RCEA's energy efficiency programs through the public goods charge on transmission and distribution. Please find RCEA's **Nonresidential Application for Energy Services** on our website.

Take the first step:

Fill out the application on reverse side of this flyer and return it to the Redwood Coast Energy Authority. Call us with your questions or to learn more about these no-cost energy efficiency and renewable energy services.

What happens next?

RCEA staff will work with your organization to develop a scope of work and identify feasible and eligible projects. Organizations that decide to move forward with RCEA's recommended energy efficiency or renewable energy measures will enter into a Participation Agreement with RCEA. Project acceptance, implementation, and contracting methods will be developed individually through the Participation Agreement process. Organizations deciding not to upgrade their facility are under no further obligation.



REDWOOD COAST
Energy Authority

mavcollie@redwoodenergy.org
(707) 269-1700 fax:(707) 269-1777
633 3rd St. Eureka, CA 95501
www.RedwoodEnergy.org

Resolution No. 2018-04
Recognizing and Honoring the Outstanding Service and Achievements of
Carol McKibben

WHEREAS Carol McKibben has faithfully served the HUMBOLDT BAY MUNICIPAL WATER DISTRICT beginning June 10, 2002 as an Operations and Maintenance Technician; and

WHEREAS Carol will retire from the District on May 2, 2018; and

WHEREAS during 15 plus years of service, Carol has performed her duties efficiently, effectively, in the best interests of the District, and always with a good sense of humor; and

WHEREAS her service was distinguished by quality work and high professional standards; and

WHEREAS Carol McKibben has been an excellent, efficient, and exacting operator for the District; and

WHEREAS Carol has successfully contended with high winds, high water, and high head loss through the dead-of-; drear-of-; and dark-of-night, and

WHEREAS Carol has brightened our halls and holidays with pink flamingos, red peppers, blue peepers, and yellow peeps, and

WHEREAS Carol has been a doyen of disinfection, a cognoscente of coagulation, a thaumaturgist of turbidity, and a maven of MCLs; and

WHEREAS Carol has endured with good humor through gushing geysers of water, high head loss filters, and far flung Frisbees; and

WHEREAS Carol has been a reliable compatriot, a jocular co-worker, and a dedicated professional in the field of water treatment; and

WHEREAS the Board of Directors wishes to formally recognize and commend such service,

THEREFORE, BE IT RESOLVED, that the HUMBOLDT BAY MUNICIPAL WATER DISTRICT Board of Directors hereby declares, to Carol McKibben, on behalf of the District, the staff and other close associates, its genuine appreciation for almost 16 years of dedicated service performed by Carol McKibben during her tenure with the District.

PASSED, APPROVED AND ADOPTED this 12th day of April 2018.

Attest:

Sheri Woo, President

Neal Latt, Vice-President

J. Bruce Rupp, Secretary/Treasurer

Barbara Hecathorn, Director

Michelle Fuller, Director

John Friedenbach, General Manager

Dale Davidsen, Superintendent

Engineering

Humboldt Bay Municipal Water District
Mad River Pipeline Crossing Project

NOTICE OF AWARD

TO: Mercer-Fraser Company
PO Box 1006
Eureka, CA 95502

PROJECT: Mad River Pipeline Crossing Project

The Owner has considered the bid submitted by you for the above described work in response to its Advertisement for bids dated February 8, 2018 and Information for Bidders.

You are hereby notified that your bid has been accepted for items in the amount of

One Million Forty-Five Thousand Four Hundred Dollars
(\$1,045,400.00)

You are required by the Information for bidders to execute the Agreement and furnish the required Contractor's certificates of insurance within twenty one (21) calendar days from the date this Notice is received by you.

If you fail to execute said Agreement and to furnish said insurance within twenty one (21) calendar days from the date of receipt of this Notice, said Owner will be entitled to consider all your rights arising out of the Owner's acceptance of your BID as abandoned and as a forfeiture of your bid bond. The Owner will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this Notice of Award to the Owner.

Dated this 9th day of March, 2018.

Owner: Humboldt Bay Municipal Water District

By: [Signature] Title: General Manager

ACCEPTANCE OF NOTICE

Receipt of the above Notice of Award is hereby acknowledged by:

Mercer-Fraser Company
(Name of Contractor)

Dated this 9th day of MARCH, 2018.

By: [Signature] Title: VICE-PRESIDENT

NOTICE TO PROCEED

TO: Mercer-Fraser Company
200 Dinsmore Drive
Fortuna, CA 95540

PROJECT: Mad River Pipeline Crossing Project

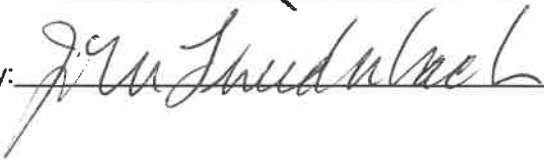
You are hereby notified to commence Work in accordance with the Agreement on or before the fourth day of April, 2018, and you are to complete the Work within 180 consecutive calendar days thereafter.

The date of completion of all Work is therefore the 30th day of September, 2018.

You are required to return an acknowledged copy of this Notice to Proceed to the Owner.

Dated this 3rd day of April, 2018.

Owner: Humboldt Bay Municipal Water District

By:  Title: General Manager

ACCEPTANCE OF NOTICE

Receipt of the above Notice to Proceed is hereby acknowledged by:

(Name of Contractor)

Dated this _____ day of _____, 2018.

By: _____ Title: _____

R.W. Matthews Dam Focused Spillway PFMA Workshop Agenda

Meeting Date	Meeting Time	Location
03/22/2018	09:00 AM – 03:00 PM	WebEx: https://my.intercall.com/b6oq9hq Call-in: Conference Code:
Workshop Facilitator	Bill Rettberg, GEI, Qualified Dam Safety Consultant (QDSC)	
Meeting Purpose	Conduct a focused Potential Failure Mode Analysis (PFMA) Workshop for the existing spillway structure at R.W. Matthews Dam	
Meeting Invitees	See Page 2	

Thursday, March 22, 2018

9:00 am to 9:15 am	Introductions & Dam Safety Moment	All/District
9:15 am to 9:20 am	Workshop Purpose, Conduct ¹ , & Ground Rules	Rettberg
9:20 am to 9:30 am	PFM Classifications ² (Attachment 1)	Rettberg
9:30 am to 9:45 am	Regulatory Perspectives	FERC & DSOD
9:45 am to 10:00 am	Review/Update Pertinent Data Tables (Attachment 2)	All
10:00 am to 10:45 am	Spillway Description: Design, Construction, Foundation Geology, Maintenance/Repairs, Performance, and Data Gaps (Attachment 3)	GEI/District
10:45 am to 11:00 am	Break	
11:00 am to 1:00 pm	Discussion of New Spillway-Related PFMs ³ (Attachment 4)	All
1:00 pm to 2:30 pm	Discussion of Existing Pertinent Spillway- and Flood-Related PFMs (Attachments 4, 5)	All
2:30 pm to 2:45 pm	Major Findings & Understandings	All
2:45 pm to 3:00 pm	Workshop Follow-up Items & Adjournment	GEI/District

¹ Participants are encouraged to ask questions and actively participate during the workshop. Everyone is encouraged to “*check your hat at the door*”.

² Participants are welcome to vote or may abstain, if desired.

³ Working lunch & continued discussion.

FINANCIAL

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
Statement of Fund Balances at March 31, 2018

Account Fund Balance at Month End	AT 3-31-18	AT 3-31-17
<u>U.S. BANK ACCOUNTS</u>		
- Commercial Account - General Fund Account	245,827.72	491,648.41
- Money Market Account (DWR Contract for SRF Loan)	① 299,339.95	297,789.21
- Certificate of Deposit (DWR Contract for SRF Reserve)	② 547,336.94	547,336.94
Subtotal	1,092,504.61	1,336,774.56
<u>HUMBOLDT COUNTY:</u>		
- Investment Account	2,384,465.11	2,537,689.45
- DWFP Reserve (in accordance with Ordinance 16)	④ 232,592.83	470,888.14
- MSRA Reserve (Municipal Supplemental Reserve Account)	⑤ 425,702.95	421,711.47
- SRF Loan Payment	⑥ 49,152.21	48,684.81
- ReMat Account	⑦ 135,640.56	0.00
- 1% Tax Account	③ 0.00	352.38
Subtotal	3,227,553.66	3,479,326.25
<u>L.A.I.F.</u>	1,623.79	1,607.72
Cash on Hand	650.00	650.00
TOTAL CASH	\$ 4,322,332.06	\$ 4,818,358.53
Less: Encumbrances & Reserves (Funds Dedicated for Specific Purposes and Projects)		
<u>RESTRICTED</u>		
Municipal Customers PF2 Prior Year Reconciliation	(108,622.25)	(152,911.98)
1% Tax Account	③ 0.00	(352.38)
Municipal Customer Adv. Chrg. - Ranney Collector 1 & 1A Rehabilitation	0.00	(28,178.60)
Municipal Customer Adv. Chrg. - Collector 1 Pump Motors	0.00	0.00
Municipal Customer Adv. Chrg. - IMG Domestic Reservoir Roof	(88,661.37)	0.00
Municipal Customer Adv. Chrg. - Replace Ruth Bunkhouse	(403,500.00)	(195,000.00)
Municipal Customer Adv. Chrg - SCADA System Upgrade	(83,452.98)	0.00
Municipal Customer Adv. Chrg. - Blue Lake/FGCSD River Crossing	0.00	0.00
Municipal Customer Adv. Chrg. - Surge Tower Replacement	0.00	0.00
DWR Reserve Fund for SRF Loan	② (547,336.94)	(547,336.94)
DWR Contract Payment for SRF Loan for DWFP (Drinking Water Filtration Plant-PF1 Charges from Munis)	① (299,339.95)	(297,789.21)
<u>SUBTOTAL RESTRICTED RESERVES (Net Position)</u>	(1,530,913.49)	(1,221,569.11)
<u>UNRESTRICTED:</u>		
<u>Board Restricted:</u>		
Paik-Nicely Development	(4,158.00)	(4,158.00)
DWFP Reserve	④ (232,592.83)	(470,888.14)
MSRA Reserve (Municipal Supplemental Reserve Account)	⑤ (425,702.95)	(421,711.47)
PG&E REMAT Deposit	(27,000.00)	(27,000.00)
PG&E REMAT Reserve (County Fund)	⑦ (135,640.56)	0.00
<u>Unrestricted Reserves</u>		
SRF Loan Payment	⑥ (49,152.21)	(48,684.81)
Municipal Customer Accumulation for Debt Service for US Bank		
Ranney & Techite Project Loan Payment	44,192.24	44,026.75
General Fund Reserve	(1,961,364.26)	(2,668,373.75)
<u>SUBTOTAL UNRESTRICTED RESERVES (Net Position)</u>	(2,791,418.57)	(3,596,789.42)
Total Net Position	(4,322,332.06)	(4,818,358.53)

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
 AT MARCH 31, 2018 (9 MONTH - 75%)

	MARCH RECEIPTS	YTD TOTAL AT 3-31-18	BUDGET	% OF BUDGET	YTD TOTAL AT 3-31-17
MISCELLANEOUS RECEIPTS (RETURNED TO CUSTOMERS VIA PF2)					
RETAIL WATER SALES	\$ 21,250.22	\$ 214,241.73	\$312,151	69%	\$ 290,336.75
SUBTOTAL RETAIL WATER SALES	\$ 21,250.22	\$ 214,241.73	\$312,151	69%	\$ 290,336.75
GENERAL REVENUES					
INTEREST	0.00	16,947.70	\$12,000	141%	32,181.31
FCSD CONTRACT FOR MAINT. & OPERATIONS	0.00	164,553.70	175,000	94%	163,027.03
POWER SALES NET REMAT	21,732.15	82,676.08	197,000	42%	163,524.05
MISCELLANEOUS (SEE NEXT PAGE)	\$58,277.50	\$93,191.34	50,000	186%	\$ 51,268.13
SUBTOTAL GENERAL REVENUES	\$ 80,009.65	\$ 357,368.82	\$434,000	82%	\$ 410,000.52
TAX RECEIPTS					
1% TAXES	0.00	507,307.21	775,000	65%	479,834.99
TOTAL PF 2 CREDIT	\$ 101,259.87	\$ 1,078,917.76	\$1,521,151	71%	\$ 1,180,172.26

	MARCH RECEIPTS	YTD TOTAL AT 3-31-18	BUDGET	% OF BUDGET	YTD TOTAL AT 3-31-17
WHOLESALE CONTRACT RECEIPTS					
INDUSTRIAL / HARBOR DISTRICT	\$0.00	\$612.40	\$10	6124%	\$1,108.28
TOTAL INDUSTRIAL	\$0.00	\$612.40	\$10	6124%	\$1,108.28
CITY OF ARCATA	\$ 89,549.48	\$ 826,741.21	\$1,162,728	71%	\$ 863,610.94
CITY OF EUREKA	213,530.16	1,959,932.75	2,758,065	71%	2,069,065.71
HUMBOLDT CSD	70,128.30	645,982.03	923,496	70%	695,191.47
MANILA CSD	3,582.73	40,060.93	74,513	54%	55,874.29
MCKINLEYVILLE CSD	71,222.08	659,997.60	935,846	71%	700,484.12
FIELDBROOK CSD	23,347.74	108,354.68	151,117	72%	113,991.73
BLUE LAKE	12,702.99	116,718.74	164,116	71%	122,506.29
TOTAL MUNIS	\$ 484,063.48	\$ 4,357,787.94	\$6,169,881	71%	\$ 4,620,724.55
REMAT REVENUE less Consultant fee (3)	44,805.67	163,702.46	300,000	55%	0
TOTAL RECEIPTS	\$ 630,129.02	\$ 5,601,020.56	\$7,691,042	73%	\$ 5,802,005.09

MISCELLANEOUS RECEIPTS

	MARCH	YEAR TO DATE
Administrative		
<i>Parking Lot Rent</i>	\$25.00	\$250.00
<i>Employee Telephone</i>	0.00	357.52
<i>Employee Gas</i>	6.66	548.14
<i>Retirees' Reimbursement of Health Insurance Premium</i>	5,025.74	25,600.85
<i>COBRA Vision Ins & Admin Fee - Retiree</i>	18.93	359.67
<i>COBRA Dental Ins & Admin Fee - Retiree</i>	66.50	1,346.98
<i>Water Processing Fees</i>	90.00	330.00
<i>Hydrant Rental Deposit</i>	0.00	525.00
<i>Meter Installations</i>	0.00	0.00
<i>Retail Connection Charge</i>	0.00	0.00
<i>Mainline Connection Charge</i>	0.00	0.00
<i>Right of Way Fees</i>	0.00	0.00
<i>Special Event Liability Insurance</i>	0.00	514.75
<i>ACWA/JPIA Retrospective Premium Adjustment</i>	45,846.22	45,846.22
<i>ACWA/JPIA Insurance Claim</i>	0.00	0.00
<i>Dividend Check (Principal Life)</i>	0.00	758.28
<i>Bad Debt Recovery</i>	0.00	81.20
<i>Miscellaneous Payments for Copies &/or Postage Costs</i>	20.87	214.32
<i>Diesel Fuel Tax Refund</i>	0.00	106.24
<i>Park Use Fees</i>	50.00	100.00
<i>Sale of Surplus Equipment</i>	0.00	7,950.00
<i>Reimbursement for District Coffee Mugs</i>	0.00	97.39
<i>Reimbursement for personal charge on District credit card</i>	0.00	103.00
<i>Reimbursement for safety apparel</i>	0.00	88.00
<i>Reimbursement for District Hats</i>	0.00	283.00
<i>Lithia Dodge - Refund - Overpayment of DMV Fees</i>	0.00	81.00
<i>Scotia CSD - Reimbursement for emergency chemical supplies</i>	0.00	112.20
<i>County of Humboldt - Refund of Inspection Fees for Techite Pipeline Replacement Project</i>	599.58	599.58
Ruth Area		
<i>Use of Ruth Cabin</i>	0.00	210.00
<i>RLCSD-Water System Permit Fees</i>	0.00	0.00
<i>Ruth Area Water Use Permit</i>	0.00	100.00
<i>Buffer Strip Right of Way License Fee</i>	0.00	0.00
<i>Ruth Buffer Strip PG&E Right of Way Fees</i>	0.00	100.00
<i>Ruth Sale of Merchantable Timber</i>	0.00	0.00
<i>Ruth Sale of Surplus Gravel</i>	0.00	0.00
<i>Don Bridge Lease</i>	768.00	768.00
<i>FEMA Storm Damage Claim - Ruth Culvert</i>	5,760.00	5,760.00
Miscellaneous		
<i>Other</i>	0.00	0.00
Total Miscellaneous Receipts	\$58,277.50	\$93,191.34
OTHER RECEIPTS or GRANTS		
<i>Prop 84 - Ranney Collector 1</i>	0.00	93,755.50
<i>CalEMA Blue Lake/Fieldbrook Pipeline Crossing</i>	0.00	0.00
<i>Quagga Grant 2015/16 on behalf of RLCSD*</i>	0.00	915.00

* Not included in PF2 Credits. No charges were expended by HBMWD.
Claim for expenditures was submitted by HBMWD on behalf of RLCSD.

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HUMBOLDT BAY MUNICIPAL WATER DISTRICT
TOTAL EXPENDITURES
AT MARCH 31, 2018 (9 MONTHS - 75%)

	MARCH EXPENSES	YTD TOTAL 3/31/2018	BUDGET	% OF BUDGET	TOTAL 3/31/2017
PAYROLL: See next page for detail					
Total Compensation	\$172,543.05	\$1,642,337.24	\$ 2,273,365	72%	\$1,585,815.47
Taxes/Benefits	117,913.98	1,102,332.94	1,468,911	75%	1,075,767.25
TOTAL PAYROLL	\$290,457.03	\$2,744,670.18	\$ 3,742,276	73%	\$2,661,582.72
SERVICE & SUPPLY					
O & M					
Engineering	\$3,202.50	\$55,029.25	\$ 75,000	73%	\$32,161.50
Maint., Repairs, Supplies	6,537.28	168,532.49	115,000	147%	90,796.18
TRF Maint, Repairs, Supplies	8,482.20	34,104.57	62,000	55%	46,594.94
Lab	845.00	8,131.84	13,000	63%	8,834.70
Auto Maintenance	2,067.20	27,555.79	46,000	60%	22,247.07
Radio Maintenance	516.79	5,813.99	10,500	55%	8,413.54
USGS Meter Station	0.00	0.00	7,800	0%	0.00
Ruth Lake License	0.00	1,500.00	1,500	100%	1,500.00
A&G					
Accounting Services	2,443.00	11,133.00	\$ 25,000	45%	14,011.03
Legal	14,487.19	37,353.69	28,000	133%	4,017.93
Professional Services	37.75	6,924.43	20,000	35%	1,956.32
Insurance	28,138.00	88,698.75	105,000	84%	86,179.50
Telephone/Internet	4,982.50	44,335.43	51,000	87%	45,699.58
Office Building Maintenance	1,291.06	19,356.94	18,500	105%	14,520.31
Office Expense	3,399.71	36,328.56	54,000	67%	41,998.59
Travel & Conference	1,398.00	7,163.07	22,000	33%	4,940.85
Dues & Subscriptions	181.92	16,193.51	11,300	143%	15,238.78
CSDA Dues	0.00	8,039.00	5,200	155%	0.00
Technical Training	3,210.00	5,136.31	14,500	35%	5,815.54
General Manager Training	0.00	997.08	5,000	20%	0.00
Safety Apparel	0.00	3,307.08	3,000	110%	0.00
County Tax Fee	0.00	9,709.00	21,000	46%	9,522.00
County Property Taxes	0.00	998.60	1,100	91%	998.60
LAFCO	0.00	5,790.07	7,000	83%	7,447.28
Regulatory Agency Fees	0.00	66,299.53	76,000	87%	48,143.34
Ruth Lake Programs	0.00	0.00	5,000	0%	0.00
Miscellaneous	423.78	8,792.78	11,500	76%	16,627.00
TOTAL SERVICE/SUPPLIES W/OUT POWER	\$81,643.88	\$678,936.19	\$814,900	83%	\$527,664.58
POWER					
Essex Pacific Gas & Electric	\$41,776.16	\$448,505.96			\$459,593.80
Fuel For 2 MW Generator	0.00	0.00			2,513.59
Subtotal Essex Pumping	\$41,776.16	\$448,505.96	\$595,803	75%	\$462,107.39
All Other Pacific Gas & Electric	8,634.24	58,932.22	71,662		63,947.76
POWER EXPENSE SUBTOTAL	\$50,410.40	\$507,438.18	\$667,465	76%	\$526,055.15
TOTAL SERVICE/SUPPLIES WITH POWER	\$132,054.28	\$1,186,374.37	\$1,482,365.00	80%	\$1,053,719.73
PROJECTS, FIXED ASSETS & CONSULTING SERVICES					
	\$161,759.37	\$2,066,527.12	\$7,563,490.00	27%	\$2,355,405.81
TOTAL OPERATING	\$584,270.68	\$5,997,571.67	\$12,788,131.00	47%	\$6,070,708.26
DEBT SERVICE - SRF LOAN (1)	\$0.00	\$273,668.48	\$547,337.00	50%	\$273,668.48
TOTAL EXPENDITURES	\$584,270.68	\$6,271,240.15	\$13,335,468.00	47%	\$6,344,376.74
DEBT SERVICE - US Bank	\$0.00	\$162,188.10	\$162,200.00	100%	\$162,188.10

Humboldt Bay Municipal Water District

Salary & Employee Benefit Expenditures

March 2018

Ordinary Income/Expense	Mar 18	Budget	% of Budget	Jul '17 - Mar ...	YTD Budget	% of Budget	Annual Bud...
SALARIES & EMPLOYEE BENEFITS							
00 · PAYROLL EXPENSE							
11 · Salaries & Wages							
01 · Wages-Regular	160,012.85	165,993.50	96.4%	1,388,287.84	1,493,941.50	92.9%	1,991,922.00
02 · Wages-Part-time	1,529.95	4,238.89	36.1%	28,195.79	39,972.22	70.5%	53,600.00
03 · Wages-Overtime	1,652.66	1,800.00	91.8%	16,624.81	18,600.00	89.4%	24,000.00
04 · Wages-Standby	5,737.23	7,500.00	76.5%	58,695.57	67,500.00	87.0%	90,000.00
05 · Wages-Holiday	739.36	800.00	92.4%	9,392.56	9,200.00	102.1%	11,000.00
07 · Shift Differential	688.50	1,000.00	68.9%	6,855.10	9,000.00	76.2%	12,000.00
08 · Director Compensation	1,920.00	2,170.83	88.4%	16,640.00	19,537.51	85.2%	26,050.00
09 · Secretarial Fees	262.50	262.50	100.0%	2,362.50	2,362.50	100.0%	3,150.00
Total 11 · Salaries & Wages	172,543.05	183,765.72	93.9%	1,527,054.17	1,660,113.73	92.0%	2,211,722.00
Z20 · Employer P/R Tax Expense	13,293.09	14,725.59	90.3%	122,387.53	132,960.23	92.0%	177,137.00
Total 00 · PAYROLL EXPENSE	185,836.14	198,491.31	93.6%	1,649,441.70	1,793,073.96	92.0%	2,388,859.00
158 · EMPLOYEE BENEFITS							
E.B. - Medical & Life							
162 · Employee Medical & Li...	51,636.38	56,231.33	91.8%	529,023.96	506,082.01	104.5%	674,776.00
173 · HSA	4,736.53	416.67	1,136.8%	27,058.67	3,749.99	721.6%	5,000.00
162a · Retiree Medical	5,354.05	5,825.67	91.9%	66,420.18	52,430.99	126.7%	69,908.00
Total E.B. - Medical & Life	61,726.96	62,473.67	98.8%	622,502.81	562,262.99	110.7%	749,684.00
E. B. - Dental	2,631.48	3,370.50	78.1%	26,190.10	30,334.50	86.3%	40,446.00
E. B. - Vision	593.18	631.00	94.0%	5,764.35	5,679.00	101.5%	7,572.00
E. B. - Retirement Benefits							
164 · 457b District Contribu...	2,550.00	2,550.00	100.0%	22,950.00	22,950.00	100.0%	30,600.00
PERS Expenses	35,729.27	36,345.83	98.3%	305,669.09	327,112.51	93.4%	436,150.00
Total E. B. - Retirement Benefits	38,279.27	38,895.83	98.4%	328,619.09	350,062.51	93.9%	466,750.00

Humboldt Bay Municipal Water District
Salary & Employee Benefit Expenditures

March 2018

	Mar 18	Budget	% of Budget	Jul '17 - Mar ...	YTD Budget	% of Budget	Annual Bud...
E. B. - Other Benefits							
159 · Workers' Comp. Ins.	0.00	0.00	0.0%	35,901.56	52,929.00	67.8%	70,572.00
168 · Long-Term Disability I...	1,314.79	1,442.92	91.1%	11,958.43	12,986.24	92.1%	17,315.00
172 · Employee EAP	75.21	89.83	83.7%	747.30	808.51	92.4%	1,078.00
Total E. B. - Other Benefits	1,390.00	1,532.75	90.7%	48,607.29	66,723.75	72.8%	88,965.00
Total 158 · EMPLOYEE BENEFITS	104,620.89	106,903.75	97.9%	1,031,683.64	1,015,062.75	101.6%	1,353,417.00
Total SALARIES & EMPLOYEE BEN...	290,457.03	305,395.06	95.1%	2,681,125.34	2,808,136.71	95.5%	3,742,276.00
Total Expense	290,457.03	305,395.06	95.1%	2,681,125.34	2,808,136.71	95.5%	3,742,276.00
Net Ordinary Income	-290,457.03	-305,395.06	95.1%	-2,681,125.34	-2,808,136.71	95.5%	-3,742,276.00

I. CAPITAL PROJECTS	MARCH EXPENSES	YTD TOTAL 3/31/2018	BUDGET	% OF BUDGET
A. Projects Charged to All Customers via Price Factor 2 (BWF)				
Ranney Collectors Communication Upgrade	\$0.00	\$0.00	\$3,250	0%
Collector 1, Pump 3 & 4 Isolation Valve & Expansion Joint Replacement	0.00	6,481.02	7,750	84%
Collector 1, Replacement of Pressure Relief Valve	0.00	0.00	6,000	0%
Replace Collector 1 - Pump 1.1 Funded by Current Budget	0.00	116,458.05	134,000	87%
Replace Collector 1 - Pump 1.4 Funded by Current Budget	0.00	122,020.80	110,000	111%
Collector 4 Replacement of Check Valves for 4-1, 4-2	28,416.16	28,416.16	30,250	94%
Purchase Vehicle Lift	13,964.60	13,964.60	17,250	81%
Superintendent Office Remodel	0.00	0.00	6,000	0%
Ruth Hydro Protective Relay Replacement - Phase 1	0.00	0.00	42,000	0%
Ruth Dam Access Road Culvert System	0.00	0.00	4,750	0%
SUBTOTAL A:	\$42,380.76	\$287,340.63	\$361,250	80%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)				
TRF Video Surveillance System	\$0.00	\$0.00	\$23,000	0%
TRF Work Area - Phase 2	3,132.94	3,132.94	5,500	57%
TRF Storage Area Slab & Drainage System	0.00	0.00	7,500	0%
SUBTOTAL B:	\$3,132.94	\$3,132.94	\$36,000	9%
C. Projects Funded by Other Sources (BWF)				
Blue Lake/FGCSD River Crossing Funded by Prop 84 & FEMA Grants & Adv. Charges	\$68,840.51	\$333,812.67	\$3,579,750	9%
Surge Tower Replacement - CEQA, Bidding & Construction Assistance] Funded by FEMA C	382.00	46,567.69	960,000	5%
1 Mg Domestic Water Reservoir Roof & Painting] Funded by Advanced Charges	0.00	536,338.63	625,000	86%
Replace Collector 1 - Pump 1.1 Funded by Advanced Charges	0.00	50,000.00	50,000	100%
Replace Collector 1 - Pump 1.4 Funded by Advanced Charges	0.00	50,000.00	50,000	100%
SUBTOTAL C:	\$69,222.51	\$1,016,718.99	\$5,264,750	19%
TOTAL CAPITAL PROJECTS:	\$114,736.21	\$1,307,192.56	\$5,662,000	23%

While the total projects expenditures are budgeted at \$7,563,490, the actual customer charges are \$1,550,945. Capital Projects C, Professional & Consulting Services C and Industrial System Projects C is the listing of Projects Funded by Other Sources. In addition the Ranney Collectors Replacement projects have been partially funded with financing over 10 years. Only the annual debt service for these financed projects are being charged to the wholesaler.

I. FIXED ASSETS		MARCH		YTD TOTAL		% OF	
		EXPENSES	3/31/2018	BUDGET	BUDGET	BUDGET	BUDGET
A. Projects Charged to All Customers via Price Factor 2 (BWF)							
Essex- Replace Two Administrative Computers	\$204.91	\$4,966.05	\$6,250	79%			
Spare Bottles for SCBAs	0.00	1,580.00	1,500	105%			
Wall Mounted EyeWash Station	0.00	2,001.83	2,250	89%			
Fall Protection Equipment	1,648.84	4,034.46	4,000	101%			
Electrical Safety Equipment	0.00	1,425.32	3,000	48%			
Control System Computer Backup Devices	1,917.39	1,917.39	3,250	59%			
Customer Service - Metal Detector	0.00	1,097.66	1,250	88%			
Customer Service - Dewatering Equipment	0.00	1,282.21	1,500	85%			
Replace Unit 7	0.00	0.00	43,000	0%			
Replace Unit 9	491.78	51,036.59	70,500	72%			
Replace District Portable Radios	0.00	4,352.03	4,750	92%			
Parts Cleaner - NonToxic Environmental Safe	0.00	2,168.92	2,000	108%			
Purchase Drone	0.00	0.00	3,000	0%			
Chlorine System PLC	0.00	0.00	6,000	0%			
AED Ruth Hydro	0.00	1,213.95	1,500	81%			
Eureka - Replace Computer	0.00	0.00	3,000	0%			
Replace Business Manager Desk	0.00	3,323.27	3,000	111%			
Replace/Upgrade Eureka Computer Main Server	0.00	15,736.14	30,000	52%			
Screens for Board of Directors	0.00	0.00	15,000	0%			
SUBTOTAL A:	\$4,262.92	\$96,135.82	\$204,750	47%			
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)							
TRF Spare Parts Inventory	\$0.00	\$4,196.65	\$4,500	93%			
Chemical Transfer Pump	0.00	1,602.63	1,500	107%			
SUBTOTAL B:	\$0.00	\$5,799.28	\$6,000	97%			
TOTAL FIXED ASSETS PROJECTS:	\$4,262.92	\$101,935.10	\$210,750	48%			

II. MAINTENANCE PROJECTS		MARCH	YTD TOTAL	% OF	
A. Charged to All Customers via Price Factor 2 (BWF)		EXPENSES	3/31/2018	BUDGET	
Collector 2 Meter Calibration		\$0.00	\$0.00	\$2,000	0%
Pipeline Maintenance		1,788.83	2,060.55	13,500	15%
12KV Electric System Maintenance		0.00	0.00	4,000	0%
Mainline Meter Flow Calibration		0.00	0.00	4,000	0%
Replace HCSD Meter		0.00	6,590.90	8,250	80%
Technical Support & Software Updates to Include Control System		985.95	9,156.34	21,000	44%
Generator Service		0.00	710.22	3,500	20%
Hazard & Diseased Tree Removal		0.00	0.00	6,250	0%
Catholic Protection		0.00	0.00	6,500	0%
Maintenance Emergency Repair		2,645.80	18,237.22	50,000	36%
Fleet Paint Repairs		0.00	1,223.73	5,000	24%
Lead Free Brass Inventory		0.00	6,786.46	7,500	90%
Essex Fire Alarm System Upgrade		0.00	7,722.63	8,000	97%
Essex Office Single Pane Windows Replacement		0.00	0.00	2,750	0%
Samoa Booster Pump Station Expansion Joint Replacement		5,061.09	5,061.09	6,000	84%
Construction Equipment Tire Replacement		0.00	0.00	3,750	0%
Asphalt Repair		0.00	3,375.56	7,000	48%
Ruth Lake - Brush Abatement		0.00	0.00	5,540	0%
Licensed Timber Operator		0.00	3,102.45	5,000	62%
Picketts Peak Radio System Modifications		0.00	7,617.21	9,000	85%
Ruth Spillway Review & Improvement		603.00	54,694.96	50,000	109%
Ruth Hydro - Repair PRV Discharge Pipe		0.00	0.00	7,500	0%
SUBTOTAL A:		\$11,084.67	\$126,339.32	\$ 236,040	54%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)					
TRF - Generator Service		\$0.00	\$189.40	\$500	38%
TRF Limitorque Valve Retrofit Supplies - Phase 1		0.00	16,210.06	16,750	97%
TRF- Removal of Sodium Hydroxide and waste Aluminum Sulfate		0.00	0.00	14,750	0%
SUBTOTAL B:		\$0.00	\$16,399.46	\$ 32,000	51%
TOTAL MAINTENANCE PROJECTS:		\$11,084.67	\$142,738.78	\$ 268,040	53%

III. PROFESSIONAL & CONSULTING SERVICES	MARCH EXPENSES	YTD TOTAL 3/31/2018	BUDGET	% OF BUDGET
A. Charged to All Customers via Price Factor 2 (BWF)				
Collector 2 Underground Power & Fiber Optic Line	\$0.00	\$0.00	\$24,000	0%
Collector 1 Transformer & Electrical Evaluation	0.00	0.00	5,000	0%
Collector 1 Pump & Motor Upgrades	0.00	0.00	6,000	0%
Essex Control Building Expansion Plans & Specifications	0.00	0.00	44,000	0%
Crane Testing/Certification	0.00	6,507.14	7,500	87%
Control/SCADA Software Training	8,759.98	31,673.00	30,250	105%
Technical Training	0.00	3,553.86	7,500	47%
Backflow Tester Training	0.00	2,370.00	2,000	119%
HazMat Training	0.00	5,073.00	5,500	92%
Transformer Oil Testing	0.00	0.00	4,500	0%
GIS/Facilities Information System	0.00	0.00	12,000	0%
GIS/Facilities Information System - Ruth	0.00	0.00	4,750	0%
Essex Mad River Cross-Sectional Survey	0.00	9,345.75	10,000	93%
Essex Protective Relay Testing	0.00	11,195.00	12,000	93%
Mad River Watershed Regulatory Compliance	2,778.00	3,278.00	50,000	7%
Dune Monitoring Program - Component of Coastal Conservancy Climate Ready Grant	0.00	2,000.00	2,000	100%
Grant Applications	5,643.25	13,676.50	20,000	68%
Public Education	0.00	5,000.00	5,000	100%
Water Resources Planning	0.00	1,345.50	5,000	27%
Upgrade Accounting System	0.00	28,843.00		
Ruth Protective Relay Testing	0.00	11,565.00	12,000	96%
FERC Dam Safety Surveillance & Monitoring Report(DSSMR)/FERC Dam Safety Review (Pa	2,718.00	2,997.75	3,000	100%
FERC Chief Dam Safety Engineer	0.00	687.50	10,000	7%
FERC Matthews Dam Monument Survey	0.00	7,771.00	9,000	86%
FERC Matthews Dam Spillway Wall Survey	0.00	9,700.00	11,000	88%
FERC Matthews Dam Left Abutment Monitoring Survey	0.00	9,580.50	11,000	87%
Matthews Dam River Cross-Sectional Survey	0.00	3,843.50	5,000	77%
FERC Spillway Probable Failure	2,713.50	2,713.50		
FERC Geologic Spillway Assessment	0.00	0.00		
SUBTOTAL A:	\$22,612.73	\$172,719.50	\$318,000	54%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)				
Chlorine System Maintenance	\$0.00	\$9,869.94	\$16,100	61%
SUBTOTAL B:	\$0.00	\$9,869.94	16,100	61%
C. Projects Funded by Other Sources (BWF)				
Quaega Grant/RLCSD] CA Dept of Boating & Waterways	\$0.00	\$0.00	9,150	0%
Industrial System Single Line Mad River Slough Assessment] District Reserves	0.00	0.00	24,000	0%
Industrial & Domestic System Intertie] District Reserves	0.00	0.00	11,000	0%
SUBTOTAL C:	\$0.00	\$0.00	44,150	0%
TOTAL PROFESSIONAL & CONSULTING SERVICES	\$22,612.73	\$182,589.44	\$378,250	48%

IV. INDUSTRIAL SYSTEM PROJECTS		MARCH	YTD TOTAL	% OF	
A. Charged to All Customers via Price Factor 2 (BWF)		EXPENSES	3/31/2018	BUDGET	
- Maintain Water Supply to Industrial Pump Station (Pump Station 6) During Low-Flow Months		\$1,111.50	\$1,111.50	\$13,250	8%
SUBTOTAL A.		\$1,111.50	\$1,111.50	13,250	8%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)					
SUBTOTAL B.		\$0.00	\$0.00	0	0%
C. Projects Funded by Other Sources (BWF)					
Industrial Reservoir Painting, Specs, Bidding & Construction Management		\$0.00	\$0.00	\$64,000	0%
SUBTOTAL C:		\$0.00	\$0.00	64,000	0%
TOTAL INDUSTRIAL SYSTEM PROJECTS:		\$1,111.50	\$1,111.50	77,250.00	1%

CARRY-OVER PROJECTS FROM 2016/17		MARCH	YTD TOTAL	% OF	
I. CAPITAL PROJECTS		EXPENSES	3/31/2018	BUDGET	
A. Charged to All Customers via Price Factor 2 (BWF)					
Mainline Valve Replacement		\$0.00	\$0.00	\$100,000	0%
New Valve below 1 Mg Domestic Reservoir		0.00	0.00	30,000	0%
SUBTOTAL A:		\$0.00	\$0.00	130,000	0%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)					
SUBTOTAL B:		\$0.00	\$0.00	0	0%
C. Projects Funded by Other Sources (BWF)					
SCADA System Upgrade - Phase 2] Advanced Charges		\$0.00	\$94,110.64	\$301,000	31%
Replace Ruth Bunkhouse] Advanced Charges		0.00	0.00	403,500	0%
SUBTOTAL C:		\$0.00	\$94,110.64	704,500	13%
C. Projects Funded by Other Sources (DWTF)					
TRF SCADA System Upgrade - Phase 2] Advanced Charges		\$3,181.43	\$223,436.38	\$100,000	223%
SUBTOTAL C:		\$3,181.43	\$223,436.38	100,000	223%
TOTAL CAPITAL PROJECTS		\$3,181.43	\$317,547.02	934,500	34%

Carryover Projects continued					
I. FIXED ASSETS					
A. Projects Charged to All Customers via Price Factor 2 (BWF)					
Purchase Shop Manual & Diagnostic Equipment to service Heavy Fleet Vehicles	\$0.00	\$0.00	\$0.00	\$5,000	0%
SUBTOTAL A:	\$0.00	\$0.00	\$0.00	5,000	0%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)					
SUBTOTAL B:	\$0.00	\$0.00	\$0.00	0	0%
TOTAL FIXED ASSETS	\$0.00	\$0.00	\$0.00	5,000	0%
II. MAINTENANCE PROJECTS					
A. Charged to All Customers via Price Factor 2 (BWF)					
Repair/Upgrade Line Shed 6	\$874.29	\$4,045.11	\$4,045.11	\$15,000	27%
SUBTOTAL A:	\$874.29	\$4,045.11	\$4,045.11	15,000	27%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)					
SUBTOTAL B:	\$0.00	\$0.00	\$0.00	0	0%
TOTAL MAINTENANCE PROJECTS	\$874.29	\$4,045.11	\$4,045.11	15,000	27%
III. PROFESSIONAL & CONSULTING SERVICES					
A. Charged to All Customers via Price Factor 2 (BWF)					
CIP Financial Plan Update	\$0.00	\$3,383.88	\$3,383.88	\$7,500	45%
SUBTOTAL A:	\$0.00	\$3,383.88	\$3,383.88	7,500	45%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)					
SUBTOTAL B:	\$0.00	\$0.00	\$0.00	0	0%
TOTAL PROFESSIONAL & CONSULTING SERVICES	\$0.00	\$3,383.88	\$3,383.88	7,500	45%
IV. INDUSTRIAL SYSTEM PROJECTS					
A. Charged to All Customers via Price Factor 2 (BWF)					
- Maintain Water Supply to Industrial Pump Station (Pump Station 6) During Low-Flow Months	\$3,895.62	\$5,983.73	\$5,983.73	\$5,200	115%
SUBTOTAL A:	\$3,895.62	\$5,983.73	\$5,983.73	5,200	115%
B. Projects Charged to Municipal Customers via Price Factor 2 (DWTF)					
SUBTOTAL B:	\$0.00	\$0.00	\$0.00	0	0%
TOTAL INDUSTRIAL SYSTEM PROJECTS:	\$3,895.62	\$5,983.73	\$5,983.73	5,200	115%
2016/17CARRYOVER PROJECTS TOTAL	\$7,951.34	\$330,959.74	\$330,959.74	967,200	34%
PROJECTS GRAND TOTAL:	\$161,759.37	\$2,066,527.12	\$2,066,527.12	\$7,563,490	27%
Less Projects Funded from Other Sources (Grants/Loans/Advanced Charges/Reserves)					
	\$72,403.94	\$1,334,266.01	\$1,334,266.01	\$6,174,745	22%
PF2 Project Total Charged to Customers excluding Debt Service (US Bank)					
	\$89,355.43	\$732,261.11	\$732,261.11	\$1,388,745	53%

Humboldt Bay Municipal Water District Expenses by Vendor Detail

March 2018

SECTION J2a, PAGE NO. 15

Memo	Amount
101Netlink	
Ruth Data Link/Internet	-170.00
Total 101Netlink	-170.00
ACWA/JPIA	
Leadership Training - M. Palmero	-1,495.00
Leadership Training - L. Raschein	-1,495.00
Property Program Renewal for 4/1/2018 - 4/1/2019	-21,103.50
Property Program Renewal for 4/1/2018 - 4/1/2019	-3,952.06
Property Program Renewal for 4/1/2018 - 4/1/2019	-2,358.19
Property Program Renewal for 4/1/2018 - 4/1/2019	-724.25
Total ACWA/JPIA	-31,128.00
Advanced Security Systems	
Troubleshoot and repair TRF Security System	-162.33
Essex Quarterly Alarm System Monitoring	-76.50
Total Advanced Security Systems	-238.83
AirGas NCN	
Fall Protection Equipment	-1,648.84
Total AirGas NCN	-1,648.84
Asbury Environmental Services	
dispose of Ruth Hydro waste oil	-75.00
Total Asbury Environmental Services	-75.00
AT & T	
Ruth HQ	-15.74
TRF	-23.42
Essex office	-382.38
Eureka office	-6.54
Ruth Hydro	-246.31
Valve Building Samoa	-101.53
Ruth HQ	
TRF	
Essex office	
Eureka office	-167.63
Ruth Hydro	
Valve Building Samoa	
Total AT & T	-943.55
AT&T	
Eureka/Essex Landline	-35.14
Arcata/Essex Landline	-35.14
Samoa/Essex Landline	-235.66
Blue Lake Meter Signal	-60.68
Eureka Office Modem	-152.96
Eureka Office Alarm	-39.84
Samoa Booster Pump	-80.58
Valve Building	-152.96
Eureka Office	-328.34
Essex Office	-950.10
TRF	-152.52
Ruth Dataline	-148.72
Total AT&T	-2,372.64
AT&T Advertising Solutions	
white page listing	-21.00
Total AT&T Advertising Solutions	-21.00
ATS Communications	
Fieldbrook-Glendale CSD Firewall Support Renewal	-836.00
Total ATS Communications	-836.00
Buckles-Smith	
TRF SCADA System Upgrade	-3,181.43
Control System Training 3 employees	-7,960.00

Humboldt Bay Municipal Water District Expenses by Vendor Detail

March 2018

SECTION Jaw PAGE NO. 16

Memo	Amount
Total Buckles-Smith	-11,141.43
Campton Electric Supply	
Eureka office maintenance	-5.95
Total Campton Electric Supply	-5.95
Chemtrac Systems, Inc	
TRF Particle Counter calibration/repair	-1,170.00
Total Chemtrac Systems, Inc	-1,170.00
Citi Cards	
Eureka office supplies	-19.98
Total Citi Cards	-19.98
City of Eureka	
Eureka office water/sewer	-66.98
Total City of Eureka	-66.98
Coastal Business Systems Inc.	
Eureka office copy and fax machine	-908.73
Total Coastal Business Systems Inc.	-908.73
Davidson Brothers Lock & Safe	
new Unit 9 keys	-10.80
Total Davidson Brothers Lock & Safe	-10.80
Eureka Oxygen	
cylinder rental	-101.32
Total Eureka Oxygen	-101.32
Eureka Readymix	
sand for inventory	-221.87
Total Eureka Readymix	-221.87
Fastenal Company	
respirator particulate filters	-47.78
Total Fastenal Company	-47.78
FEDEX	
return ACWA/JPIA training tape	-8.49
ship equipment for repair	-13.96
ship TRF equipment for calibration	-36.15
Total FEDEX	-58.60
Fernbridge Tractor & Equipment Company	
John Deere equipment safety labels	-56.47
Total Fernbridge Tractor & Equipment Company	-56.47
Frontier Communications	
Ruth HQ	-51.20
Ruth Hydro/Ruth Dataline	-161.13
Total Frontier Communications	-212.33
GAN Conferencing	
Conference call re FERC PFMA	-8.32
Total GAN Conferencing	-8.32
Genesis Computer Systems, Inc	
Essex Control System Back-up Devices	-1,917.39
Total Genesis Computer Systems, Inc	-1,917.39
GHD	
(96504) Blue Lake/Fieldbrook River Crossing	-67,589.20
(96190) Surge Tower Replacement	-382.00
(96502) General Engineering - Ruth Spillway Assessment	-603.00

Humboldt Bay Municipal Water District Expenses by Vendor Detail

March 2018

SECTION J20 PAGE NO. 17

Memo	Amount
(96502) General Engineering - Eureka	-804.00
(96502) General Engineering - FERC Spillway Probable Failure	-2,713.50
(96502) General Engineering - Essex	-2,398.50
(96502) General Engineering - Channel Control	-1,111.50
(96503) Grant Application Submittal - Reservoir Seismic Retrofit	-5,643.25
(96501) FERC DSSMR	-2,718.00
Total GHD	-83,962.95
Hensel Hardware	
TRF sample station	-16.86
Total Hensel Hardware	-16.86
Hensell Materials	
Repair and upgrade Line Shed 6	-874.29
Total Hensell Materials	-874.29
Henwood Associates, Inc	
Consultant Services Agreement	-1,244.59
Total Henwood Associates, Inc	-1,244.59
Humboldt Redwood Company, LLC	
Mt Pierce Lease site	-266.79
Total Humboldt Redwood Company, LLC	-266.79
Industrial Electric	
Emergency Repairs to TRF Generator	-190.02
Total Industrial Electric	-190.02
JTN Energy, LLC	
Consultant Services Agreement	-1,244.59
Total JTN Energy, LLC	-1,244.59
Keenan Supply	
Pipeline maintenance	-1,417.28
Collector 4 Replacement of Check Vavles for Pump 4.1 and 4.2	-28,416.16
Total Keenan Supply	-29,833.44
Kernen Construction	
base rock for inventory	-341.30
Total Kernen Construction	-341.30
Kevins Mobile Repair Service	
install vehicle lift	-700.00
Total Kevins Mobile Repair Service	-700.00
Les Schwab Tire Center	
tire chains for JD Backhoe - snow removal at Ruth HQ	-89.25
Total Les Schwab Tire Center	-89.25
Mad River Union	
position advertisement for Maintenance Work	-50.00
Total Mad River Union	-50.00
Mario Palmero	
Essex office supplies	-60.22
Employee recognition	-16.99
Safety meeting	-24.13
TRF Stop Watch	-16.20
Eureka office building maintenance	-4.80
lab supplies	-9.27
Total Mario Palmero	-131.61
Miller Farms Nursery	
2" Honda trash pump maintenance	-11.84
TRF Generator cleanup & repair	-424.02

Humboldt Bay Municipal Water District Expenses by Vendor Detail

March 2018

SECTION J20 PAGE NO. 18

Memo	Amount
Emergency Repair TRF Generator	-235.70
Total Miller Farms Nursery	-671.56
Mission Linen maintenance supplies	-142.61
Uniform Rental	-469.86
Total Mission Linen	-612.47
Mitchell, Brisso, Delaney & Vrieze Legal services Blue Lake/FBGCSO River Crossing Project	-186.00
Legal Services Eureka - February 2018	-93.00
Total Mitchell, Brisso, Delaney & Vrieze	-279.00
Munnell & Sherrill, Inc. pipeline maintenance	-371.55
Emergency Repairs to TRF Generator	-101.34
Total Munnell & Sherrill, Inc.	-472.89
Napa Auto Parts purchase vehicle lift	-13,210.91
equipment maintenance	-75.95
Unit 7 annual service	-36.17
Unit 5 annual service	-22.40
vehicle lift installation	-53.69
Total Napa Auto Parts	-13,399.12
NEAC 2018 Workplace Legal Updates - 2 employees	-220.00
Total NEAC	-220.00
Network Management Services Essential Care Computer Support Service for Eureka office	-368.10
Guard-IT Security Service for Eureka office	-139.99
Recover-IT Backup Solution	-438.00
Domain Management	-3.00
Umbrella Security	-30.00
Total Network Management Services	-979.09
North Coast Cleaning Services, Inc Eureka office building maintenance	-545.00
Total North Coast Cleaning Services, Inc	-545.00
North Coast Laboratories lab tests	-845.00
lab tests - TRF Generator	-360.00
Total North Coast Laboratories	-1,205.00
Northern California Safety Consortium membership fee	-50.00
Total Northern California Safety Consortium	-50.00
Occupational Health Services of Mad River Annual Hearing and Respirator Exams	-1,350.00
Annual Hearing and Respirator Exams	-75.00
Annual Hearing and Respirator Exams	-75.00
Total Occupational Health Services of Mad River	-1,500.00
Pacific Gas & Electric Co. Eureka Office	-516.18
Jackson Ranch Rectifier	-17.72
299 Rectifier	-93.83
West End Rd. Rectifier	-121.30
TRF	-7,381.87
Ruth Valve Control	-26.64
Ruth Hydro	-65.48
Samoa Booster Pump Station	-276.40
Samoa Dial Station	-54.66

Humboldt Bay Municipal Water District Expenses by Vendor Detail

March 2018

SECTION J20, PAGE NO. 19

Memo	Amount
Essex Pumping 1/1/2018 to 1/31/2018	-41,776.16
Ruth Bunkhouse	-80.16
Total Pacific Gas & Electric Co.	-50,410.40
Pacific Paper Co.	
Eureka office supplies	-301.09
Total Pacific Paper Co.	-301.09
Pioneer Law Group, LLP	
Legal Services	-14,332.50
Total Pioneer Law Group, LLP	-14,332.50
Pitney Bowes	
postage meter supplies	-87.60
refill postage meter	-500.00
postage meter lease	-209.54
Total Pitney Bowes	-797.14
Platt Electric Supply	
TRF lighting maintenance	-194.76
Total Platt Electric Supply	-194.76
R.J. Ricciardi, Inc, CPAs	
Annual Financial Audit FY16/17	-2,443.00
Total R.J. Ricciardi, Inc, CPAs	-2,443.00
Recology Arcata	
Essex Garbage Service	-383.07
Total Recology Arcata	-383.07
Recology Humboldt County	
Eureka office garbage/recycling service	-85.40
Total Recology Humboldt County	-85.40
Renner Petroleum	
TRF Generator Repair & Cleanup	-285.30
cardlock fuel - pumping & control	-403.21
cardlock fuel - water quality	-403.21
cardlock fuel - maintenance	-403.21
cardlock fuel - customer service	-403.22
vehicle spill kits	-187.67
TRF Emergency General Repair	-201.81
Unit 5 service	-361.03
Total Renner Petroleum	-2,648.66
Ryan Chairez	
reimbursement for road service - Unit 2	-70.00
Total Ryan Chairez	-70.00
Sitestar Nationwide Internet	
Essex Internet	-52.90
Total Sitestar Nationwide Internet	-52.90
Staples	
Essex office supplies	-43.48
Total Staples	-43.48
Stillwater Sciences	
professional assistance - Fish habitat/biologist consultation	-37.75
professional assistance - Fish habitat/biologist consultation regarding chann...	-3,895.62
professional assistance - Fish habitat/biologist consultation - yellow legged f...	-2,778.00
Total Stillwater Sciences	-6,711.37
Sudden Link	
TRF internet	-105.38
Eureka office internet	-204.95

Humboldt Bay Municipal Water District Expenses by Vendor Detail

March 2018

SECTION 520 PAGE NO. 20

Memo	Amount
Essex internet	-124.95
Fieldbrook-Glendale CSD Internet	-271.02
Total Sudden Link	-706.30
Thatcher Company, Inc replenish TRF chemicals	-6,237.32
replenish chlorine	-2,333.45
Total Thatcher Company, Inc	-8,570.77
The Mill Yard TRF Generator repair/cleanup	-56.40
TRF Work Area - Phase 2	-198.98
Total The Mill Yard	-255.38
The Times-Standard notice invitation for bid - Blue Lake/Fieldbrook-Glendale CSD river crossing	-1,065.31
Total The Times-Standard	-1,065.31
Thomas Home Center Upgrade TRF Work Area - Phase 2	-357.97
Total Thomas Home Center	-357.97
Thrifty Supply TRF chemical pump repair	-89.51
replace expansion joints at Samoa Booster Pump Station	-5,061.09
TRF Emergency Generator Repair	-126.18
Total Thrifty Supply	-5,276.78
Trinity County General Services Pickett Peak site lease	-250.00
Total Trinity County General Services	-250.00
Trinity County Solid Waste Ruth HQ dump fees	-0.50
Ruth Hydro dump fees	-0.50
Total Trinity County Solid Waste	-1.00
Trinity Diesel, Inc Unit 5 service	-53.14
Total Trinity Diesel, Inc	-53.14
U.S. Bank Corporate Payment System Technical Support and Software update new Unit 9	-149.95
TRF Work Area Phase 2	-335.59
TRF Work Area Phase 2	-867.99
TRF Work Area Phase 2	-1,708.00
Replace two Essex Administrative Computers	-104.92
Replace two Essex Administrative Computers	-99.99
SCBA Bottle Storage rack	-258.68
update SDS binders	-60.08
Spillway inspection	-68.47
TRF Chemical pump repair	-257.41
vehicle Emergency response signs	-182.69
Professional Web Hosting Annual Support	-181.92
ACWA Conference Registration - S. Woo	-699.00
meeting with attorney	-61.69
ACWA Conference Registration - J. Friedenback	-699.00
new Unit 9	-145.39
SCADA/Control Software Training	-399.99
SCADA/Control Software Training	-399.99
Essex safety meeting	-24.99
Essex office supplies	-83.32
Fieldbrook supplies	-32.52
Essex computer supplies	-38.10
Eureka office restroom signs	-122.36
automated past due calls - Humboldt Bay Retail	-13.50
Supervisors meeting	-129.50

Humboldt Bay Municipal Water District Expenses by Vendor Detail

March 2018

SECTION JW PAGE NO. 21

Memo	Amount
ebay listing of surplus equipment for sale	-132.30
Total U.S. Bank Corporate Payment System	-7,257.34
United Rentals, Inc	
TRF Generator repair/cleanup	-866.84
Total United Rentals, Inc	-866.84
USA Blue Book	
TRF valve ID tags	-116.05
Total USA Blue Book	-116.05
USTI, Inc	
eBill charges Humboldt Bay retail	-3.52
eBill charges Fieldbrook-Glendale CSD	-7.84
Total USTI, Inc	-11.36
Verizon Wireless	
General Manager	-40.18
Customer Service	-42.42
Operations 2	-0.38
Electrician	-0.22
Unit 6	-16.53
Unit 6	-16.53
Opererations 1	-0.22
Total Verizon Wireless	-116.48
VOID	
Total VOID	0.00
William B. Newell	
expense reimbursement - mail Ruth Hydro oil samples	-13.25
expense reimbursement - Unit 6 maintenance	-17.37
expense reimbursement - Unit 6 maintenance	-17.38
expense reimbursement - cell phone protection	-21.49
expense reimbursement - cell phone protection	-21.49
expense reimbursement postage for replacing Ruth HQ shop lighting	-121.48
Total William B. Newell	-212.46
TOTAL	-295,852.58

OPERATIONS

Memo to: HBMWD Board of Directors
From: Dale Davidsen, Superintendent
Date: April 4, 2018
Subject: Essex/Ruth March 2018 Operational Report

SECTION J3a, PAGE NO. 1

Upper Mad River, Ruth Lake, and Hydro Plant

1. The flow at Mad River above Ruth Reservoir (Zenia Bridge) was 170cfs on March 1st. The high flow for the month was on March 22 at 1236cfs. On March 31 the flow was back down to 363cfs. For comparison, in March 2017, the high flow was on March 25th at 1,110 cfs and the low flow was on March 4th at 259 cfs.
2. The conditions at Ruth Lake for the month of February were as follows:
 - a. The lake level on March 31st was 2655.12 feet which is:
 1. 102 % of lake capacity (100% is spilling over spillway: 2,654)
 2. 0.34 feet lower than February 28st, 2018
 3. 0.12 feet lower than March 31th, 2017
 4. 0.01 feet higher than the ten year average
 5. 1.12 feet above the spillway
3. There was 11.29 inches of recorded rainfall for March 2018 at Ruth Headquarters.
4. Ruth Hydro produced 873,600 kWh in March with 5 shutdowns and 23,662 kWh lost power.
5. The high discharge flow from the lake for the month was 1320.3 cfs on March 24th and the low release flow from the lake was 102.9 cfs on March 3rd.

Lower Mad River, Winzler Control, and TRF

6. The river at Winzler Control Center reached a high recorded flow of 7750 cfs and a level of 26.0 feet on March 24th. The low river flow was on March 7th with a flow of 1150 cfs and a level of 23.2 feet.
7. The domestic water conditions were as follows:
 - a. The monthly turbidity average was 0.12 NTU, which meets Public Health Secondary Standards.
 - b. For the month of March we pumped 242.01 million gallons at an average of 7.741 MGD.
 - c. The maximum metered daily municipal customer use was 8.325 MGD on March 30th.
8. The Turbidity Reduction Facility ran 29 days in March. The conditions were as follows:
 - a. Average monthly source water turbidity was 1.04 NTU.
 - b. Average monthly filtered water turbidity was 0.06 NTU.
 - c. We did 53 backwashes on the TRF filters in the month of March.

9. March 1st
 - a. Continued clean up at the TRF from generator failure.
 - b. Installed new HCSD meter. This was a joint effort with HCSD as they also needed to replace a valve in their system upstream from our meter.
10. March 2nd – I worked with SWRCB Regulators, Barry Sutter and Scott Gilbreath on the issue of the finished water turbidity going to go over a 1.0 NTU and getting the TRF back online ASAP.
11. March 3rd – Saturday - Larry and Jasson came in at 0400 to start slowly re-conditioning the filters, re-circulating the plant and getting the plant back online.
12. March 7th – Chlorine leak response training. This training was coordinated with the Humboldt County HazMat team and Arcata VFD.
13. March 19th – 20th - Interviewed for the Maintenance worker position. New hire will be starting April 16th.
14. March 19th – 23rd
 - a. Larry attended cross connection control training – A regulatory requirement to have someone certified on staff for cross connection control.
 - b. Jasson attended Backflow tester training. Required for anyone doing backflow testing
15. March 23rd – Operations took the CT reservoir offline for annual maintenance.
16. March 26th – 28th – Maintenance staff cleaned and inspected the CT reservoir.
17. March 28th – Maintenance staff repaired a leak on a service lateral in Fairhaven. 8:00 PM – 1:00 AM on the 29th.
18. Current Projects
 - a. Supervisors and I are working on the 18/19 budget development process.
 - b. SCADA upgrade – Telstar has not sent us the final completion letter so we have not closed out the project. We also have Change Order #2 in the amount of \$666.60. See Change Order on page J3a 3
 - c. Completed installation of shop vehicle lift.



CHANGE ORDER #2

Date 3/12/2018

**PROJECT: Humboldt Bay Municipal Water District
SCADA System Upgrade Project**

CONTRACTOR: Telstar Instruments Inc.

Description of Change:

In the contract, Page 17331-2, Part 2, Section 2.1-C-a-v it states 500GB hard drives. 500GB hard drives were not available at time of purchasing and 300GB drives were installed. At completion of the project the server drives are at 91% of capacity. To meet contract specification, Telstar is providing and installing four (4) 300GB drives, 2 in each server and the District is paying for one-third of the drives. Change order is for value of 100GB of drive storage space over contract specifications.

Adjustment of Contract Sum		Adjustment of Contract Completion Date	
Original Sum of Contract	\$ 495,000.00	Original Contract Completion Date	
Prior Adjustments	\$ (2,548.00)	Prior Adjustments in Calendar Days	0
Contract Sum Prior to this Change	\$ 492,452.00	Adjustment in Calendar Days for this Change Order	0
Adjustment for this Change	\$ 666.60	Revised Contract Completion Date	
Revised Contract Sum	\$ 493,118.60		

Note:

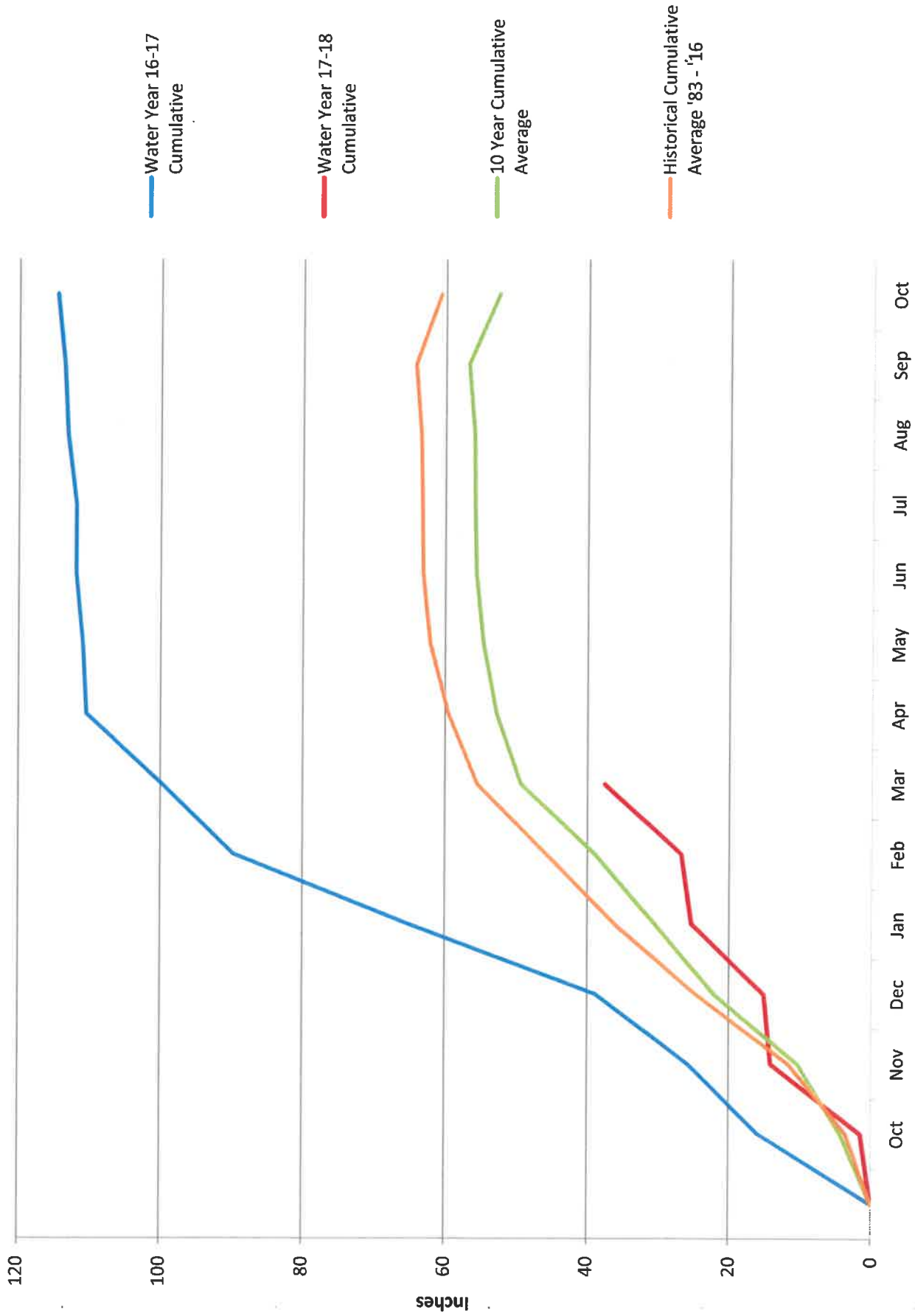
CONTRACTOR WAIVES ANY CLAIM FOR FURTHER ADJUSTMENTS FOR THE CONTRACT SUM RELATED TO THE ABOVE DESCRIBED CHANGE IN THE WORK.

RECOMMENDED BY: Dale A. Davidson DATE 3-12-18
Superintendent

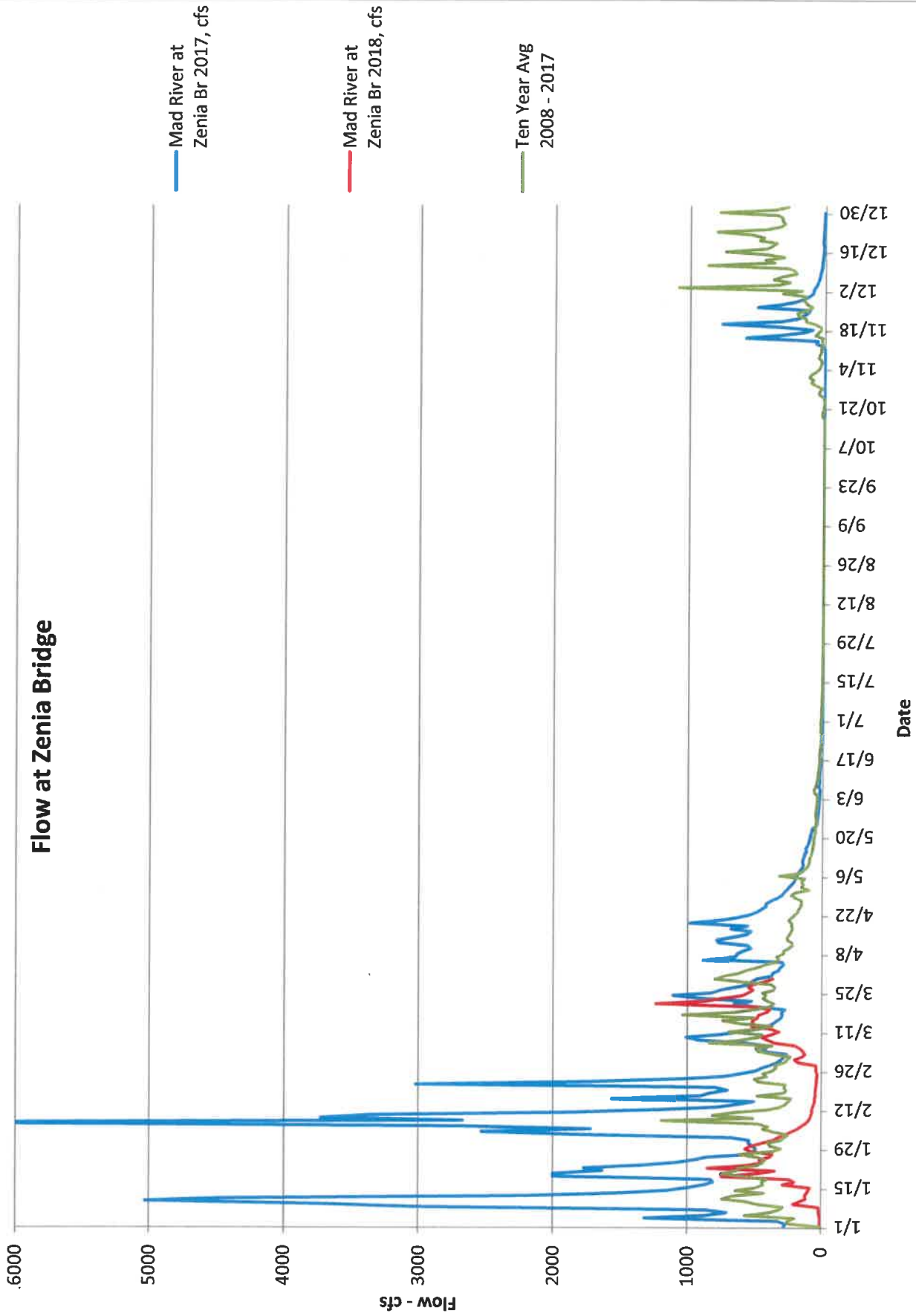
APPROVED BY: [Signature] DATE 3-12-18
Owner

ACCEPTED BY: _____ DATE _____
Contractor

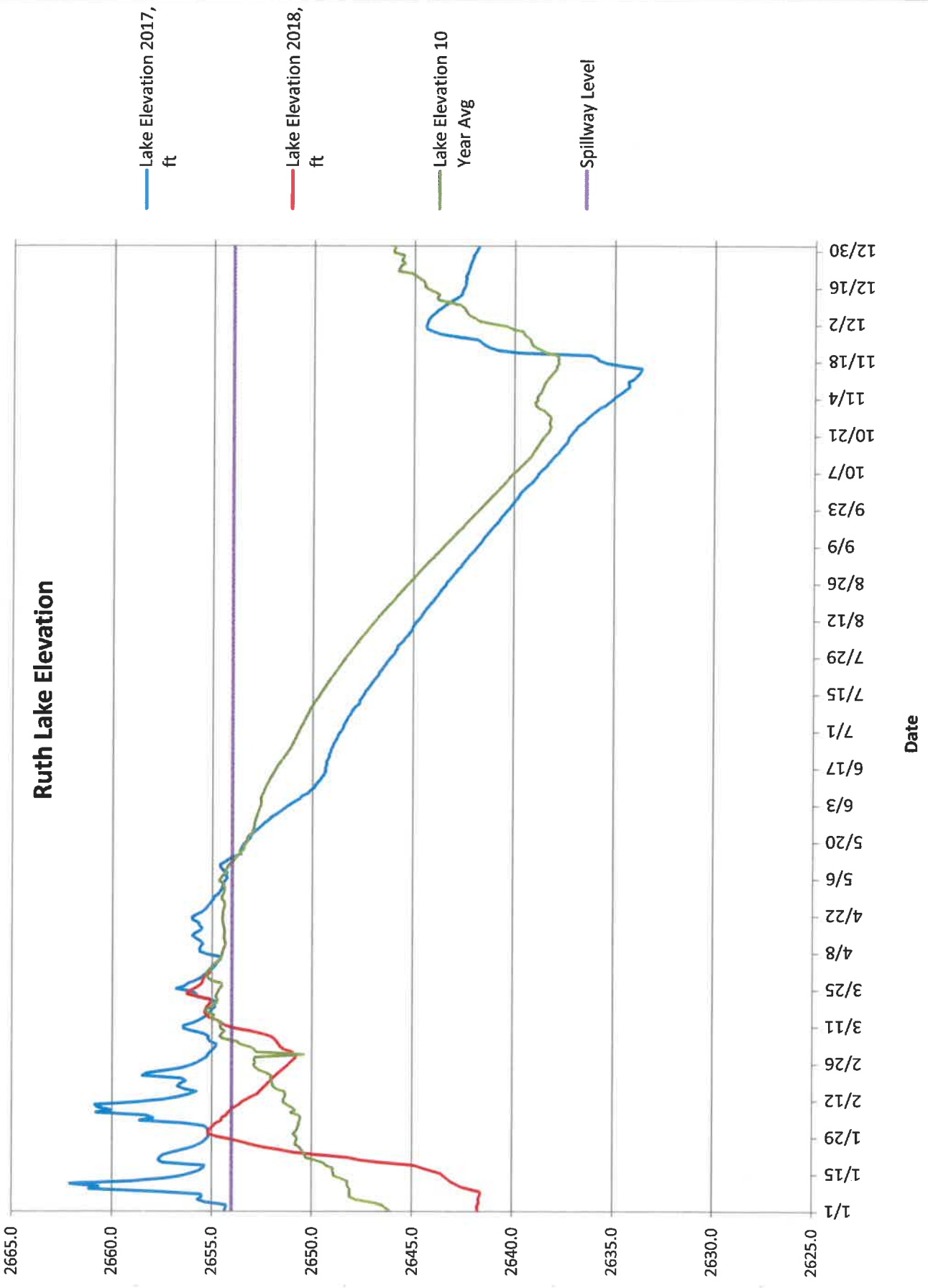
Ruth Rainfall - Water Year 2016-2017

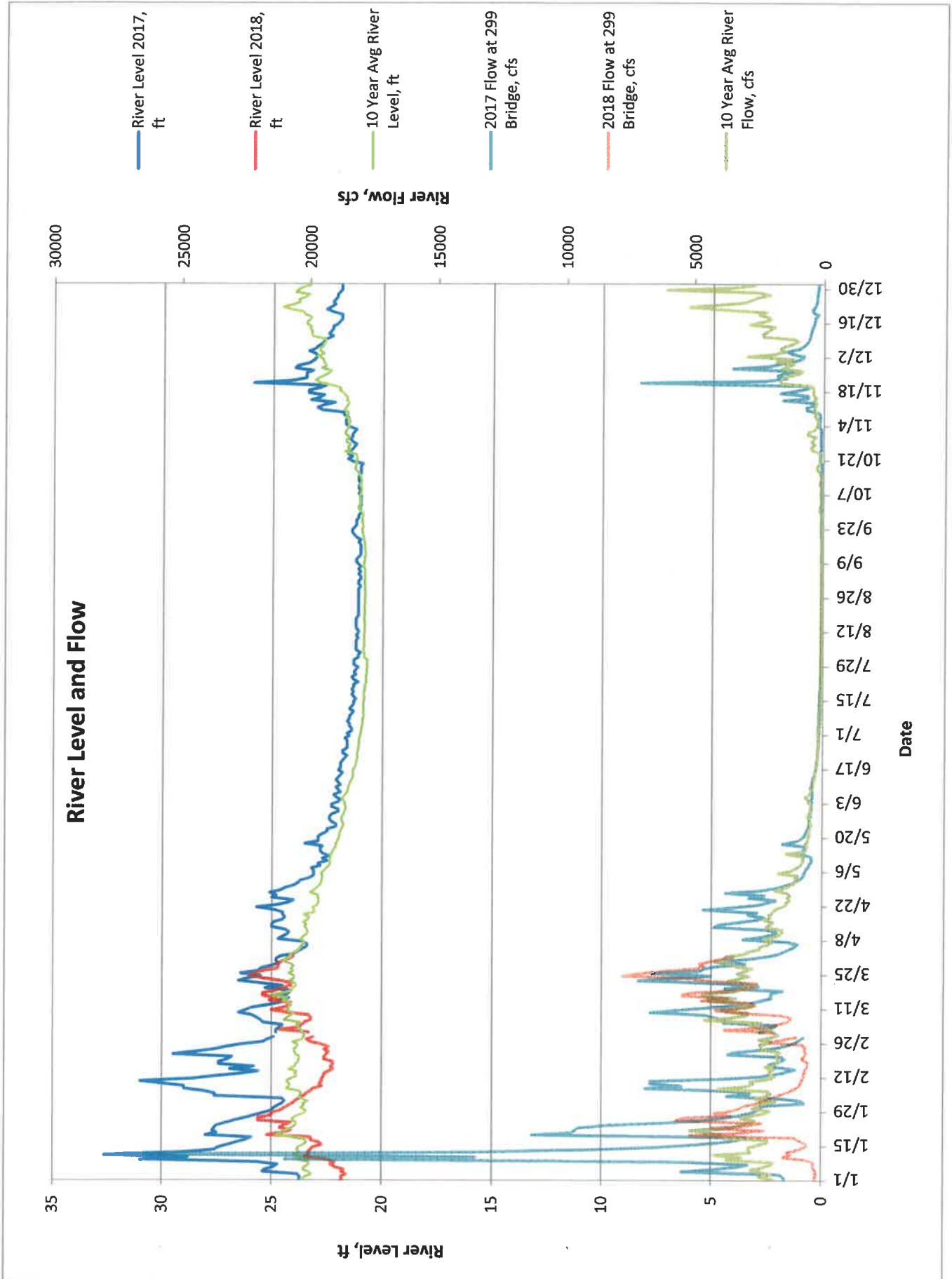


Flow at Zenia Bridge



Ruth Lake Elevation







**Humboldt Bay Municipal Water District
Ruth Hydro Production Report – Since June 1983**

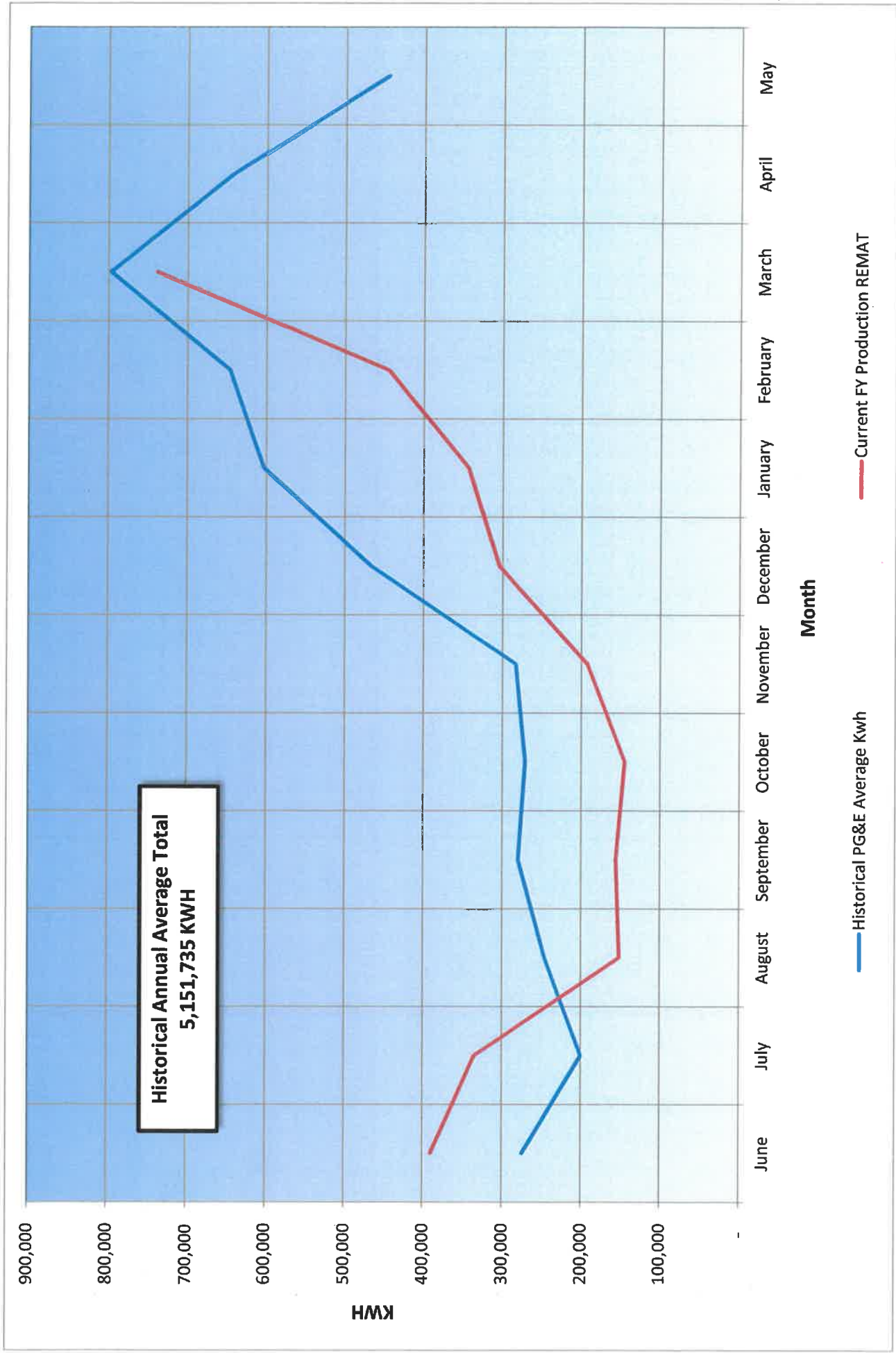
PG&E June 1983 through May 14, 2017

	Total Kwh Production	Average Monthly KWH Production
On Peak	11,630,086	28,575
Part Peak	58,575,072	143,919
Off Peak	83,856,378	206,035
Super Off Peak	26,796,680	65,840
Grand Total	180,858,216	444,369
	Pre REMAT Total Revenues	\$ 8,790,377.99
	No. of Months of Operation	407.5
	Average \$/Kwh	\$ 0.0486

**REMAT
May 15, 2017 to February 2018**

2017/2018 Month	Production KWH			Totals		REMAT #of Mos	Total No. of Months of Operation	Cumulative REMAT Revenues	Grand Total Revenues to Date	Avg \$/Kwh REMAT
	Day	Shoulder	Night	Total KWH	Monthly Revenues					
May	96,070.1	113,974.6	179,458.6	389,503.3	\$ 30,388.07	0.5	407.5	\$ 30,388.07	\$ 8,820,766.06	\$ 0.0932
June	81,535.2	96,802.0	155,848.2	334,185.4	\$ 26,120.87	1	408	\$ 56,508.94	\$ 8,846,886.93	\$ 0.0932
July	37,839.9	43,978.6	69,926.9	151,745.4	\$ 14,146.42	2	409	\$ 70,655.36	\$ 8,861,033.35	\$ 0.0932
August	39,075.2	45,418.9	71,539.6	156,033.7	\$ 14,543.49	3	410	\$ 85,198.85	\$ 8,875,576.84	\$ 0.0932
September	36,363.2	42,226.0	66,220.2	144,809.4	\$ 13,497.57	4	411	\$ 98,696.42	\$ 8,889,074.41	\$ 0.0932
October	48,570.2	56,566.9	87,605.6	192,742.7	\$ 18,457.96	5	412	\$ 117,154.38	\$ 8,907,532.37	\$ 0.0958
November	77,434.5	88,110.3	138,532.3	304,077.1	\$ 29,180.65	6	413	\$ 146,335.03	\$ 8,936,713.02	\$ 0.0960
December	83,746.8	100,340.0	158,937.6	342,718.4	\$ 32,775.44	7	414	\$ 179,110.47	\$ 8,969,488.46	\$ 0.0956
January	115,215.3	130,408.9	198,873.2	444,497.4	\$ 42,647.97	8	415	\$ 221,758.44	\$ 9,012,136.43	\$ 0.0959
February	180,500.0	214,085.6	343,849.9	738,435.5	\$ 70,673.06	9	416	\$ 292,431.50	\$ 9,082,809.49	\$ 0.0957

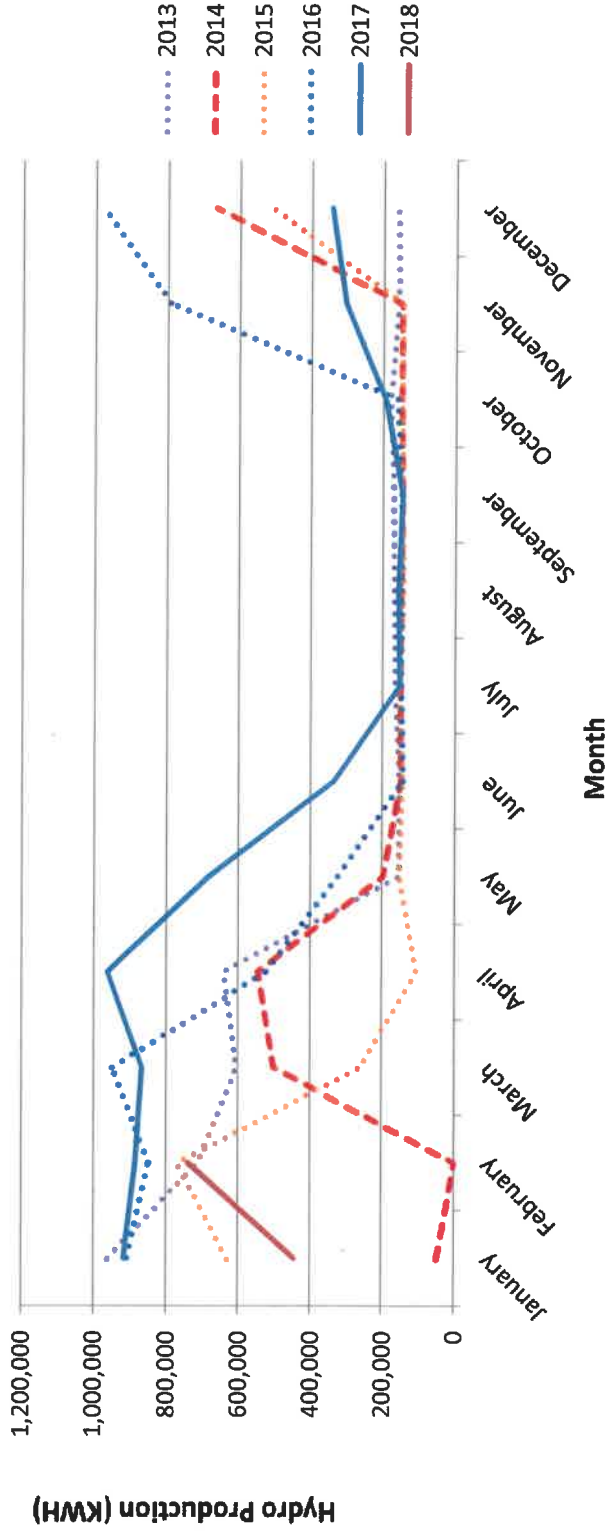
**Historical vs. Actual Cumulative Production
Gosselin Hydroelectric Plant at Ruth lake
All Data in Kilowatt Hours**



**Humboldt Bay Municipal Water District
Monthly Hydro Electric Production (KWH) for CY2013 - 2018**

Month	2013	2014	2015	2016	2017	2018
January	962,724	47,002	632,611	907,103	916,562	444,497
February	713,055	0	769,170	848,575	884,477	738,436
March	605,327	501,812	261,555	950,250	866,400	
April	642,402	545,893	106,258	523,573	962,033	
May	152,795	196,968	151,803	323,636	682,547	
June	152,044	147,630	143,055	142,248	334,185	
July	164,775	149,503	150,599	147,564	151,745	
August	168,428	148,220	140,977	147,531	156,034	
September	169,768	145,020	145,468	148,770	144,809	
October	178,812	148,715	147,574	159,930	192,743	
November	157,195	148,816	145,196	793,097	304,077	
December	160,936	665,823	510,915	978,889	342,718	
Total Annual	4,228,261	2,845,402	3,305,181	6,071,166	1,801,039	1,182,933

HBMWD: Monthly Hydro Production (KWH) 2013 - 2018



Electric Statement

SELLER:
 Humboldt Bay Municipal Water District
 828 7th Street
 Eureka, CA 95501
 Attention: General Manager

Invoice prepared	2018-03-05 21:52:56
Invoice period	2018-02
Contract reference	33R403RM
Executed	2016-10-16
Payment due	2018-03-30
Meter id	LOWGAP_7_QFUNTS
Channel	WH3_REC
Project	Matthews Dam Hydro

PURCHASER:
 Pacific Gas and Electric Company
 P.O. Box 770000
 Mail Code N12E
 San Francisco, CA 94177
 Attention: Azmat Mukhtar
 (ASM3@pge.com), Mgr. Bilateral
 Settlements

Summary Invoice

Charge	Gen (kWh)	Sold (kWh)	TOD factor	TOD \$/kWh	Energy (\$)
Day	180,500.0	180,500.0	1.399	0.12483277	22,532.31
Shoulder	214,085.6	214,085.6	0.718	0.06406714	13,715.85
Night	343,849.9	343,849.9	1.122	0.10011606	34,424.90
Totals	738,435.5	738,435.5	1.073	0.09570648	70,673.06

Calculation of PG&E ReMat & Muni Funds FY2017/18
 February 1-28, 2018

PERIOD	KWH	\$/KWH	ReMat Payment Received	Muni PG&E Base Rate	Rebate To Muni's	Professional Services related to ReMat Contract \$0,0056 Contract is split 50/50*	Balance To ReMat Fund (County)
DAY/PEAK	180,500.00	0.12483277	22,532.31	0.02943	\$ 21,732.16	JTN Energy \$ 2,067.62	Henwood Assoc., Inc. \$ 2,067.62
SHOULDER/MID-DAY	214,085.60	0.06406714	13,715.85				
NIGHT	343,849.90	0.10011606	34,424.90				
	738,435.50		\$ 70,673.06				\$ 44,805.67

Current Blended Rate Per Kwh \$ 0.10

*Separate checks are issued to JTN Energy & Henwood Associates, Inc. AFTER payment for month is received from PG & E G/Accounting/ReMat Analysis/ReMat Revenue & Payment

Memo to: Board of Directors

From: Dale Davidsen, Superintendent

Date: 4/6/18

Subject: Proposal to approve going out to bid on the Ruth Bunkhouse Remodel Project

Dear Board Members,

Attached to this memo is the Advertisement for Bid, Floor Plan and Elevation drawings for the Ruth Bunkhouse Remodel Project.

I am requesting your approval to release the proposed project to go out to bid. If approved, we will release the contract documents and plan set to the Builders Exchanges on Friday, April 13, 2018.

Sincerely



Dale Davidsen

Superintendent

Humboldt Bay Municipal Water District

ADVERTISEMENT FOR BIDS

Humboldt Bay Municipal Water District
Owner

828 Seventh Street
Eureka, CA 95501
Address

Separate sealed bids will be received for the Ruth Bunkhouse Remodel Project. A conditional or qualified bid will not be accepted if it modifies the Plans or Specifications.

There will be a pre-bid meeting for potential bidders to familiarize themselves with the project and location on April 27, 2018 at 9:00 a.m. (See attached Hwy 36 road closure notice) at the project location, 200 Headquarter Road; Ruth, California 95552. Please contact the District's, John Winzler Operations and Control Center at 707-822-2918 and advise the Superintendent, Dale Davidsen, of your intent to be at the meeting.

The work consists of furnishing all labor, materials, equipment and supervision for the construction of the Ruth Bunkhouse Remodel. The main components of the project include the following items: 1) Demo the 2 story portion of the existing bunkhouse leaving the bunk wing to remodel, 2) Form and pour new concrete foundation, 3) Build the new 2 story portion of bunkhouse; 4) remodel the existing bunkhouse wing; 5) Install new electrical wiring and components, 6) Install new plumbing and fixtures.

QUALIFICATIONS OF BIDDER

Bidder shall submit as part of their bid package a description of their experience and qualifications for construction of: Residential structures, Electrical, Plumbing. Bidder shall provide a narrative discussion of their expertise and experience to include at a minimum, the following information:

- a. The Contractor shall have been regularly engaged for a period greater than 5 years in the construction trade and all aspects of this type of work and must be qualified as specified below.
- b. Contractor shall have proof of ability and have demonstrated experience in building residential structures from the ground up to full completion.
- c. Resumes for Key personnel who will be involved with this project.

The selection of Contractor shall be based on responsiveness, experience/responsibility, and price. The Owner reserves the right to disqualify and reject any bid from an unqualified bidder.

Bids will be received by the District manager of Humboldt Bay Municipal Water District at the District Office, 828 Seventh Street, Eureka, California, until 3:00 p.m. May 11, 2018 and then at said office publicly opened and read aloud.

The Contract Documents are available and may be examined at the following locations and are available for download at the associated web sites:

HBMWD Website: www.hbmwd.com

Humboldt Builders Exchange, Eureka

North Coast Builders Exchange, Santa Rosa

Shasta Builders Exchange, Redding

Sacramento Builders Exchange, Sacramento

Hard copies of the specifications and plans may be obtained at the District's Office located at 828 Seventh Street, Eureka, CA 95501, upon payment of \$30.00 for each set.

None of the above payments for the Contract Documents will be refundable.

Each proposal must be submitted on the prescribed form and accompanied by a certified check or Bid Bond in an amount of not less than 10 percent of the amount bid. Successful bidders will be required to furnish both a payment Bond and a Performance Bond in full amount of the Contract Price. In accordance with Public Contract Code Section 10263, the Contractor will be allowed to substitute securities for monies normally withheld by the owner to insure performance under this contract.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations, State of California.

The general prevailing wage rates applicable to the work are set by the Director of the Department of Industrial Relations. The Contractor will be required to comply with any changes in these wage rates as they are updated by the State government at no cost to the Owner.

All Contractors and Subcontractors must furnish electronic certified payroll records directly to the Labor Commissioner (Division of Labor Standards Enforcement).

Pursuant to Senate Bill 854, all contractors bidding on public works projects must register with the Department of Industrial Relations. Contractors are subject to a registration and annual renewal fee. No contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) unless registered with the Division of Labor Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)] Accordingly, all Prime and Subcontractors contained in a bid must provide valid Department of Industrial Relations registration number(s). Failure to provide valid DIR registration numbers in the bid documents shall disqualify the entire bid.

Sheri Woo

President

Humboldt Bay Municipal Water District

April 12, 2018
Date

HIGHWAY 36 REALIGNMENT CONSTRUCTION



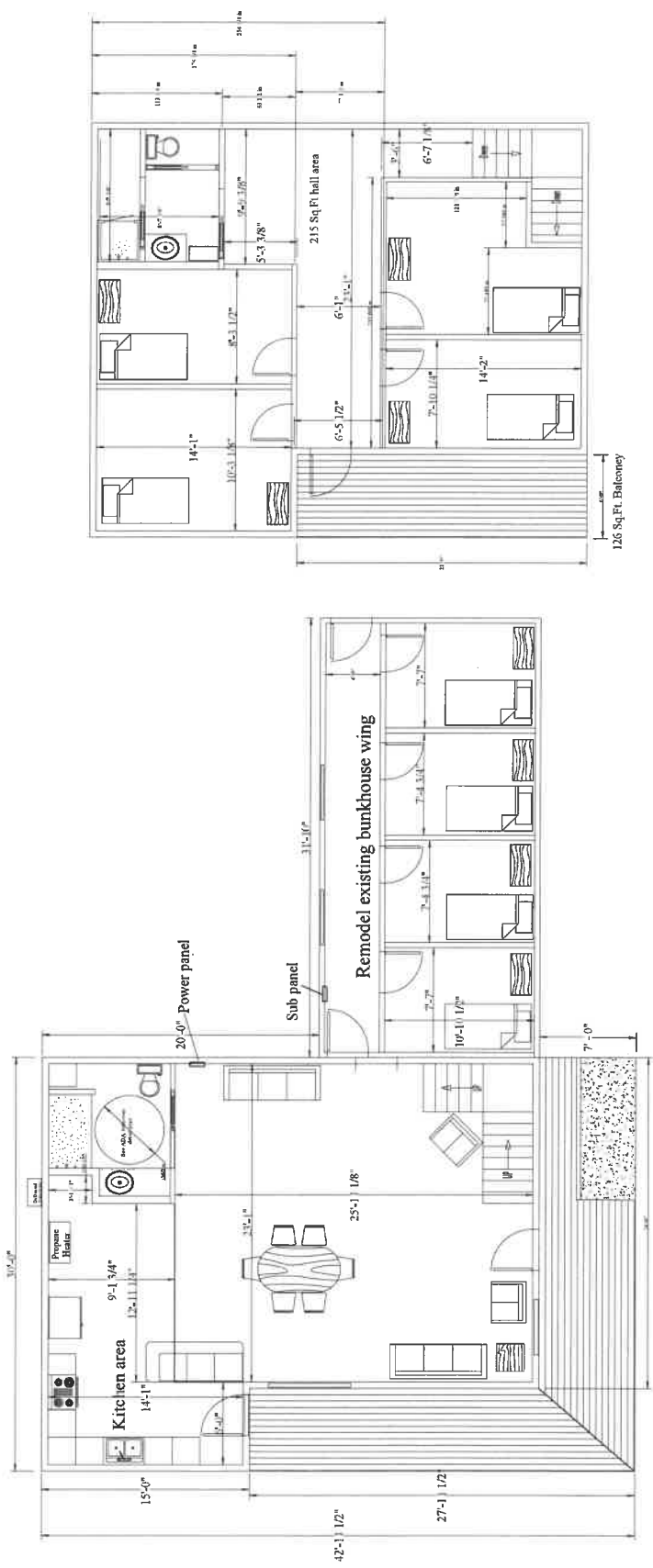
Project Details: Federal Highways Administration and Mercer Fraser Company will be performing a realignment project between Humboldt Post Mile 36.05 and Humboldt Post Mile 40.44 that was started last year. This work will be an improvement to realign the highway and straighten out the sharp curve on the existing highway now.

Time: Full Road Closures are in effect April 1st and will continue until project ends or November 1st.

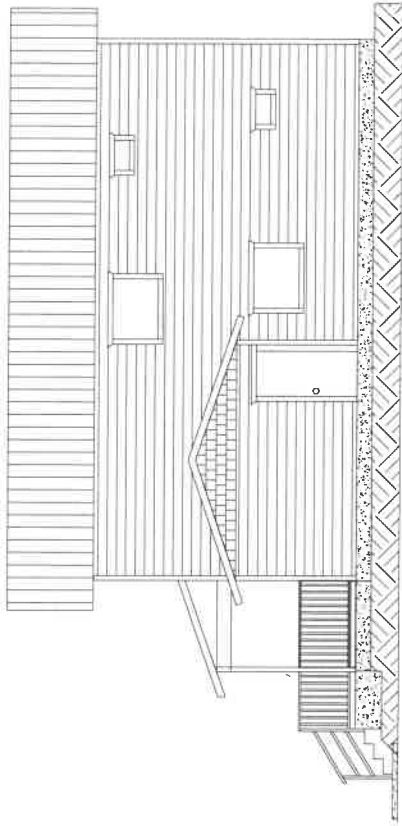
Closure Times: The Highway will be closed to public traffic from 8AM to 12PM and 1PM to 5PM Monday thru Thursday. As well as 8AM-12PM AND 1PM to 3PM on Friday's. There will be a travel window between 12PM and 1PM where we will let traffic through the closure for an hour. Flagging will take place before and after these times with up to 30 min delays.

Contact: If you need questions answered or have any concerns feel free to contact the contractors Public Information Officer Kody King at (707)273-9097.

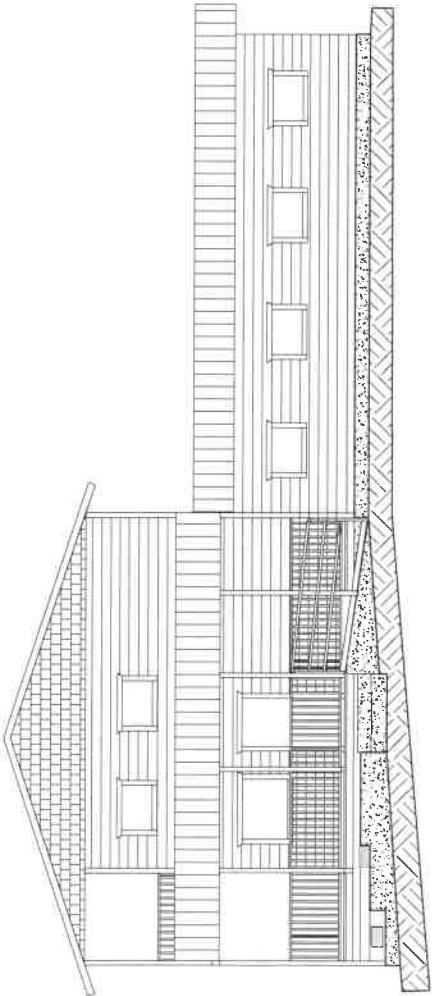
Remodeled Bunkhouse Floor Plan



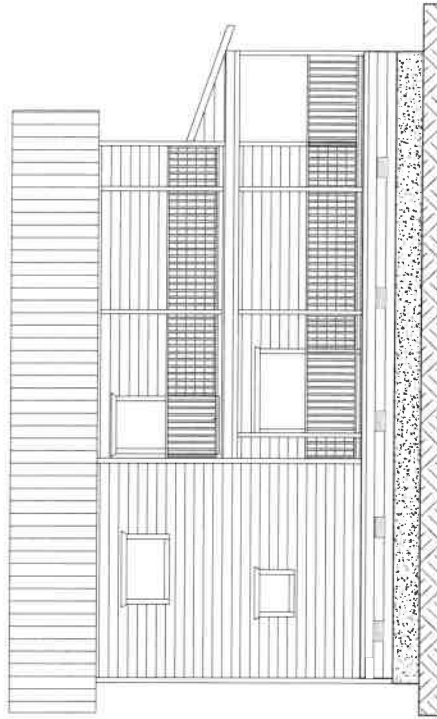
Humboldt Bay Municipal Water District	
Ruth Bunkhouse Remodel	
TITLE	
Remodeled Bunkhouse Floor Plan	
with room dimensions	
SIZE	AP # 020-320-02-00
REV	
SCALE	1/8" = 1'
	SHEET 3



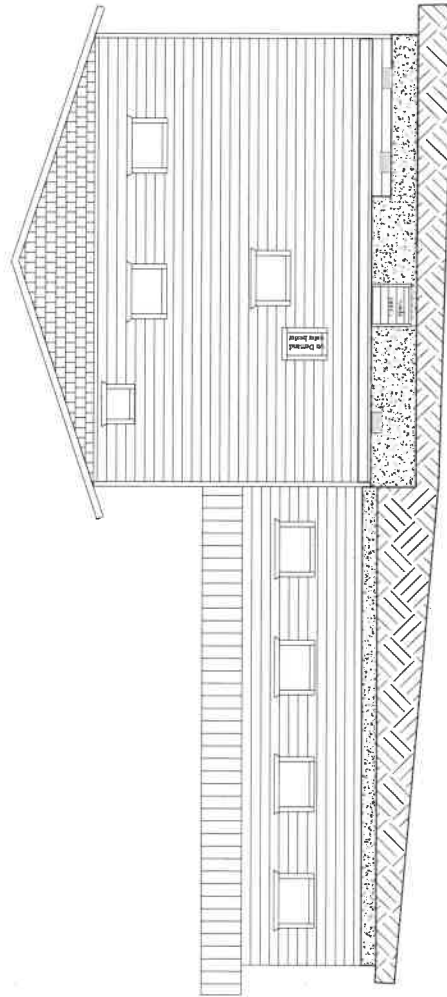
Northeast Elevation



Southeast Elevation(Front)



Southwest Elevation (Lake side)



Northwest Elevation

Humboldt Bay Municipal Water District Ruth Bunkhouse Remodel			
TITLE	Elevations		
SIZE	DATE CODE	AP #	REV
		020-320-02-00	
SCALE	1/8" = 1'		SHEET 4

MANAGEMENT



April 2018

On April 2, the Legislature returned from Spring Recess and policy committee meetings immediately began reviewing the thousands of newly introduced bills. All bills with a fiscal impact must pass their respective policy committees by April 27. Read on for the latest details on legislation impacting special districts and visit csda.net/take-action to learn more.



Inside this edition of the Grassroots Action Brief:

- Redevelopment Bills Amended: Committee Hearings in April.....2
- JPAs and Their Member Agencies are Targeted by New Bill.....4
- Support Requested for Workable Website Transparency Legislation.....5
- Bill Proposes Consolidation of Failing Small Water Systems.....5
- Unions Seeking Changes to Employee Orientations... Already.....6
- More Public Outreach Tools Underway.....7
- Hot Legislation.....8
- Other Ways to Take Action (Learn, Engage, Give Feed Back, and Stay Informed)9

Contact a local CSDA representative near you!

Dane Wadlé
 Colleen Haley
 Steven Nascimento
 Chris Palmer

Northern & Sierra Networks
 Bay Area Network
 Central Network
 Coastal & Southern Network

danew@csda.net
colleenh@csda.net
stevonn@csda.net
chrisp@csda.net



➤ REVENUE, FINANCES, AND TAXATION

CSDA's long range policy priority on revenue, finances, and taxation is to ensure adequate funding for special districts' safe and reliable core local service delivery. Protect special districts' resources from the shift or diversion of revenues without the consent of the affected districts. Promote the financial independence of special districts and afford them access to revenue opportunities equal to that of other types of local agencies.

Redevelopment Bills Amended: Committee Hearings in April

First established in 1945, Redevelopment Agencies (RDAs) were dissolved in 2011 after their share of the statewide property tax grew from 2 percent in 1977 to 12 percent—more than the total amount received by all special districts. RDAs unilaterally froze the property tax receipts of other local governments and schools in their jurisdiction and diverted the property tax growth, or “increment”, for over 40 years. RDAs borrowed against future growth to pay for redevelopment projects.

Since the dissolution of RDAs, CSDA has worked in partnership with cities and counties to provide local governments with new economic development tools that do not divert revenue from local service providers without their consent. Examples of these tools include Enhanced Infrastructure Finance Districts (EIFDs) and Community Revitalization and Investment Authorities (CRIAs). However, unlike former RDAs, these tools require a 55% vote to approve bonds, and they do not provide access to the school share of the local property tax. Therefore, with policymakers working to find solutions to California's housing crisis, old tools like RDAs are being revisited.

Recently, Assembly Members David Chiu and Chris Holden amended legislation to reestablish RDAs. Both AB 3037 (Chiu) and AB 1778 (Holden) would authorize the diversion of property tax increment away from special districts and other local agencies. However, AB 3037 attempts to then return the local revenue through a passthrough mechanism.

Neither of these measures require the consent of any special districts that would be part of the financial base of any revived RDA. CSDA has very serious concerns with the bills and proposes:

- Other recently created tools should be utilized before contemplating the return of RDAs.
- RDAs should not divert local property taxes away from other local agencies without their consent.
- All local agencies that voluntarily participate in RDAs should have access representation on the RDA board.

AB 3037 (Chiu) will be heard in the Assembly Housing and Community Development Committee on April 11th. Letters were due Wednesday April 4th for notice in that committee's analysis. However, the measure has been “double-referred”, meaning it must also be heard on April 18th or 25th in the Assembly Local Government Committee. This will provide concerned stakeholders with multiple opportunities to express their concern or opposition.

AB 1778 (Holden) is also “double-referred” and is scheduled to be heard in the Assembly Local Government Committee on April 18th. Should it be successful in that committee, it will be heard in the Assembly Housing and Community Development Committee shortly thereafter. For those districts or other entities who wish to express their concern or opposition, letters will be due one week prior to each hearing for notice in that committee's analysis.

**Take Action:**

- 1) Send a letter expressing your concerns about reviving RDAs** without the consent of the affected districts, and without utilizing existing tools already in statute, to your legislators or to your CSDA legislative representative, Anthony Tannehill at anthonyt@cda.net for distribution. A sample letter of concern or opposition can be found at cda.net/take-action. This legislation could affect all special districts that receive ad valorem property tax revenue, even if you did not lose revenue to former RDAs.

- 2) If your district receives property tax revenue, please share with CSDA:**
 - During the RDA era, how was your district impacted by the diversion of the tax increment? How much of your revenue was diverted and what programs or projects were cut as a consequence?
 - With the dissolution of RDAs, most special districts have had a portion of their diverted property tax increment returned—called “residual”. How has this restoration of local funding benefited your district?
 - The return of RDA could impact any district that receives ad valorem property tax revenue—even if you didn’t previously have an RDA in your area. Prior to their dissolution, RDAs diverted approximately 12 percent of all local property taxes. What would happen to your local services and infrastructure if your district lost 12 percent of its property tax revenue?

CSDA will continue to work in partnership with the Legislature and other stakeholders to find tools that meet the challenges facing our State and local communities without requiring the diversion of local revenue from other local agencies delivering essential services and infrastructure.

For more information, please contact the CSDA Legislative Representative covering this issue: Anthony Tannehill, anthonyt@cda.net.



➤ GOVERNANCE AND ACCOUNTABILITY

CSDA's long range policy priority on governance and accountability is to enhance special districts' ability to govern as independent, local government bodies in an open and accessible manner. Encourage best practices that avoid burdensome, costly, redundant, or one-size-fits all approaches. Protect meaningful public participation in local agency formations, dissolutions, and reorganizations, and ensure local services meet the unique needs, priorities, and preference of each community

JPAs and Their Member Agencies are Targeted by New Bill

Concerned with protecting the defined benefit pensions of the employees of Joint Powers Authorities (JPAs), Assembly Member Freddie Rodriguez has introduced AB 1912. This legislation looks to make sweeping changes to JPAs in response to the failure of a single entity in Los Angeles County.

In 2017, the East San Gabriel Valley Human Services Consortium, a JPA also known as LA Works, disbanded while owing \$19.4 million to CalPERS in unfunded pension liabilities. As a result, CalPERS tried to collect the debt from the forming agencies of the JPA, which included four cities and a county. When the member agencies refused to pay, because they were not legally responsible for any of the liabilities of the JPA, CalPERS cut the pensions of over 150 employees and retirees from the JPA by roughly 60 percent.

AB 1912 places substantial burdens and new unworkable requirements on local and state agencies by applying retroactive, as well as prospective, joint and several liability for all retirement related obligations to any current or former member of a JPA throughout its existence. Such obligations include active employee normal pension costs, retiree unfunded accrued liabilities (UAL) as well as both active and retiree healthcare and other post-employment retirement benefits (OPEB). These costs cannot be overstated. According to the State Controller's Office most recently available data, the unfunded liability of California's 130 state and local government pension plans stand at \$241.3 billion and 125 billion for retiree healthcare costs.

Additionally, this bill conflicts with the California Constitution with regards to debt limits. The California constitutional debt limit prohibits an agency from incurring indebtedness beyond the agency's ability to pay the debt back from revenues received in the same fiscal year without the approval of two-thirds of its voters (Cal Const. art XVI, §18). These safeguards were placed in the State's constitution to avoid a situation in which the holders of an issue of bonds might compel an increase in taxes or foreclose on an agency's assets.

By applying retroactive joint and several liability to existing contracts, agencies will now incur significant debts that in many cases will exceed an agency's annual revenue without receiving voter approval—thus violating the sighted provision. Further, it can be argued that retroactively incurring debts of another agency violates article XVI, §6 of the California Constitution which prohibits an agency from giving or lending public funds to any person, public or private entity. A Joint Powers Authority is an independent governmental body whereby the agency members have no legal, statutory oversight or managing authority—liabilities from such entities retroactively applied to each member agency would constitute a gift of public funds to an individual(s) and/or public entity.

CSDA is strongly opposed to this legislation and will continue to engage with our membership and the Legislature on this issue. If you would like to learn more information about AB 1912, or participate in the working group addressing this legislation, please contact CSDA's Senior Legislative Representative, Dillon Gibbons, at dillong@csda.net.



Support Requested for Workable Website Transparency Legislation

In response to requests from the State Legislature and the Little Hoover Commission, and in furtherance of CSDA's efforts to increase the awareness, accessibility, and transparency of special districts, CSDA is sponsoring SB 929 (McGuire), which will require all special districts to have a website by 2020.

In late 2016, CSDA established a working group, consisting of districts of varying sizes and locations throughout the state, and spent over a year carefully crafting what is now SB 929 (McGuire). As written, the legislation recognizes barriers that prevent some districts from successfully maintaining a website and allows these districts to exempt themselves by detailing their hardship circumstances in a resolution adopted in a public meeting.

Take Action: Send a letter of support to your legislators encouraging them to vote for SB 929 when it comes before them. A sample letter of support can be found at csda.net/take-action.

Additionally, districts interested in applying for an SDLF scholarship to cover the cost of a special district website for 15 months should visit the SDLF website at www.sdlf.org. Should you have any questions about SB 929, please contact CSDA's Senior Legislative Representative, Dillon Gibbons, at dillong@csda.net.

➤ INFRASTRUCTURE, INNOVATION, AND INVESTMENT

CSDA's long range policy principal regarding infrastructure, innovation, and investment is to encourage prudent planning for investment and maintenance of innovative long-term infrastructure. CSDA supports the development of fiscal tools and incentives to assist special districts in their efforts to meet California's changing demands, ensuring the efficient and effective delivery of core local services.

Bill Proposes Consolidation of Failing Small Water Systems

AB 2050, introduced by Assembly Member Caballero (D – Salinas), would consolidate failing small water systems into a new type of independent special district, known as a Small System Water Authority. The Authority would be empowered to absorb and operate failing water systems in a defined geographic area.

The bill is intended to address the large amount of small water systems that have consistently failed to provide clean water to their ratepayers. The State Water Resources Control Board has identified over 300 water systems in California that are currently failing to provide safe drinking water to their customers. These are predominately small privately-owned water systems serving disadvantaged communities. Many have failing water infrastructure and drinking water with a variety of manmade and natural contaminants. These failing small systems lack the financial, managerial, and technical resources to provide safe drinking to the communities they serve.

AB 2050 establishes a process, to be overseen by the State Water Resources Control Board and the county Local Agency Formation Commission, for the consolidation of failing small systems into a regional Authority. The Authority will provide improved governance and technical expertise, allowing failing small systems to address their water quality issues. Since the Authority is an independent special district, the communities it serves will be able to elect officials to the Authority's board, increasing accountability. The Authority will also potentially provide more affordable water rates from economies of scale.

CSDA has taken a support position on AB 2050. If you have any questions please contact Rylan Gervase at rylang@csda.net.



➤ HUMAN RESOURCES AND PERSONNEL

CSDA's long range policy priority on human resources and personnel is to promote policies related to hiring, management, and benefits and retirement that afford flexibility, contain costs, and enhance the ability to recruit and retain highly qualified, career-minded employees to public service. As public agency employers, support policies that foster productive relationships between management and employees, both represented and non-represented.

Unions Seeking Changes to Employee Orientations... Already

The ink is barely dry on the new requirement for all public agencies to not only provide employee orientations, but to allow unions an opportunity to meet with new employees during those orientations. Yet, the same union organizations that sought the orientations that became law on June 27, 2017, are already trying to make changes to the new law.

Since the orientation law went into effect, public employers have been required to provide all new employees with an onboarding orientation. If the employer has represented employees, the employer is required to allow an opportunity for employee representatives to meet with the new employees as part of the orientation, with the details of the time and structure of that meeting to be agreed upon between the employer and the exclusive representative(s). However, providing other necessary trainings and disclosures during new employee orientations, often required by state law, remain the responsibility of the employer.

Sponsored by the California Labor Federation, AB 2970 (Cooper) would require that the date, time, and place of orientations be confidential and not be shared with anyone other than employees or the exclusive representative. While union representatives may seek to have their portion of the orientations deemed confidential as to the date, time, and place of the orientation, it is reasonable for an employer to want, or need, the public to know about the orientations they are providing employees. Reasons that an employer may want information about its portion of new employee orientations to remain public include: promoting workplace harassment prevention efforts, promoting gender equality in the workforce, providing information about proper safety protocols, providing information about benefits and resources available to employees, and general recruiting efforts.

Another bill addressing employee orientations is AB 2154 (Bonta). Sponsored by the Service Employees International Union, AB 2154 is an attempt to address the potential negative financial impacts that the pending United States Supreme Court Case, *Janus vs. AFSCME*, may have on public employee unions. The bill seeks to add several new "release time" provisions to law, which would allow employee union representatives to carry out activities on behalf of unions on employer paid time. One of the proposed release time activities would be for an employee representative to attend and participate in new employee orientations. However, AB 119, signed into law last year, made it clear that employee representative compensation for attending orientations was to be left up to negotiations in the collective bargaining process. AB 2154 removes this item from collective bargaining and will require employers to pay employee union representatives to attend employee orientations. This may not have a large impact on some districts, but for those districts with multiple bargaining units, or those regularly hiring and orienting new employees, AB 2154 could result in significant costs for services that do not directly benefit the public.

These are only two of the many bills we anticipate from unions this year looking to address the pending Supreme Court case and the recently passed employee orientation requirements. Should you have any questions about this legislation, please feel free to contact CSDA's Senior Legislative Representative, Dillon Gibbons, at dillong@csgda.net.



➤ DISTRICTS MAKE THE DIFFERENCE

Districts Make the Difference was created to increase public awareness and understanding of special districts across California. The campaign website, www.districtsmakethedifference.org provides a public place to learn more about special districts and the positive effect they have on their communities, while also serving as a resource for districts to download useful materials, collateral, and information.

More Public Outreach Tools Underway

Stay tuned as the Districts Makes the Difference campaign is currently developing several new outreach projects that will continue to promote public awareness and reflect the significance of special districts throughout California.

In the meantime, CSDA encourages you to share our current DMTD content, including our full suite of videos, and shareable infographics. Our new video highlighting the work of transit districts will be available later this month.

Also, CSDA is always looking for good content to share! Don't forget to use the hashtag **#DistrictsMakeTheDifference** when posting your stories on social media.



www.DistrictsMakeTheDifference.org

Learn more about our public outreach campaign at www.DistrictsMakeTheDifference.org and engage with us on social media:

- Like us on Facebook.com/CASpecialDistricts
- Follow us on Twitter @CA_Districts
- Subscribe to us on www.YouTube.com/c/CaSpecialDistrictsDMTD
- Download the logo to your homepage and link to www.DistrictsMakeTheDifference.org

If you have any questions about how to better utilize CSDA's public outreach campaign, or if you have any ideas for new materials we should provide, please contact CSDA's Public Affairs Team at pr@csla.net.

**➤ HOT LEGISLATION**

Here is where the hottest bills affecting special districts sit in the California Legislature this month:

- **Sexual Harassment Prevention Training—SB 1343 (Mitchell):** This bill would require every employer, with five or more employees, to provide their employees with two-hours of sexual harassment prevention training once every two years. Additionally, the bill would require the Department of Fair Employment and Housing to develop a training video that employers could use to provide the training.
CSDA's position: Support if Amended (reduce training to one hour)
Bill Location: Senate Labor and Industrial Relations Committee
- **Disposal of Surplus Land—AB 2065 (Ting):** Includes special districts in the list of local agencies that have to follow certain requirements for the disposal of surplus land. These requirements include offering the land for use for affordable housing, park and recreational facilities, and school construction. "Disposal" applies to the sale, lease, and transference of land owned by a public agency.
CSDA's position: Oppose Unless Amended
Bill Location: Assembly Local Government Committee
- **CA Voting Rights Act Lawsuits—AB 2432 (Oberholte):** If a public agency with at-large elections is sued under the California Voting Rights Act, this bill would prohibit a court from imposing district-based elections unless the plaintiff has established that district-based elections would alleviate the voting rights violations.
CSDA's position: Pending
Bill Location: Assembly Elections and Redistricting Committee
- **Elected Officials Interactive Database—AB 2707 (Mullin):** Would require the Secretary of State to have a website that has the names and contact information for each voter's specified local, state, and federal elected officials, which would be displayed upon a voter submitting his or her address information on the Internet Web site.
CSDA's position: Pending
Bill Location: Assembly Elections and Redistricting Committee
- **Data Storage and Protections for Local Agencies—AB 2812 (Limón):** Establishes the Office of Cloud Migration in the Department of Technology and requires the office to promote cloud-based data storage as an efficient and cost-effective means of data storage and protection for local agencies and to assist local agencies in integrating cloud-based storage into their information technology systems.
CSDA's position: Pending
Bill Location: Assembly Privacy and Consumer Protection Committee



➤ OTHER WAYS TO **TAKE ACTION**

Learn

Register now for **Special District Legislative Days, May 22 – 23**. Legislative Days is an interactive two-day conference in our State Capitol that includes pre-arranged meetings with State Legislators and staff and a keynote address from CalPERS CEO Marcie Frost. **The early bird discount deadline is April 20, 2018**. Visit csda.net to [register](#) today.

Engage

CSDA has launched a new online forum for members. CSDA Communities provide our members with an easy-to-use venue for discussing ideas, finding solutions, sharing documents, and building relationships. Use your email address to login at csda.net and get started.

Give Feedback

Join an Expert Feedback Teams to provide CSDA staff with invaluable insights on policy issues. Email marcusd@csda.net to inquire about joining one of the following teams:

- Budget, Finance and Taxation
- Environment
- Formation and Reorganization
- Human Resources and Personnel
- Governance
- Public Works and Contracting

Stay Informed

In addition to the many ways you can **TAKE ACTION** with CSDA's advocacy efforts, CSDA offers a variety of tools to keep you up-to-date and assist you in your district's legislative and public outreach. Make sure you're reading these resources:

- CSDA's weekly e-Newsletter
- Districts in the News
- CSDA's CA Special District Magazine

Email advocacy@csda.net for help accessing these additional member resources.



HUMBOLDT BAY MUNICIPAL WATER DISTRICT

SECTION AB PAGE NO. 1

828 SEVENTH STREET, PO BOX 95 • EUREKA, CALIFORNIA 95502-0095

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MICHELLE FULLER, DIRECTOR

GENERAL MANAGER

JOHN FRIEDENBACH

April 12, 2018

The Honorable Jim Wood
California State Assembly
State Capitol
Sacramento, CA 95814

RE: Senate Bill 929 (McGuire) – Support [as amended March 6, 2018]

Dear Assemblymember Wood,

On behalf of the Board of Directors of Humboldt Bay Municipal Water District, I am writing to support Senate Bill 929 (McGuire), which would require that all special districts maintain a website.

As you know, we are a Municipal Water District that was formed in 1956 to develop a regional water system that provides a reliable water supply to customers in the greater Humboldt Bay area of Humboldt County. The District operates almost exclusively at the wholesale level. We supply drinking water to seven public agencies, who in turn, serve the residents, businesses and industries in our community comprising approximately 88,000 customers.

Special districts like ours provide millions of Californians with essential local services and infrastructure. Communities form special districts when there is something the community wants, the community wants done well, and the community wants done with local control. As local service providers, few governmental agencies in the state, such as special districts, are as impactful on the day-to-day lives of Californians.

SB 929 will enable the public with greater access to their services, greater transparency and accountability of the governing bodies who oversee them.

Specifically, SB 929 would require that, by 2020, every independent special district must have a website. These will meet existing local agency website requirements including: a link to the district's meeting agendas, Financial Transaction Reports, and Compensation Reports, as well as a copy of the district's enterprise systems catalog. The bill will also ensure the sites contain contact information for the district. SB 929 will provide an exemption for small districts that cannot comply due to hardships such as lacking broadband access, or the necessary finances or staff to construct and maintain a website.

We believe that special districts are a beneficial form of local government, and we are committed to empowering our community to engage with its government. The increased transparency provided by SB 929 is consistent with our district's outreach efforts and making information more widely available on the Internet will improve public awareness and access to special district services in our community. Our District's website may be viewed at: www.hbmwd.com. We encourage you to visit our site and view the information available to our constituents through our district's website.

For these reasons, the Humboldt Bay Municipal Water District encourages you to support Senate Bill 929 (McGuire).

Sincerely,

John Friedenbach
General Manager

cc: The Honorable Mike McGuire [Kimberly.Kollwitz@sen.ca.gov]
Dillon Gibbons, California Special Districts Association [advocacy@cda.net]



HUMBOLDT BAY MUNICIPAL WATER DISTRICT

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MICHELLE FULLER, DIRECTOR

GENERAL MANAGER

JOHN FRIEDENBACH

April 12, 2018

The Honorable Mike McGuire
California State Senate
State Capitol
Sacramento, CA 95814

RE: Senate Bill 929– Support [as amended March 6, 2018]

Dear Senator McGuire,

On behalf of the Board of Directors of Humboldt Bay Municipal Water District, I am writing to express our support for your bill, Senate Bill 929, which would require that all special districts maintain a website.

As you know, we are a Municipal Water District that was formed in 1956 to develop a regional water system that provides a reliable water supply to customers in the greater Humboldt Bay area of Humboldt County. The District operates almost exclusively at the wholesale level. We supply drinking water to seven public agencies, who in turn, serve the residents, businesses and industries in our community comprising approximately 88,000 customers.

Special districts like ours provide millions of Californians with essential local services and infrastructure. Communities form special districts when there is something the community wants, the community wants done well, and the community wants done with local control. As local service providers, few governmental agencies in the state, such as special districts, are as impactful on the day-to-day lives of Californians.

Your bill, SB 929 will enable the public with greater access to their services, greater transparency and accountability of the governing bodies who oversee them.

We support the requirements contained within SB 929 requiring that every independent special district must have a website by 2020. These will fulfill existing local agency website requirements including: a link to the district's meeting agendas, Financial Transaction Reports, and Compensation Reports, as well as a copy of the district's enterprise systems catalog. We also support that the bill ensures the sites contain contact information for each district. We especially support that SB 929 will provide an exemption for small districts that cannot comply due to hardships such as lacking broadband access, or the necessary finances or staff to construct and maintain a website.

We believe that special districts are a beneficial form of local government, and we are committed to empowering our community to engage with its government. The increased transparency provided by SB 929 is consistent with our district's outreach efforts and making information more widely available on the Internet will improve public awareness and access to special district services in our community. Our District's website may be viewed at: www.hbmwd.com. We encourage you to visit our site and view the information available to our constituents through our district's website.

For these reasons, the Humboldt Bay Municipal Water District supports your Senate Bill 929 (McGuire) and thanks you for moving this forward in concert with the California Special Districts Association.

Sincerely,

John Friedenbach
General Manager

cc: Dillon Gibbons, California Special Districts Association [advocacy@cdda.net]



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SB-929 Special districts: Internet Web sites. (2017-2018)

Date	Action
04/04/18	From committee: Do pass and re-refer to Com. on APPR. (Ayes 6, Noes 0.) (April 4). Re-referred to Com. on APPR.
03/21/18	Set for hearing April 4.
03/15/18	Re-referred to Com. on GOV. & F.
03/06/18	From committee with author's amendments. Read second time and amended. Re-referred to Com. on RLS.
02/08/18	Referred to Com. on RLS.
01/26/18	From printer. May be acted upon on or after February 25.
01/25/18	Introduced. Read first time. To Com. on RLS. for assignment. To print.



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SB-929 Special districts: Internet Web sites. (2017-2018)

SHARE THIS:



Date Published: 03/06/2018 09:00 PM

AMENDED IN SENATE MARCH 06, 2018

CALIFORNIA LEGISLATURE— 2017–2018 REGULAR SESSION

SENATE BILL

No. 929

Introduced by Senator McGuire

January 25, 2018

~~An act to amend Section 53085 of the Government Code, relating to local government.~~ *An act to add Section 53087.8 to the Government Code, relating to special districts.*

LEGISLATIVE COUNSEL'S DIGEST

SB 929, as amended, McGuire. ~~Local government: applicant for economic development financial assistance: statement.~~ *Special districts: Internet Web sites.*

The Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000 provides the exclusive authority and procedure for the initiation, conduct, and completion of changes of organization and reorganization for special districts, as specified. The California Public Records Act requires a local agency to make public records available for inspection and allows a local agency to comply by posting the record on its Internet Web site and directing a member of the public to the Web site, as specified.

This bill would, beginning on January 1, 2020, require every independent special district to maintain an Internet Web site that clearly lists contact information for the special district, except as provided. Because this bill would require local agencies to provide a new service, the bill would impose a state-mandated local program.

The California Constitution requires local agencies, for the purpose of ensuring public access to the meetings of public bodies and the writings of public officials and agencies, to comply with a statutory enactment that amends or enacts laws relating to public records or open meetings and contains findings demonstrating that the enactment furthers the constitutional requirements relating to this purpose.

This bill would make legislative findings to that effect.

The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that with regard to certain mandates no reimbursement is required by this act for a specified reason.

With regard to any other mandates, this bill would provide that, if the Commission on State Mandates determines that the bill contains costs so mandated by the state, reimbursement for those costs shall be made pursuant to the statutory provisions noted above.

SECTION 41b, PAGE NO. 7

~~Existing law authorizes a local agency to require an applicant for economic development loans, grants, or similar financial assistance to sign a statement under penalty of perjury that he or she has not been convicted of a felony.~~

~~This bill would make a nonsubstantive change to that provision.~~

Vote: majority Appropriation: no Fiscal Committee: ~~no~~yes Local Program: ~~no~~yes

THE PEOPLE OF THE STATE OF CALIFORNIA DO ENACT AS FOLLOWS:

SECTION 1. *The Legislature finds and declares all of the following:*

- (a) *Special districts are local government agencies that provide essential services to millions of Californians.*
- (b) *As of January 2018, there are 2,085 independent special districts in California.*
- (c) *Each special district focuses on a specific set of services, including, but not limited to, water, utilities, and parks.*
- (d) *Throughout California's history, special districts have empowered residents to find local solutions to fit the unique needs of their communities.*
- (e) *It is this local approach that continues to make special districts a popular method for delivering essential public services and infrastructure in communities throughout the state.*
- (f) *In order to further public access to information related to these essential services, it is the intent of the Legislature that each independent special district provide easily accessible and accurate information on an Internet Web site.*

SEC. 2. *Section 53087.8 is added to the Government Code, to read:*

53087.8. (a) (1) *Except as provided in subdivision (b), beginning on January 1, 2020, every independent special district, as defined in Section 56044, shall maintain an Internet Web site.*

(2) *The Internet Web site required by paragraph (1) shall conform to any other provisions of law applicable to the Internet Web site of the district, including, but not limited to, Sections 6270.5, 53893, 53908, and 54954.2 of this code, and Section 32139 of the Health and Safety Code.*

(3) *The Internet Web site required by paragraph (1) shall clearly list contact information for the independent special district.*

(b) (1) *An independent special district shall be exempt from subdivision (a) if, pursuant to a majority vote of its governing body at a regular meeting, the district adopts a resolution declaring its determination that a hardship exists that prevents the district from establishing or maintaining an Internet Web site.*

(2) *A resolution adopted pursuant to this subdivision shall include detailed findings, based upon evidence set forth in the minutes of the meeting, supporting the board's determination that a hardship prevents the district from establishing or maintaining an Internet Web site. The findings may include, but shall not be limited to, inadequate access to broadband communications network facilities that enable high-speed Internet access, significantly limited financial resources, or insufficient staff resources.*

(3) *A resolution adopted pursuant to this subdivision shall be valid for one year. In order to continue to be exempt from subdivision (a), the governing body of an independent special district shall adopt a resolution pursuant to this subdivision annually so long as the hardship exists.*

SEC. 3. *The Legislature finds and declares that Section 2 of this act, which adds Section 53087.8 to the Government Code, furthers, within the meaning of paragraph (7) of subdivision (b) of Section 3 of Article I of the California Constitution, the purposes of that constitutional section as it relates to the right of public access to the meetings of local public bodies or the writings of local public officials and local agencies. Pursuant to paragraph*

(7) of subdivision (b) of Section 3 of Article I of the California Constitution, the Legislature makes the following findings:

SECTION K10, PAGE NO. 8

By requiring independent special districts to maintain an Internet Web site, this act increases public access to public records and thereby furthers the purposes of paragraph (7) of subdivision (b) of Section 3 of Article I of the California Constitution.

SEC. 4. *No reimbursement is required by this act pursuant to Section 6 of Article XIII B of the California Constitution because the only costs that may be incurred by a local agency or school district under this act would result from a legislative mandate that is within the scope of paragraph (7) of subdivision (b) of Section 3 of Article I of the California Constitution.*

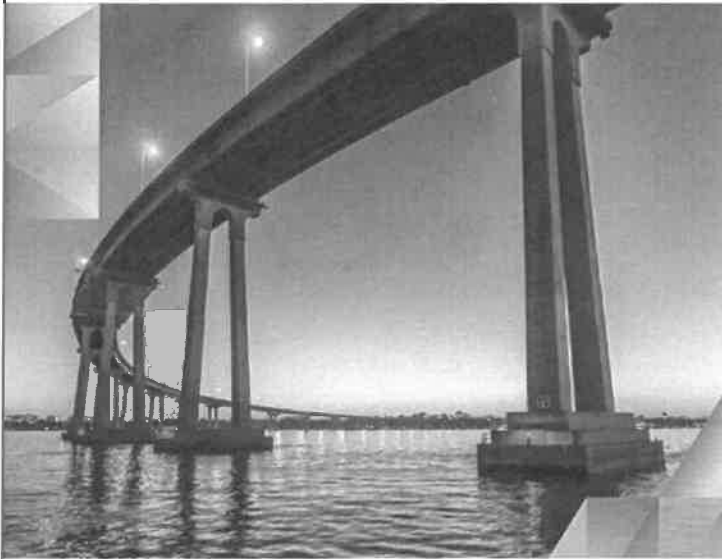
However, if the Commission on State Mandates determines that the act contains other costs mandated by the state, reimbursement to local agencies and school districts for those costs shall be made pursuant to Part 7 (commencing with Section 17500) of Division 4 of Title 2 of the Government Code.

~~SECTION 1. Section 53085 of the Government Code is amended to read:~~

~~53085. A local agency, as defined by Section 54951, may require an applicant for economic development loans, grants, or similar financial assistance to sign a statement under penalty of perjury that he or she has not been convicted of a felony.~~



EMOTIONAL INTELLIGENCE: MAKING THE DIFFERENCE IN LEADERSHIP



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WHEN:

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Event: 8:30 am - 11:30am
Registration: 8:00 am



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COST:

\$20 - Members
\$40 - Non-members



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By Friday, March 16, 2018
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ABOUT SOMMER KEHRL

Her background includes leading large-scale change management efforts, facilitating workshops, coaching leaders, and designing training programs.

Sommer has a Ph.D. and Masters degree in Industrial/Organizational Psychology from Alliant International University (formerly California School of Professional Psychology) and a Bachelor of Science in Psychology from Santa Clara University.



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ACWA



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ACWA ADVISORY

LEGISLATION | SAFE DRINKING WATER

March 16, 2018

ACWA Advocates for Balanced Alternative to Drinking Water Tax During Emotional Budget Subcommittee Hearings at the Capitol

This week during budget subcommittee hearings in the Assembly and Senate, ACWA and several member agencies testified in opposition to the drinking water tax proposed in the Brown Administration's budget trailer bill related to safe drinking water, and instead strongly advocated for ACWA's alternative funding proposal which would meet the goal of the proposed legislation without a tax on drinking water.

Wednesday's budget hearing included lengthy and emotional public testimony in support of the tax by dozens of men, women and children from disadvantaged communities that lack safe drinking water. ACWA's testimony at both hearings emphasized the water community's dedication to advancing solutions to this real and serious problem, while standing firmly in opposition to an impractical and unnecessary tax on drinking water.

Assembly Hearing – Wednesday, March 14

Cautioning attendees that the day's agenda was "packed," Assembly Budget Subcommittee No. 3 on Resources and Transportation Chair Richard Bloom (D-Santa Monica) began Wednesday's hearing with an initial announcement that he would limit public testimony to name, organization and position.

After working through 11 other issues on its agenda, the budget trailer bill proposal was taken up last by the committee. ACWA Director of State Legislative Relations Wendy Ridderbusch provided the lead opposition testimony during public comment.

"We support a credible and equitable funding mix – an alternative – that includes ongoing federal safe drinking water state revolving fund dollars, reliable general obligation water bond money, focused nitrate assessments and the state's general fund to create a funding source, for instance a protected and secured endowment fund, to pay for operation and maintenance costs," said Ridderbusch. "We feel that we need this balanced funding portfolio package to ensure that there is safe and affordable drinking water in the communities that don't have access to it."

"Why can't we work together? Why can't we try something different?" she added.

Representatives from ACWA member agencies and associates also testified in opposition to a drinking water tax and in support of ACWA's alternative funding proposal during public comment. Those agencies included: California Municipal Utilities Association, Irvine Ranch Water District, South Tahoe Public Utility District, Carmichael Water District, Hidden Valley Lake Community Services District, City of Santa Rosa, City of Burbank, Camrosa Water District, Yuba County Water Agency, East Valley Water District, Metropolitan Water District of Southern California, City of Fresno, United Conservation Water District, Zone 7 Water, Westlands Water District, Mojave Water District, Western Municipal Water District, Alameda County Water District, Eastern Municipal Water District, Mesa Water District, Santa Margarita Water District, Helix Water District, San Diego County Water Authority, Regional Water Authority, Elsinore Valley Municipal Water District, Las Virgenes Municipal Water District, Municipal Water District of Orange County, Monterey Peninsula Water Management District, City of Watsonville, and Otay Water District.

Opposition to the drinking water tax was also expressed by the League of California Cities, California Special Districts Association, and Howard Jarvis Taxpayers Association, among several others.

Those testifying in support of the proposed tax on drinking water included: Community Water Center, Western Growers, Environmental Defense Fund, Water Foundation and approximately 50 residents from disadvantaged communities that lack safe drinking water.

"Support this bill, or drink our water," they implored the subcommittee.

After hearing all testimony, the subcommittee opted to hold the item open to allow further consideration of the issues involved before making a decision. Additionally, to inform the subcommittee's deliberations, Bloom asked State Water Resources Control Board Chair Felicia Marcus to respond to opposition concerns that were raised during the hearing in a letter addressed to the subcommittee.

Senate Hearing – Thursday, March 15

Just as it had been the day before in the Assembly, the budget trailer bill was the last item on the agenda for the Senate Budget Subcommittee No. 2 on Resources, Environmental Protection, Energy and Transportation hearing. Interestingly, in discussing earlier agenda items, subcommittee members debated the merits of using the state's general fund versus special funds for issues of statewide importance. During that debate subcommittee Chair Bob Wieckowski (D-Fremont) appeared to be supportive of some uses of the general fund under this heading.

Ed Manning, who represents Mojave Water District, Westlands Water District, and Western Municipal Water District, kicked off public comments with a reminder to the subcommittee that the drinking water tax proposal before them has not received any review by a legislative policy committee. He also expressed his concerns with using the budget trailer bill process to vet high-priority, substantive policy issues rather than a transparent legislative policy committee process.

Ridderbusch then testified on behalf of ACWA continuing to deliver key messages regarding opposition to a drinking water tax and specifically highlighting recent ACWA-sponsored polling that shows that 74% of Californians believe the state should use existing funds for safe drinking water. Additionally, the polling shows that Californians believe it is not appropriate to tax a resource that is essential to life. She also expressed concerns over the precedent of the tax.

"It's not just going to be a dollar a month, like we've heard..." Ridderbusch said regarding the tax, noting that there are other parties vying for funds from a tax on water for many other purposes.

Following Ridderbusch's testimony many of the same ACWA member agencies and associates testified in alignment with ACWA's position. Orange County Water District, Rincon Del Diablo Municipal Water District, Olivenhain Municipal Water District, Padre Dam Municipal Water District, and Long Beach Water also weighed in to oppose a tax on drinking water.

Additionally, several other groups expressed opposition to the agricultural enforcement relief provisions included in the bill, citing inconsistency with the "polluter pays" principle, which was noted by the subcommittee.

Those testifying in support included many of the same organizations from the previous day's hearing in the Assembly but also several other organizations such as the Rural County Representatives of California, Public Health Advocates, and the American Heart Association, among others.

Throughout the discussion on the budget trailer bill, members of the subcommittee asked thought-provoking questions and voiced points consistent with ACWA's arguments.

Specifically, Wieckowski noted the problematic approach of requiring water districts to collect a tax on water with an exemption for those with income equal to or less than 200% of the federal poverty level when agencies have no mechanism to verify that information. Sen. Henry Stern (D-Canoga Park) expressed concerns regarding the nexus of the tax, asking if his constituents in Los Angeles could expect their safe drinking water needs to be addressed with the funding mechanism. At the conclusion of the hearing, Sen. Jim Nielsen (R-Gerber) reiterated earlier concerns related to using the budget trailer bill process rather than the policy committee process to vet such an important policy.

After hearing all testimony, the subcommittee opted to hold the item open to allow further consideration of the issues involved before making a decision.

Next Steps

ACWA is extremely thankful for the engagement of the many ACWA member agencies and associates that testified in opposition to a tax on drinking water during these hearings. Because the budget trailer bill was left open in both the Assembly and Senate, both budget subcommittees can choose to take up the bill at any time, without further public input. ACWA will carefully monitor the activity of these subcommittees.

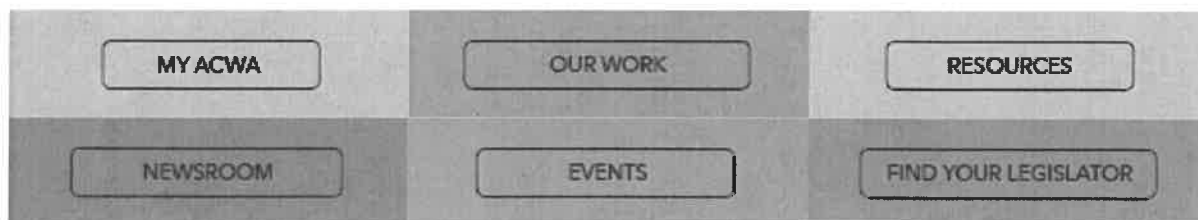
Additionally, ACWA members also should be aware that while SB 623 (Monning, 2017) could be moved from the Assembly Rules Committee at any time, action on SB 623 is not expected while the budget trailer bill is pending.

ACWA will keep members informed on critical developments as the budget trailer bill process advances, and if SB 623 is moved.

ACWA continues to lead a team of advocates that is lobbying the coalition's oppose-unless-amended position at the Assembly and the Senate.

Questions

For questions regarding the budget trailer bill or ACWA's advocacy on the bill, please contact ACWA Deputy Executive Director for Government Relations Cindy Tuck or ACWA Director of State Legislative Relations Wendy Ridderbusch. Both can be reached at (916) 441-4545.



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SAFE DRINKING WATER FUNDING AMONG HOT TOPICS AT ACWA LEGISLATIVE SYMPOSIUM

BY WILL HOLBERT MAR 14, 2018 WATER NEWS



ACWA's 2018 Legislative Symposium held today drew approximately 130 members and guests to the Sacramento Convention Center, where they learned about safe drinking water funding legislation and a proposal to increase groundwater replenishment.

ACWA Deputy Executive Director for Government Relations Cindy Tuck moderated a panel discussion on safe drinking water. Panel members included Sen. Bill

Monning (D-Carmel), the author of SB 623. His legislation provided the framework for a budget trailer bill that is now being considered at the Legislature. Eight-percent of the funding from this the budget trailer bill would come from a proposed tax on drinking water.

The tax proposal is the focus of a high-priority oppose-unless-amended campaign led by ACWA, which agrees with the intent behind the bill, but is advocating an alternative funding package that does not include a tax on drinking water.

In making his case, Monning highlighted the 2012 California Human Right to Water law.

"One million of our brothers and sisters don't have access to clean drinking water," Monning said. "We established the right. We have not established the solution."

Panel member Dave Puglia, executive vice president of Western Growers, joined Monning in supporting the proposal. He described the potential impact on irrigation water districts if the problem is left unsolved.

"The rate payers in their districts face an existential crisis if we do not solve the problem now," Puglia said about potential state enforcement actions against farmers if a solution for clean water access isn't enacted.

Also on the panel was Debby Cherney, deputy general manager of Eastern Municipal Water District. Cherney detailed the logistical challenges that local water agencies will face if forced to collect the tax for the state. She also spoke in favor of AB 2050, which would create a new process for consolidating small, unsustainable public water systems.

Ed Manning, of KP Public Affairs, also spoke in opposition to the tax, calling the issue “a classic general fund problem.”

Tuck made clear ACWA's strong support of providing access to safe drinking water a top priority. She pointed out that the Governor's proposed budget would have the general fund at over \$130 billion and that a small fraction of that could provide more than enough funding, along with other sources, instead of a tax on drinking water.

“Why can't a miniscule part of that money – budget dust – be dedicated to safe drinking water?” Tuck asked.

The second panel of the symposium, titled “Can't We Just Put the Water in the Ground?” explored the development of an administrative proposal that would streamline the process for groundwater replenishment during wet periods. Moderator Stefanie Morris, with Best Best & Krieger, led the discussion with David Aladjem, with Downey Brand, and Ryan Bezerra, with Bartkiewicz, Kronick & Shanahan.

Capping the symposium was a conversation between ACWA Executive Director Timothy Quinn and Assembly member Anna Caballero (D-Salinas). Among the topics they discussed were: the California Water Commission plan for allocating \$2.7 billion in Proposition 1 funding for storage projects; support for Proposition 68, the water bond on the June ballot; and her legislation AB 2050, which would create a new process for consolidating small public water systems. Regarding the allocation of the storage money by the Commission, she noted that the “Legislature and the voters said get it done.”

New Polling Shows 73% of Californians Oppose a Drinking Water Tax

On March 12, ACWA released key findings from a recent statewide poll showing that 73% of Californians oppose a tax on drinking water, such as the tax proposed in the Brown Administration's budget trailer bill and in SB 623 related to safe drinking water. ACWA staff presented these findings to legislators in a hand-delivered memo prior to their public release.

The poll was conducted by Tulchin Research, an independent research firm commissioned by ACWA to interview 1,000 likely voters between Jan. 25-28.

Among some of the top reasons cited for their opposition, Californians emphasized the already-too-high cost of living in the state and the belief that the state should not tax a life-sustaining resource such as drinking water.

Additionally, the poll shows that 74% of Californians believe the state should use existing resources to assist disadvantaged communities without safe drinking water, such the alternative funding sources being proposed by ACWA and its No Drinking Water Tax Oppose-Unless-Amended Coalition.

While ACWA agrees with the intent of the budget trailer bill, which is to fill gaps in funding for safe drinking water in some disadvantaged communities, it strongly opposes a tax on drinking water as a proposed solution. ACWA continues

to advocate for a more appropriate alternative package which includes funding from federal safe drinking water dollars, money from voter-approved general obligation bonds, the assessments related to nitrates proposed in the budget trailer bill and a limited amount of dollars from the general fund

"ACWA is advancing for a funding package comprised of a variety of sources, both existing and proposed, including a relatively small amount of general fund money to resolve this issue without a tax on drinking water," said ACWA Executive Director Timothy Quinn. "If state leaders are willing to make this societal problem a priority, general fund dollars can be part of the solution."

ACWA distributed a news release on March 13 highlighting the poll results.

Additionally, as *ACWA News* went to print March 14, ACWA and several member agency representatives were scheduled to testify against the proposed tax on drinking water included in the budget trailer bill during Budget Subcommittee hearings in the Assembly on Wednesday and the Senate on Thursday.

ACWA Director of State Relations Wendy Ridderbusch was slated to testify on behalf of ACWA. Due to the timing of the hearings, more detailed coverage is planned for ACWA's website.

On March 7, ACWA's No Drinking

Water Tax Oppose-Unless-Amended Coalition sent a letter opposing the budget trailer bill to the chairs of the Senate Budget Subcommittee No. 2 and the Assembly Budget Subcommittee No. 3. The letter listed 136 organizations that have an oppose-unless-amended position on the bill.

In addition to outlining ACWA's alternative funding proposal, the letter also details the coalition's key concerns with the proposal for a tax on drinking water. Those concerns include the fact that adding a tax on water works against the goal of keeping water affordable for all Californians and considerations such as the inefficiency of turning local water agencies and cities across the state into taxation agencies for the state of California.

Over the past few weeks, ACWA's No Drinking Water Tax Oppose-Unless-Amended Coalition has grown to 136 members and continues to add members on a daily basis. As members add on, ACWA will update its letter. A copy of the coalition's most recent letter and the list of coalition members can be found on ACWA's website at www.acwa.com/no-water-tax.

If your agency would like to join ACWA's No Drinking Water Tax Oppose-Unless-Amended Coalition, please contact ACWA State Relations Analyst Melissa Sparks at melissas@acwa.com.

73% of Californians oppose a tax on drinking water

74% of Californians believe the state should use existing resources to assist disadvantaged communities without safe drinking water



RREDC/RCEA



Redwood Coast Energy Authority

633 3rd Street, Eureka, CA 95501

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E-mail: info@redwoodenergy.org Web: www.redwoodenergy.org

SECTION L4 PAGE NO. 1

REGULAR MEETING CANCELLATION NOTICE

**Humboldt Bay Municipal Water District Office
828 7th Street, Eureka, CA 95501**

**March 19, 2018
Monday, 3:15 p.m.**

RCEA will accommodate those with special needs. Arrangements for people with disabilities who attend RCEA meetings can be made in advance by contacting Lori Taketa or front office staff at RCEA, 633 3rd Street, Eureka, or by calling 269-1700, or by e-mail at Ltaketa@redwoodenergy.org, by noon the day of the meeting.

The Redwood Coast Energy Authority
Board of Directors
March 19, 2018, regular meeting
has been cancelled due to lack of quorum.

NEXT REGULAR MEETING

Monday, April 16, 2018, 3:15 p.m.
Humboldt Bay Municipal Water District Office
828 7th Street, Eureka, CA 95501



Redwood Coast Energy Authority

633 3rd Street, Eureka, CA 95501

Phone: (707) 269-1700 Toll-Free (800) 931-RCEA Fax: (707) 269-1777

E-mail: info@redwoodenergy.org Web: www.redwoodenergy.org

MEETING MINUTES

**Humboldt Bay Municipal Water District Office
828 7th Street, Eureka, CA 95501**

**February 26, 2018
Monday, 3:15 p.m.**

RCEA will accommodate those with special needs. Arrangements for people with disabilities who attend RCEA meetings can be made in advance by contacting Lori Taketa or front office staff at RCEA, 633 3rd Street, Eureka, or by calling 269-1700, or by e-mail at Ltaketa@redwoodenergy.org, by noon the day of the meeting.

ROLL CALL

Board Chair Woo called the meeting to order at 3:15 p.m.

Present: Dan Brown, Austin Allison, Bobbi Ricca, Sheri Woo, Michael Winkler, Dwight Miller, Frank Wilson, Dean Glaser.

Absent: Estelle Fennell.

1. REPORTS FROM MEMBER ENTITIES

Director Allison reported that the Eureka City Council dissolved its Energy Committee, which was experiencing quorum issues.

Director Glaser inquired whether there was a fee to use electric vehicle charging stations.

Director Winkler said there were three bills before the State Legislature regarding building electrification and moving away from natural gas use. He is inquiring whether the City of Arcata will take a position on these and is interested in RCEA potentially also taking a position.

2. ORAL COMMUNICATIONS

This time is provided for people to address the Board or submit written communications on matters not on the agenda. At the conclusion of all oral and written communications, the Board may respond to statements. Any request that requires Board action will be set by the Board for a future agenda or referred to staff.

Executive Director Matthew Marshall provided written comments submitted to the Board by member of the public Ellen Golla. Two typos in the draft minutes that were corrected after the original packet was distributed were also pointed out.

3. CONSENT CALENDAR

All matters on the Consent Calendar are considered to be routine by the Board and are enacted on one motion. There is no separate discussion of any of these items. If discussion is required, that item is removed from the Consent

Calendar and considered separately. At the end of the reading of the Consent Calendar, Board members or members of the public can request that an item be removed for separate discussion.

- 3.1 Approve Minutes of January 22, 2018, Regular Board Meeting.
- 3.2 Approve Warrants.
- 3.3 Accept Financial Reports.

Chair Woo pulled consent calendar items 3.2 and 3.3.

M/S/C: Miller, Ricca: Approve consent calendar items with the exception of 3.2 and 3.3.

4. REMOVED FROM CONSENT CALENDAR ITEMS

Items removed from the Consent Calendar will be heard under this section.

Director Woo asked for additional information on the the payment to First Lighting Systems, and also for clarification on the year-to date-net income and reserve contributions budget.

Staff explained that a payment in the warrants to First Light Systems was an Energy Watch Program incentive paid to a contractor for doing a lighting retrofit project. This payment is based on energy savings, not on the contractor's bill amount.

Regarding the financial reports, staff explained that there is a lag of up to two-months between when the agency pays wholesale power bills and when customers pay their utility bills. During this time the agency floats cash flow on the revenue side. So, while net revenue on an accrual basis is on track, contributions to the reserve fund are being delayed until after the operating account is adequately funded to cover cashflow needs.

M/S/C: Glaser, Winkler: Approve consent calendar items 3.2 and 3.3.

5. OLD BUSINESS

5.1 Community Advisory Committee (CAC) Membership

Appoint Craig Mitchell to the Humboldt Bay Municipal Water District seat and reappoint Matty Tittman to the County 2 (Southern Humboldt) seat on the CAC.

Establish ad-hoc CAC at-large candidate Board subcommittee to review and recommend applicants to fill the four at-large vacancies.

Director Glaser asked that the Fortuna seat be left open until an interested community member applies. Humboldt Bay Municipal Water District nominee Craig Mitchell introduced himself to the Board. He is an engineering student at Humboldt State University focusing on renewable energy and a former Humboldt-based Coast Guard electrician.

M/S/C: Miller, Ricca: Appoint Craig Mitchell to the Humboldt Bay Municipal Water District seat and reappoint Matty Tittman to the County 2 (Southern Humboldt) seat on the CAC.

Directors Winkler and Sweeney agreed to review Community Advisory Committee at-large seat applications and recommend members for appointment. The Board agreed that two directors were sufficient for this subcommittee.

M/S/C: Miller, Ricca: Establish ad-hoc CAC at-large candidate Board subcommittee to review and recommend applicants to fill the four at-large vacancies, and appoint Director Michael Sweeney and Director Michael Winkler to the candidate review subcommittee.

6. NEW BUSINESS

6.1 FY15-16 Fiscal Audit

Accept and approve FY15-16 Independent Fiscal Audit Report.

Director of Finance and Human Resources Steve Edmiston provided an overview of the audit and stated that his goal is to present the FY 2017 audit to the Board before the end of the fiscal year.

Board members expressed appreciation that the agency is working to address the auditor's findings and recommendations. Staff Director Edmiston confirmed that all findings are being addressed and that the audit states the agency is in a favorable position. Chair Woo and Director Glaser stated that addressing the audits' findings and completing both the audits and budgets in a timely manner are important because of the agency's growth and the public's need to know that funds are being handled properly.

M/S/C: Winkler, Miller: Accept and approve FY 15-16 Independent Fiscal Audit Report.

6.2 Mid-Year Budget Review (no action, information only)

Executive Director Marshall presented information on RCEA's budget, pointing out that electricity sales revenue and wholesale power supply costs are by far the largest part of the agency's budget, with the other significant expense categories being personnel and professional and program services (such as from TEA and Calpine Energy Solutions). Director Marshall stated that the RCEA budget is generally on track overall for fiscal year 2017-18, with both revenues and expenses slightly below projections.

COMMUNITY CHOICE ENERGY (CCE) BUSINESS (Confirm CCE Quorum)

Items under this section of the agenda relate to CCE-specific business matters that fall under RCEA's CCE voting provisions, with only CCE-participating jurisdictions voting on these matters with weighted voting as established in the RCEA joint powers agreement.

7. OLD CCE BUSINESS

7.1. Energy Risk Management Quarterly Report (no action, information only)

Director of Power Resources Richard Engel reviewed RCEA's energy risk management policy and the agency's compliance with the policy. The policy's goals include keeping rates competitive with PG&E's and building program reserves. He stated RCEA may eventually need one or more regulatory analyst staff positions to increase regulatory monitoring and analysis, as other community choice aggregators have.

Director Wilson pointed out public confusion over some customers being enrolled in to the community choice energy (CCE) program and then being inadvertently opted out. Board members also requested more local news, cable television and mail outreach, especially to older residents, explaining how customers save money by participating in the program. Director Wilson suggested that some misunderstandings originated when the CCE program began and the CCE charges replaced PG&E generation charges on the bill; PG&E increased its rates around the same time, making it appear that higher rates were due to RCEA's new program.

Staff said additional information comparing and explaining PG&E and CCE rates can be added to the RCEA website and that the PG&E and RCEA joint rate mailer will be sent out in July of every year going forward.

The Energy Authority's (TEA's) Shehzad Wadalawala presented 2018 revenue scenario charts comparing a continuation of current electricity rates against a rate that is 3 percent below PG&E's rates. He reported that TEA finds the management of RCEA's CCE program responsible and diligent in managing costs. Executive Director Marshall reminded the Board that TEA strongly recommends building a large reserve fund as soon as possible to manage risks associated with future uncertainties.

8. NEW CCE BUSINESS

8.1 2018 CCE Program Rate Setting

Adopt Resolution No. 2018-2 of the Redwood Coast Energy Authority Setting Community Choice Energy Program Rates for 2018.

Director of Power Resources Richard Engel reported that PG&E's electrical generation rate increase and transmission rate decrease that go into effect on March 1 result in an approximately 1% electricity rate increase for most customers. The proposed 2018 RCEA rates increase customer rate savings from 2017, adjusting RCEA generation rates from 2.7% below PG&E's rates to 3% below. This would put the program on track to meet or exceed the targeted \$2 million in total customer rate savings. These rate changes affect power generation rates which make up about 40-50% of the total electricity bill. RCEA's CCE customers, therefore, see rates that are 1.5% less than if they were PG&E customers.

M/S/C: Miller, Glaser: Adopt Resolution No. 2018-2 of the Redwood Coast Energy Authority Setting Community Choice Energy Program Rates for 2018.

Ayes: Brown, Allison, Ricca, Winkler, Miller, Wilson, Glaser

Noes: None
Absent: Fennell
Not Voting: Woo

8.2 Public Agency Solar Program

Approve establishment of the Pilot Public Agency Solar Program, with initial funding of \$170,000 for the remainder of calendar year 2018.

Director of Power Resources Engel reported that RCEA has fielded requests from local agencies for assistance with installing solar energy projects at their facilities. These local agencies often lack the staff capacity to plan and manage such projects. The electricity rates the Board just approved would allow RCEA to allocate up to \$400,000 for energy-related customer programs. Staff proposes using \$170,000 of those funds for a pilot project to assist local agencies with energy efficiency and solar energy projects. Staff clarified that RCEA's funding would be for technical assistance with project scoping, bid solicitation, and obtaining financing, rather than providing incentives or rebates.

Directors provided input to staff that the pilot should be implemented with a process to ensure equitable access to the program.

M/S/C: Miller, Allison: Approve establishment of the Pilot Public Agency Solar Program, with initial funding of \$170,000 for the remainder of calendar year 2018.
Ayes: Brown, Allison, Ricca, Winkler, Miller, Wilson, Glaser
Noes: None
Absent: Fennell
Not Voting: Woo

8.3 CCE-Funded Customer Programs

Discuss and provide direction to staff on a process for designing and budgeting CCE-funded customer programs.

Director of Business Development and Planning Lori Biondini requested direction for a process to add or continue funding for customer programs that fit the board's Community Choice Energy program guidelines adopted in September 2016.

The Board discussed a potential process of having staff do technical analyses comparing different proposed programs and working with the Community Advisory Committee (CAC) to evaluate options and recommend programs to the Board. Counsel Diamond recommended that a designated staff person field requests from the public and present them to the CAC. Reviewing and potentially updating the 2016 Board Guidelines for CCE-funded customer program along with a potential program evaluation and selection process will be placed on the agenda for a future Board meeting.

END OF COMMUNITY CHOICE ENERGY (CCE) BUSINESS

9. STAFF REPORTS

9.1 Executive Director

Executive Director Marshall responded to Director Glaser's earlier question about electric vehicle (EV) charging stations stating that RCEA-operated stations require payment (at rates lower than the equivalent cost of gasoline); Tesla stations are free but exclusively for use by Tesla drivers. Other charging stations sometimes charge for use and sometimes businesses offer free charging to their customers as an incentive.

- Report on Governor's Office of Planning and Research Eureka workshop.

RCEA assisted in hosting a well-attended meeting that addressed regional energy and resiliency planning as well as the recent update to the Office of Planning and Research's General Plan Guidelines.

- Update on Humboldt County Airport Microgrid Project.

The California Energy Commission awarded HSU's Schatz Energy Research Center a \$5 million grant for this project. Construction is expected to begin in the summer of 2019. RCEA will be helping to fund the project by financing a large portion of the solar and battery-storage components of the project element with a low-interest USDA rural electricity loan. RCEA will own the solar and battery system and the loan will be repaid over time through revenue from the operation of the system.

- Offshore Wind Update.

Responses to RCEA's request for qualifications are due on February 28. Public exposure in the local media has been positive and the agency will host open house informational meetings in the next week.

9.2 Director of Power Resources

- Update on biomass impact report.

Director Engel made an interim presentation on biomass energy's job impacts, greenhouse gas (GHG) impacts and mill waste use. Staff is in discussion with Schatz Energy Resource Center about how RCEA may benefit from information from the California Biopower Impact Project, which will create a model of greenhouse gas impacts of biomass power. Results are expected by the end of 2018.

Member of the public and DG Fairhaven Power representative Bob Marino stated that they are working with California Independent Systems Operator to complete a necessary meter re-certification to restart their operations, and

stated that in addition to rehiring DG Fairhaven employees the operation of power plant will benefit fuel suppliers and other local contractors.

DISCLOSURE OF ITEMS TO BE DISCUSSED IN CLOSED SESSION

The Redwood Coast Energy Authority Board of Directors will meet in closed session to consider the items listed under agenda item number 11, "Closed Session."

9. PUBLIC COMMENT REGARDING THE CLOSED SESSION ITEM(S)

There being no public comment on the closed session agenda item, Chair Woo adjourned the meeting into closed session at 5:35 p.m.

10. CLOSED SESSION

With respect to every item of business to be discussed in closed session pursuant to Government Code Section 54957.6:

10.1. Labor Negotiations, unrepresented employee, Executive Director

11. RECONVENE TO OPEN SESSION

12. REPORT FROM CLOSED SESSION

Board Chair Woo reported the Board approved revising Executive Director Marshall's salary step from 1 to 2 effective February 1, 2018.

M/S/C: Miller, Winkler: Approve Amendment to Employment Agreement of Executive Director, Revising Salary from Step 1 to 2 Effective February 1, 2018.

AYES: Unanimous

NOES: None

ABSENT: Fennell

13. ADJOURNMENT

Board Chair Woo adjourned the meeting at 6:04 p.m.

Respectfully submitted: Lori Taketa

Subject: FW: RREDC Board NOT MEETING in MARCH

From: Shirley Santino <shirley@rredc.com>

Subject: RREDC Board NOT MEETING in MARCH

Hello RREDC Board members and Alternates.

You will NOT have a board meeting this month (regularly scheduled for March 26th at 6:30pm). Gregg Foster and our CPA Suzanne Dockal will both be out of town

Your next RREDC meeting is April 23rd at 6:30pm, which will include the public hearing of the draft FY 2018-19 budget, discussion, and possible adoption by the board.

The executive committee, however, will meet about a loan at 4pm on 3/26.

Thanks, and enjoy your free evening! I will send a reminder about the cancellation closer to the date.

Let me know if you have any questions or concerns.

Yours,

Shirley Santino

Redwood Region Economic Development Commission

707-445-9651 x 200