



HUMBOLDT BAY MUNICIPAL WATER DISTRICT

Board of Directors Meeting

December 8th, 2022



Ruth Lake 2021



**Humboldt Bay Municipal Water
District 828 7th Street, Eureka**



**Agenda for Regular Meeting of the Board of Directors
December 8th, 2022**

Meeting Start Time: 9:00 AM

District Mission

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. Protect the long-term water supply and water quality interests of the District in the Mad River watershed.

COVID-19 Notice

The Board room at 828 7th street will be open to the public at reduced capacity to accommodate social distancing. An online option will also be available.

Members of the public may join the meeting online at:

<https://us02web.zoom.us/j/86710296323?pwd=MjZldGxRa08wZ0FWOHJrUjNhZnFLQT09>

Or participate by phone: 1-669-900-9128 Enter meeting ID: 867 1029 6323 Enter password: 484138

If you are participating via phone and would like to comment, please press *9 to raise your hand.

How to Submit Public Comment: Members of the public may provide public comments via email until 5 pm the day before the Board Meeting by sending comments to office@hbmwd.com. Email comments must identify the agenda item in the subject line of the email. Written comments may also be mailed to 828 7th Street, Eureka, CA 95501. Written comments should identify the agenda item number. These comments will be read during the meeting. Comments received after the deadline will be included in the record but not read during the meeting. If participating in the meeting, public comments will also be received during the meeting.

Time Set Items:

10.3	Resolution Recognizing and Honoring Bill Wardrip	9:10 AM
9.2	McNamara & Peepe	9:15 AM
11.2	Engineering	11:00 AM
11.1b	CLOSED SESSION – Anticipated Litigation (DTSC)	11:30 AM
11.1c	CLOSED SESSION – Active Litigation (Van Duzen)	1:30 PM

The Board will take a scheduled lunch break from 12:00 pm to 1:30 pm.

1. ROLL CALL

2. FLAG SALUTE

3. OATH OF OFFICE

Oath of Office for Director Rupp and Director Fuller.

4. ACCEPT AGENDA

5. 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 allowed to address items that are on the agenda at the time the Board takes up that item. Under the Brown Act, the Board may not take action on any item that does not appear on the agenda.

6. **MINUTES**

6.1 November 10th, 2022 Regular Board Meeting Minutes* — discuss and possibly approve

7. **CONSENT AGENDA** - *These matters are routine in nature and are usually approved by a combined single vote unless an item is pulled for discussion*

7.1 Media articles of local/water interest (Articles A – G)* — possibly approve

8. **CORRESPONDENCE**

8.1 Letter from US Forest Service RE: Mad River August Complex Restoration Project #60286* — discuss

8.2 Letter from DWR RE: UWMP requirements met* — discuss

8.3 HBMWD letter to Ruth Lake CSD* —discuss

8.4 Letter from US Forest Service RE: Cedar Seedlings* —discuss

8.5 Letter from US Forest Service RE: Blocking access roads* —discuss

9. **CONTINUING BUSINESS**

9.1 Water Resource Planning - status report on water use options under consideration

a. Local Sales

i. Nordic Aquafarms — discuss

ii. Trinidad Rancheria Mainline Extension — discuss

b. Transport- no update

c. Instream Flow— discuss

9.2 McNamara & Peepe;

(Time set 9:15 AM)

a. HBMWD letter to DTSC RE: site visit* —discuss

b. SHN Work Order No. 1*— discuss

c. HBMWD letter to DTSC RE: ground water report*—discuss

9.3 CALFIRE Fire Fuels Reduction & Defensible Space Project* — discuss and possibly award contracts

10. **NEW BUSINESS**

10.1 **CLOSED SESSION- this will be the last item on the agenda**

Public Employee Performance Evaluation for General Manager (pursuant to Section 54957(b)(1).

i. Open Session report out

10.2 Employee Handbook Revision – Holiday Pay* — discuss and possibly approve

10.3 Resolution 2022-10 Recognizing and Honoring Bill Wardrip* —discuss and possibly approve

(Time set 9:10)

10.4 Ruth Lake Lease Lot 17 request — discuss and possibly approve

11. **REPORTS (from STAFF)**

11.1 **Legal**

a. Waiver of Conflicts of Interest* — discuss and possibly approve

b. **CLOSED SESSION** — Conference with Legal Counsel – Anticipated Litigation: Initiation of litigation pursuant to paragraph (4) of subdivision (d) of § 54956.9 (DTSC) **(Time set 11:30 AM)**

c. **CLOSED SESSION** — Conference with Legal Counsel – Existing Litigation: Initiation of litigation pursuant to paragraph (1) of subdivision (d) of § 54956.9 (Van Duzen) Case # CV2201489 **(Time set 1:30 PM)**

11.2 Engineering (Time set 11:00 AM)

- a. 12 kV Switchgear Relocation (\$858,332 District match) — status report
- b. Collector Mainline Redundancy Project — status report
- c. TRF Generator Project (\$517,819 District match) — status report
- d. Matthews Dam Advance Assistance Seismic Stability Project — status report
- e. Reservoirs Seismic Retrofit Project — discuss
- f. Status report re: other engineering work in progress

11.3 Financial

- a. November 2022 Financial Statement & Vendor Detail Report* — discuss and possibly approve
- b. Caselle Accounts Receivable Module* — discuss and possibly approve new budget line item

11.4 Operations

- a. Monthly report on projects and operations* — discuss
- b. Surplus equipment request - 2006 Ford F-550 single cab with a AT37G Manlift* — discuss and possibly approve

12. MANAGEMENT

- 12.1 ACWA Fall Conference* — report out
- 12.2 CSDA Board Secretary Conference* — report out
- 12.3 Regional Roundtable Listening Session on Infrastructure* — discuss
- 12.4 Humboldt County CEDS* — discuss
- 12.5 Humboldt Bay Harbor and Conservation District – Draft Letter* — discuss
- 12.6 Education of Wholesale Customer elected officials about the HBMWD system — discuss

13. DIRECTOR REPORTS & DISCUSSION

13.1 General - comments or reports from Directors

13.2 ACWA

- a. Director report out, if any
- b. ACWA Fall Conference — report out

13.3 ACWA – JPIA

- a. Director report out, if any
- b. ACWA-JPIA Fall Conference — report out
- c. JPIA President’s Special Recognition Award Certificate* — discuss
- d. Executive Committee Meeting Agenda 11-14-22* — report out

13.4 Organizations on which HBMWD Serves

- a. RCEA Board of Directors Draft Meeting Agenda 11-17-22* — report out
- b. RCEA Board of Directors Meeting Minutes for 10-27-22* — report out
- c. RREDC Special Meeting of 11-28-22 Cancellation* — discuss

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 December 2nd, 2022.)

Minutes



HUMBOLDT BAY MUNICIPAL WATER DISTRICT
828 7th Street, Eureka



Minutes for Meeting of Board of Directors
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District Mission

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. Protect the long-term water supply and water quality interests of the District in the Mad River watershed.

A. ROLL CALL

President Woo called the meeting to order at 9:00 AM. Director Rupp conducted the roll call. Directors Fuller, Latt, Lindberg, Rupp, and Woo were present. General Manager John Friedenbach, Superintendent Dale Davidsen, Business Manager Chris Harris were also present. Legal Counsel Ryan Plotz, District Engineer Nathan Stevens and Michael O'Conner (R.J. Ricciardi, Inc.) participated via Zoom. GM John Friedenbach was excused briefly to attend a meeting with the USDA Forest Service as described in Correspondence item #7.1.

B. FLAG SALUTE

President Woo led the flag salute.

C. ACCEPT AGENDA

Agenda was accepted as written on motion by Director Latt, seconded by Director Lindberg. The Board voted 5-0 to approve the agenda with edits requested.

D. MINUTES

On motion by Director Latt, seconded by Director Rupp, the Board voted 5-0 to approve the Minutes of the October 8, 2022, Regular Meeting with edits requested.

E. PUBLIC COMMENT

No public comment was received.

F. CONSENT AGENDA

President Woo made the request that staff ensure the source be prominent all news articles. On motion by Director Rupp, seconded by Director Lindberg, the Board voted 5-0 to approve the Consent Agenda.

G. CORRESPONDENCE

Letter from HBMWD: RE: Mad River August Complex Restoration Project #60286 to US Forest Service

The District sent a letter of objection to the UF Forest Service's project #60286. . The proposed project area comprises 56,000 acres in the Six Rivers National Forest Mad River District jurisdiction, and this project only addresses about 14% of that area. Concerns about water quality, sediment erosion that can impact the lake, hazard trees getting past the boom, and potential of damage to the Dam are reasons it is imperative that the Forest Service increase the footprint and timing of this project. During the Board meeting, GM Friedenbach excused himself to participate in the Objection Hearing with the USDA Forest Service regarding the project to provide oral testimony. The determination from the hearing will be published at a later date.



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Email from Ruth Lake Leaseholders Association: RE: Liability Insurance Limits

An email was received from the Ruth Lake Leaseholders Association discussing the sublease agreement regarding an increase in insurance liability requirements for the upcoming 10-year renewal cycle. The Leaseholders Association stated they did not support an increase in requirement higher than the current \$500,000 insurance amount. Staff had previously suggested a possible increase to \$1 million in insurance coverage. Director Rupp contemplated that a larger policy limit may be too expensive in today's economy with the drastic rise in insurance rates. Concern was expressed that with inadequate insurance, the burden will fall on ratepayers if the District is sued. The Board agreed that the balance between the rising costs of insurance and the potential impact on the ratepayers needs to be explored further.

GM Friedenbach also sent an email to GM Canale at RLCSO requesting consideration for additional sublease changes and possible penalty provisions to consider as the SubLease term renews;

- Structure improvements without approval from RLCSO, HBMWD or Trinity County
- Grading without approval by the 3 entities
- Water theft from the lake or Mad River Tributaries that feed into the lake.
- Subleasing of property (converting their property from recreational use to income-producing use).
- Any act that harms water quality of Ruth Lake
- Unauthorized cutting of trees or removal of stumps.
- Non-compliance with Ruth Lake docks policies. (Dam damage possibility)

Suggestion of non-compliance with RLCSO policies potentially resulting in fine or possible termination of lease.

A meeting between the Ruth Lake Committee for the District and RLCSO regarding these suggestions and further insurance concerns including being listed on policies as Additional Insured has been requested and will be scheduled.

Annie & Mary Trail Connectivity Project – Initial Study / MND comment period

Email GM Friedenbach received from City of Arcata (CofA) regarding the Initial Study/Mitigated Negative Declaration prepared and circulated by the Environmental Services Department. GM Friedenbach attended a portion of the Parks and Recreation Committee Meeting on November 9th, 2022. A site visit took place on September 22nd, 2022. CofA was made aware of the conflict between the 12kV occupying the railroad right of way next to Essex, as that project was in process before the Trail Project was started. The challenges to creating a path around the project were taken back to their design team. The anticipated next step is the right-of-way acquisition. GM Friedenbach said that the District will be alerted when a possible easement/dedication request is made by the CofA. An appraisal would be required to value an easement and will be scheduled at the appropriate time. Consideration will also be given to the trail's impact on District bathroom facilities and garbage increase in Park 1.



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H. CONTINUING BUSINESS

Water Resource Planning

Local Sales

Nordic Aquafarms

A Lost Coast Outpost article released November 9th, 2022 reported a lawsuit was filed by an informal group *Citizens Protecting Humboldt Bay* against Humboldt County alleging that the Board of Supervisors violated the California Environmental Quality Act (CEQA). The article also states that five appeals have been filed with the California Coastal Commission regarding the project. This may delay Nordic's progress of acquiring the Conditional Use Permit process.

Trinidad Rancheria Mainline Extension

GM Friedenbach provided an update on the progress of the water line extension. The Rancheria submitted a letter to CalTrans requesting the placement of the water line on the 101 bridge crossing Little River. The District received an email from Don Allan, a resident of Westhaven, who opposed the water line being included in the Little River trail project. CalTrans' recommendation was to request attaching the pipeline to the bridge separate from the trail. Director Latt stated that our District is not forcing water on anybody and expressed that the District did a very thoughtful approach in inquiring to each potentially affected governmental entity, including Westhaven and the City of Trinidad, as to whether each was interested in participating, both indicating they weren't, although Westhaven Fire District indicated that they would want potentially to hook up to the pipeline for their own fire protection if the pipeline was built. Director Latt stated that under federal law as a recognized federal tribe, the Trinidad Rancheria has a legal right to economic development and that their request arises directly from that right. The Directors expressed support and agreement with Director Latt's comments.

Transport:

GM Friedenbach included an article outlining the recent contribution of \$30M from the Biden Administration to the Sites Reservoir Project from the Bipartisan Infrastructure Law.

Instream Flow

GM Friedenbach introduced the draft narrative for the District's Petition for Change, dedicating a portion of our existing water rights to Instream Flow beneficial use from Matthew's Dam to Essex, about 70+ miles of river. This has been discussed with local regulators. GM Friedenbach presented the draft narrative to the Board for consideration and review. Staff will contact the Water Board regarding a formal petition submittal. The actual form required is modest but the District will also attach a final synopsis of information including this narrative and studies.

President Woo gave an informative description of the information included in the draft narrative. Our water rights are outlined on page 1. Summed up by GM Friedenbach as the diversion of water for storage at Matthew's Dam and it is released and "rediverted" at Essex.

Director Latt suggested that the paragraph on page 4 regarding Cannabis cultivation distinguish between legal and illegal Cannabis production because there are farms within the watershed that are legal and regulated and the concern should clarify that the District is not against all Cannabis cultivation but rather the impact of the problematic, unregulated cultivation.

President Woo also advised that this will have a handshake agreement with the District Habitat Conservation Plan (HCP). She also pointed out that the unique fashion of operation of the Dam is clearly outlined.



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McNamara & Peepe

President Woo recused herself due to a conflict of interest and left the room.

A site visit to the Glendale property, initiated by the EPA (Region 9) regarding the District's request to take over site clean-up in August took place on November 4th, 2022. GM Friedenbach and Director Fuller attended along with EPA staff, DTSC staff and SHN acting consultants, SWAPE, and Royal Gold staff. Also attending were Jen Kalt from Humboldt Baykeeper and John Driscoll from Congressman Huffman's office. DTSC stated they had \$200,000 in funding and possibly another \$2 million has been earmarked for the site.

GM Friedenbach reported that testing at Collectors 1-4 and soil sediment at the Turbidity Reduction Facility resulted in a Non-detect for Dioxin and PCP at all locations.

Jennifer Kalt from Baykeeper expressed her appreciation via Zoom for the site visit and all the work the District has done to ensure the Glendale site is being cleaned of toxic substances. This has been a priority concern for Baykeeper and she expressed excitement to see the progress.

Quagga Grant 2020-21; Final Report

The District received grant funding from the Quagga and Zebra Mussel Infestation Prevention Grant Program. The final step is to prepare a report on the project findings and progress will be submitted by November 20th deadline. This report was diligently prepared by Ms. Sobol, who worked with Ruth Lake CSD to gather all the required information.

GM Friedenbach mentioned that the District is retaining control over the acquisition and placement of the boulder and bollards that are included in this grant and the two subsequent grants. District staff has identified additional locations at the lake where illegal access is a concern and may warrant additional boulders or bollards.

Shoreline Debris Removal Update (FEMA Project)

FEMA provided \$97k for the August Wildfire Complex Disaster's Shoreline Debris Removal to prevent debris reaching the log boom, which could potentially cause Dam damage and possible failure by blocking the spillway. This project was started this month. Ms. Harris provided an update to the Board on the progress being made. The collection of logs which are towed across the lake by boat to the eastern shoreline, then excavators haul logs to burn piles. Mr. Jager is supervising the team of contract workers acting to clear the debris.

Sample Contract for Fire Fuels Reduction & Defensible Space Project

The District was awarded \$500k by CalFire for fire fuels reduction, these funds will be used for property not impacted by the August Complex Wildfire. A sample contract for subcontractors to perform this work is included in the Board Packet and next month staff will provide a complete report, including the RFP and bid submittals. CalFire in their CEQA divided up the area into phases. The District divided those phases into sub-phases so contractors can bid on individual sub-phases, which each have unique degrees of defensible space and/or ingress/egress improvements.

I. NEW BUSINESS

No new business items.



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J. **REPORTS (from Staff)**

Legal

CLOSED SESSION – Anticipated Litigation: Initiation of litigation pursuant to paragraph (4) of subdivision (d) of § 54956.9 (DTSC) President Woo recused herself from participation in Closed session due to a conflict of interest. Closed session lasted from 11:30 AM to 12:02 PM. No public comment was received prior to entering the Closed session. Director Latt reported that Staff was directed to draft letters to DTSC regarding the October 22nd groundwater test results and the November 4th site visit.

CLOSED SESSION - Conference with Legal Counsel – Anticipated Litigation: Initiation of litigation pursuant to paragraph (4) of subdivision (d) of § 54956.9 (Van Duzen) Case # CV2201489 Vice-President Latt recused himself from participation in Closed session due to a conflict of interest. Closed session lasted from 1:30 PM to 1:38 PM. No public comment was received prior to entering Closed session. President Woo reported there was no reportable action.

Engineering

12kV Switchgear Relocation (\$858,332 District match)

Switchgear manufacturer Eaton provided a revised arc flash electrical study that is being reviewed. Mr. Stevens and staff have identified various additional corrections that need to be incorporated into a revised study due to system changes that are not a part of the 12kV project itself. Various electrical upgrades performed by Humboldt Bay staff were not included in the original arc flash study. Additionally, Mr. Stevens reported that the final piece of equipment for the 12kV project is anticipated to ship around the middle of November. Once that is received, the Notice of Completion will be issued in December or January.

Collector Mainline Redundancy Project

Mr. Stevens said that CalOES has not responded to the District's grant deadline extension request.

TRF Generator Project (\$517,819 District match)

Another RFI was received from CalOES. Response to that request is included in the Board Packet. The request was simple in nature, requesting clarification on the future Geotech borings. Pictures were sent that caused some confusion regarding the timing of the 3-acre conversion and how that dovetails with the future generator project.

Matthews Dam Advance Assistance Seismic Stability Project

The Seismic Stability Project at Ruth received an RFI that inquired if any cultural resource investigations or record search was completed regarding the project area. Jamie Roscoe from the Historic Preservation Commission was contacted. The response, included in the Board Packet, states that the dam is not a designated historic property. Mr. Stevens is hopeful that an award letter will be received for this project.

Collector 2 Rehabilitation Project CEQA – Notice of Exemption

A Notice of Exemption will be filed with Humboldt County in order for the project to be listed as exempt from CEQA. The project qualifies under two different exemptions: A) It is a repair of an existing facility with negligible or no expansion of existing use, and under a different section of the CEQA exemptions; and, B) as a reconstruction of a facility located at the same site with the same purpose. These are the same CEQA exemptions utilized for the Collector 1 project. After opening and closing public comment, on motion by Director Rupp; Seconded by Director Lindberg the board approved the Notice of Categorical Exemption the for Collector 2 rehabilitation project. The Board voted 5-0 for approval.



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Status report re: other engineering work in progress

Mr. Stevens said there was nothing to report this month.

President Woo inquired about a status of a 2019 Storm Damage appeal to FEMA. Staff and Directors responded with a confirmation that although we were not denied, we haven't received a response regarding that request.

Financial

Audit Committee Report out and recommendation

Director Rupp reported that he, Director Lindberg, and Ms. Harris met with Auditor Michael O'Conner on 11/08/2022. Director Rupp reported the audit received an "unqualified audit" meaning that the books are sound and reflect the actual situation. The audit committee recommends the Board accept the audit report for the fiscal year 2020/21.

FY 2020-21 Audit

Michael O'Conner, CPA (auditor) explained the audit report to the Directors. Board Packet item 10.3b. Ms. Harris brought attention to the Other Post Employment Benefits (OPEB) and Net Pension Liability, both unfunded liabilities. Ms. Harris noted that the decrease in the OPEB unfunded liability is attributable to the requirement that retirees 65 and older have to utilize a Medicare supplemental insurance plan resulting in a substantial reduction in the unfunded liability this year. Director Rupp pointed out that the overall cash position is very strong and positive. Mr. O'Conner brought attention to the revenue exceeding expenditures. The staff recommendation is to accept the audit report for the fiscal year 2020/21. On motion from Director Rupp; Seconded by Director Fuller the Board voted 5-0 to accept the Audit Report.

October 2022 Financial Statement & Vendor Detail Report

Ms. Harris advised the Board that the current general account is \$4.2 million, with various investments at \$7.8 million. Funds allocated to specific projects (advanced charges) are currently \$5.7 million. General reserves are at \$2.4 million.

On a motion by Director Rupp, seconded by Director Latt, the Board voted 5-0 to accept the October 2022 Financial statement and Vendor detail in the amount of \$340,386.75.

Operations

Monthly report on Projects and Operations

Mr. Davidsen provided the October 2022 Operational Report. Ruth Hydro produced 151.600 KWh in October. Ruth Lake recorded 0.04" in rain for October. The lake discharge averaged 46 cfs with a high of 48 cfs on October 22nd. The river at Winzler Control Center, for October, had an average flow of 47cfs.

Mr. Davidsen and Mr. Palmero attended the AWWA Fall Conference in Sacramento October 24th to the 26th. Mr. Davidsen thanked the directors for supporting their attendance at the conference and relayed that it was very educational and informative.

K. MANAGEMENT

Current Reservoir Conditions: DWR

Mr. Friedenbach included the current reservoir conditions for reference. The document included in the Board Packet shows California reservoir levels during the week of October 24th.



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NCRPL Vision for North Coast Resilience

North Coast Resource Partnership is looking for input on the Vision for North Coast Resilience from November 1st through the 21st. GM Friedenbach pointed out the link and offered to review any inclusion the Board would like to make.

GM Friedenbach also provided an update regarding the NCRP Proposition 1 IRWM Round 2 Grant for Collector 2 Lateral rehabilitation. Staff submitted the application to the grant asking for \$900k, scalable to \$700k depending on available funds. He also informed the directors that the RFP for the project goes out for bid in the first part of December and Staff is anticipating multiple bids.

L. DIRECTOR REPORTS & DISCUSSION

"Highline Lake is officially 'infested' with invasive zebra mussels CPW confirms state's first known population"

Director Lindberg spoke briefly regarding the ease in which this invasive species has made it's way to Colorado. Colorado Parks and Wildlife recently discovered a single adult zebra mussel in Highline Lake which potentially put everything downstream of Grand Junction at risk.

M. ACWA

Director report out

Director Rupp advised the Board that he will be attending an ACWA meeting in Sacramento on November 17th and 18th which will be the final steps in laying the groundwork for the operation of the foundation.

Coalition Letter to California Resources Board to "Commercially Available"

GM Friedenbach called attention to a memo sent to CARB (California Air Resources Board) calling for the formal definition of the term "Commercially Available" in regards to fleet vehicle's configurations and requirements as a realistic plan.

Comment Letter to California Air Resources Board RE: Local Government Fleet

ACWA submitted a comment letter regarding the Draft Regulatory Language for the Advanced Clean Fleets Regulation State and Local Government Agency Fleet Requirements with deadlines that are approaching quickly. Concern was expressed regarding the available inventory, the cost of that inventory, and the current affordability for government entities with regards to the timeframes the current plan holds in place.

State Water Board Adopts Water Loss Regulation

GM Friedenbach brought attention to the State Water Board adopting regulations in which the standard indoor residential use projected at 47 GPCD by 2025 and 42 GPCD by 2030 is extremely low considering Arcata averages about 50 GPCD and they are the lowest consumers in Humboldt County. The Board questioned the current standard and penalty, and how to encourage the conservation mindset.

Letter to ACWA Public Water Agency Members – ACWA's 2023 Membership Dues* – discuss

Director Rupp and GM Friedenbach agreed that this subject has been discussed in previous Board Meetings. Director Rupp is hopeful that the process of budgeting and setting ACWA membership dues determination amount will improve in the future.



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N. ACWA – JPIA

Important Information about the 2022/23 ACWA JPIA Liability Program Renewal

Director Rupp reiterated that the Liability program will be increasing 10% as discussed with the Board previously.

CWIF Board of Directors Meeting

CWIF declared dividends of \$3 million dollars at the end of the fiscal year, which goes back into the JPIA to reduce the cost of insurance.

ORGANIZATIONS ON WHICH HBMWD SERVE

RCEA October News and Updates

President Woo advised the RCEA does a News and Update flyer every month and should be available on the website.

RCEA Board of Directors Draft Meeting Minutes 9/22/22

President Woo stated that biomass power was a big topic of discussion last month.

RREDC Special Meeting of Loan Committee Agenda 10/24/22

Director Latt spoke about the Executive Meeting with H.C.A.O.G's Executive Director, Beth Burks speaking about Regional Efforts Integrating Housing and Transportation. Ms. Burks spoke about the distribution of \$9 million that the County receives to transportation entities. They are creating a website that tracks the average current rent in the area, which is currently \$987 for 1 bedroom unit. The average hourly income is \$18.98/hour.

Director Latt also mentioned the Indianola undercrossing project starts next year.

ADJOURNMENT

The meeting adjourned at 3:22 pm.

Attest:

Sheri Woo, President

J. Bruce Rupp, Secretary/Treasurer

Consent

US Bureau of Reclamation

News & Multimedia

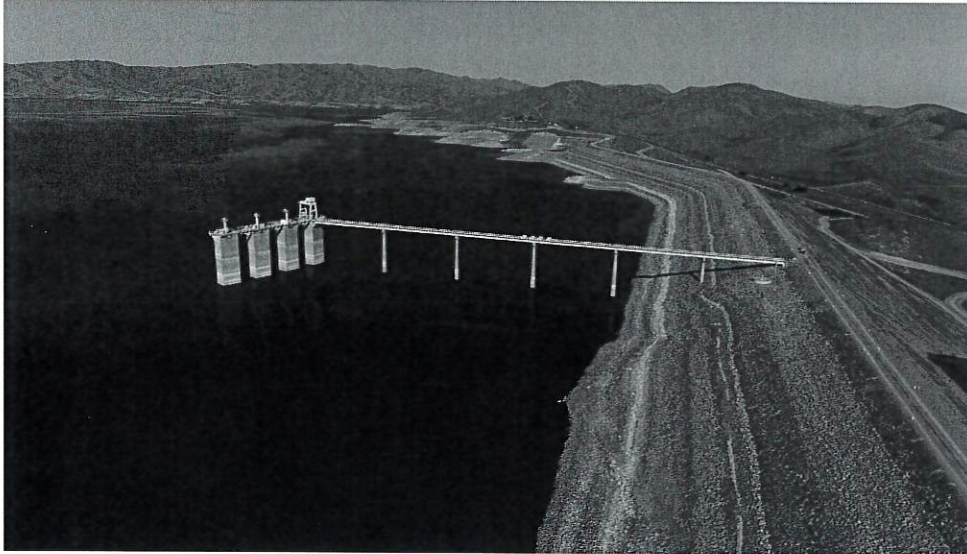
[Reclamation](#) > [News & Multimedia](#) > [News Stories](#) > [Fortifying B.F. Sisk Dam And San Luis Reservoir Against The Power Of An Earthquake](#)

Fortifying B.F. Sisk Dam and San Luis Reservoir against the power of an earthquake

Comprehensive plan aims to safeguard key components of the Central Valley Project and State Water Project

Media Contact: Gary Pitzer (916) 978-5112 gpitzer@usbr.gov

For Release: Nov 8, 2022



B.F. Sisk Dam and San Luis Reservoir

Earthquakes are a fact of life in California, and at the B.F. Sisk Dam and San Luis Reservoir work is underway to ensure the continued viability and durability of the key resources, even when Mother Nature decides to shake things up.

A major seismic upgrade, the largest project of that scale that has occurred at the site since its construction in 1967, received a \$100 million investment earlier this year from the Bipartisan Infrastructure Law. It is Reclamation's largest dam safety project under the 1978 Safety of Dams Act.

Situated amid the rolling slopes of the Diablo Range in Merced County, Sisk Dam and San Luis Reservoir are an important link in the storage and conveyance chain of the Central Valley Project and State Water Project. With a storage capacity of more than 2 million acre-feet, the reservoir is the largest off-stream storage facility in the United States, providing water for farms, wildlife refuges, and millions of Californians.



San Luis Reservoir is the largest off-stream storage facility in the United States.

An analysis of the risk and potential consequences of a large earthquake prompted Reclamation and the California Department of Water Resources to launch the project that will add stability berms and other physical features to the existing 3.5-mile earthen embankment. The project is expected to take several years to complete.

A recent visit to the dam and reservoir revealed a beehive of activity, with heavy machinery moving about as the work of stabilizing and upgrading the dam takes place.

The urgency and need of the project were demonstrated October 25 when an earthquake rumbled through a part of the Bay Area about 60 miles west of the dam (a detailed inspection of the facilities after the earthquake and found no areas of concern).

Crews are shoring up large portions at the bottom of the dam to bolster its ability to withstand a large seismic event. This is done by removing weak foundation materials known as “slope wash” to make the base of the dam stronger.

“Some of the foundation materials can become very weak when subjected to ground motions,” said Sean Frische, a civil engineer at Reclamation’s project field office. “We are taking those out at the downstream toe and replacing them with rock fill that is a lot heavier and will give it a more stable foundation.”



Heavy machinery excavates slope wash from the base of B.F. Sisk Dam

The first phase of the project involves excavating and filling three slope wash sections and some spillway work. The scale of the work is impressive, with crews digging out more than 400,000 cubic yards of slope wash from three sites. The current slope wash work is expected to be completed by mid-2024 with additional work continuing through 2025. Frische said the slope wash sections with the highest risk are the ones targeted to be completed first.

The project includes a dam raise of 10 feet for safety, the idea being that even with a full reservoir, the dam will not overtop in a seismic event. “We want to make sure that in a shaking event, if the material were to subside, we have enough freeboard, the difference between the top of the water to the top of the dam, that if it does fall, it still maintains a higher elevation.” Frische said.

Mad River Union - 11-9-2022

Water and sewer rates rise in McKinleyville

Jack Durham

MAD RIVER UNION

McKINLEYVILLE – Starting in January, water and sewer bills will increase in McKinleyville.

The rate hike was unanimously approved Nov. 2 by the McKinleyville Community Services District Board of Directors.

Rates will increase each year for the next five years. For a typical single-family home that uses 600 cubic feet of water per month, the combined sewer and water bill will increase by \$6.68 a month, from the current rate of \$93.63 to \$100.31 starting in January 2023.

That rate will be \$104.89 in 2024, \$110.41 in 2025, \$115.86 in 2026 and \$121.12 in 2026.

For that typical customer, the total increase over five years would be \$27.49.

RATES ❖ PAGE 7

Rates | Rising

❖ FROM PAGE 1

Actual customer bills are determined by water usage, meter size and other factors.

While it's not uncommon to hear people gripe about having to pay higher bills, only 20 MCSD customers submitted letters protesting the increase. The district would have needed to receive about 3,500 to stop the increase.

"I would say we didn't have a majority protest," said MCSD Chair David Couch at the Nov. 2 meeting.

The rate increase will help the district keep up with inflation. It will also pay for replacing and upgrading sewer and water pipes and other projects.

TIMES STANDARD

SECTION 7.1c PAGE NO. 1

Drought expected to persist but improve in Humboldt County this winter



A photo of Big Lagoon, where drought conditions likely helped foster harmful algal blooms this summer. (Humboldt County/Contributed)

By **SONIA WARAICH** | swaraich@times-standard.com | Eureka Times-Standard

PUBLISHED: November 10, 2022 at 9:23 a.m. | UPDATED: November 10, 2022 at 1:55 p.m.

A historic drought impacting the West Coast is expected to persist through the winter, but Humboldt County is expected to see some improvement.

On Tuesday, the Humboldt County Board of Supervisors heard a report that another La Niña is expected this winter, which means the weather should be colder and wetter in the Pacific Northwest and warmer and drier in the southern part of the state. Humboldt County should expect above-average temperatures and equal chances of above- or below-average precipitation over the next three months, according to projections from the National Oceanic and Atmospheric Administration.

Fifth District Supervisor Steve Madrone pointed out that the timing and intensity of rainfall is also important in terms of the ability of the rain to penetrate the soil and recharge groundwater aquifers, as well as the ability to avoid rationing water. Madrone said there are state grant programs for distributed water storage, like rainwater catchment systems, to adjust to changing weather patterns.

“Often when we think of water storage, we think of municipal storage, but that puts a big burden on those municipalities,” Madrone said. “Whereas if we had grant programs to help landowners even in urban areas put in a 5,000-gallon tank, which is really a 10-by-10-foot space, collecting rainwater from the roof, that can be a huge piece of our drought protection, fire resiliency.”

Madrone added that the county should look into water-less toilets and continue pushing to get property tax improvement waivers for water storage like ponds, which provide more water storage per dollar spent than tanks.

"Tanks are really vulnerable in a fire whereas ponds are not," he said. " ... But right now they're taxed as a property improvement."

Planning and Building Director John Ford said the staff will be bringing a proposal to the board, as early as Nov. 29, for a comprehensive two-year groundwater study looking at wells.

Harmful algal blooms

Mario Kalson, director of the county Division of Environmental Health, touched on harmful algal blooms, which coincide with the summer months when there are low flows and sustained high temperatures that foster the conditions for the growth of cyanobacteria. Cyanobacteria are photosynthetic bacteria and some of the species producing toxins that can make people and animals ill if ingested.

"As the weather and water cool down in late fall and winter months, the blooms are less likely to occur," Kalson said. "It's anticipated that harmful algal blooms will increase in intensity, frequency and duration with climate change and especially in drought years."

Elevated concentrations of micronutrients in surface waters further promote the growth of cyanobacteria and landowners near waterways can help reduce the likelihood they'll develop by properly maintaining their septic systems and limiting the use of fertilizers, Kalson said.

This summer, three consecutive sampling events at multiple locations in Big Lagoon showed concentrations of the toxin microcystin that were near or above danger levels. The Division of Environmental Health issued an advisory to notify families with children and pets, two groups who are particularly vulnerable to the toxin, spending time at the beach.

Madrone said he appreciated the intent to keep the community safe, but took issue with the advisory warning against using watercraft in Big Lagoon because of harmful algal blooms.

"In fact, I will swim in rivers where there's warnings, but I know enough to not go into the eddies where all this stuff is accumulating in the corners," Madrone said. " ... If we just start shutting it down and aren't educating people really clearly on what the hazard is, it can affect businesses, as you know, especially a kayaking business."

Kalson said he reached out to the Department of Water Resources and was assured there was a risk related to kayaking. He pointed out dogs have died after swimming in Big Lagoon.

California WaterBlog

Are native fishes and reservoirs compatible?

Posted on November 13, 2022 by Andrew Rypel

By *Peter B. Moyle and Anna M. Sturrock*



Oroville Reservoir during severe drought. The 'bathtub ring' of steep barren ground makes poor habitat for native fishes even when the reservoir is full. Photo credit: Californiaglobe.com

The question addressed in this blog comes from a new PPIC report that calls for reforms in management of environmental water stored behind dams in California. The report shows it is possible to manage water in ways that are compatible with maintaining a natural ecosystem in streams below and above dams (Null et al. 2022). An appendix to this report focuses on fishes (Moyle et al. 2022). It provides information on how dams and reservoirs affect native fish populations and supports the need for improved water management to avoid future extinctions.

California has a unique assemblage of fishes native to its rivers and streams. Most of the 129 or so species are found no place else. They are a fascinating mixture of endemic freshwater fishes that cannot live in salt water, and endemic sea-run (anadromous) fishes that migrate long distances through both fresh and salt water environments. There are exceptions, of course, such as delta smelt and splittail, which live in the mixing zone between salt and fresh water. All of these fishes are adapted to a climate that generates extreme floods and droughts, and everything in between, on an irregular basis. This naturally variable climate is also changing, becoming more volatile and making extreme conditions worse and more frequent. Unfortunately for the fish, we humans do not like these extremes nor the unpredictability in water availability; we therefore have built massive infrastructure, centered around dams, to generate a more stable water supply.

In particular, we built dams to store water in reservoirs to get us through extreme droughts and floods and then cement canals to keep a constant flow of water to our farms and cities. There are over 1400 reservoirs in California alone, some of them among the largest in North America. Most rivers in the state support at least one dam-reservoir combination. You would think all this impounded water would provide good habitat for native freshwater fishes. Indeed, some reservoirs in their early years did support high numbers of native fishes such as hardhead, pikeminnow, and hitch. When some of the larger reservoirs filled in the 1950s and 60s, native fishes were so abundant that fisheries agencies talked about solving the 'hardhead problem'. These native fishes were regarded as trash fish (Rypel et al. 2021) throughout western USA because anglers did not like them and assumed they suppressed populations of game fishes through competition and predation. One solution was the use of fish poisons to kill all the fish in a river before a dam was built. The most egregious example of this was poisoning of the Green River in Utah before the closure of Flaming Gorge Dam. This operation killed millions of fish, native and non-native, including many species (e.g., Colorado pikeminnow, razorback sucker) that are now listed as endangered, even in California. In California, poisoning operations (euphemistically called 'chemical control operations') aimed at native fishes in reservoirs were a routine management practice up into the 1980s.



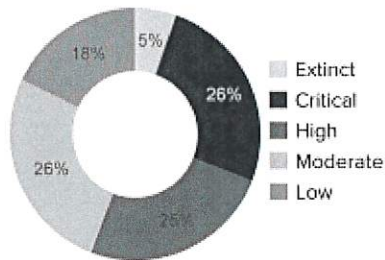
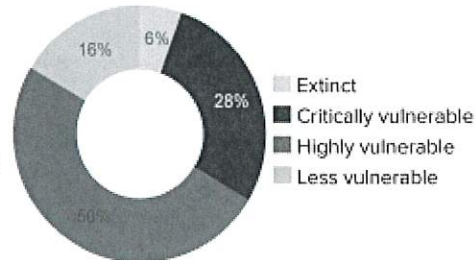
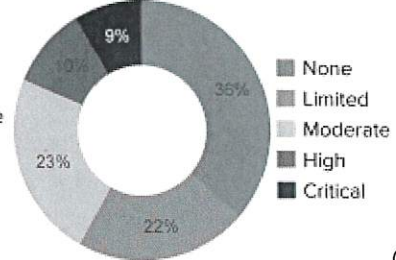
Hardhead, a native California fish that was once abundant in reservoirs but now is uncommon in most of its native range. Photo credit: Ken-ichi Ueda, downloaded from Creative Commons.

The hardhead problem eventually went away on its own after introduced predators, such as largemouth bass, smallmouth bass, striped bass, and channel catfish, became established and devoured and/or out-competed all the native fishes. The non-natives could even thrive in storage reservoirs that were systematically drawn down during summer months, leaving a 'bath-tub ring' of exposed dirt along reservoir edges. The raw dirt provides no cover or food for juvenile native fishes that wash in from upstream areas. Most of the non-natives could also complete their entire life cycle in reservoirs, because many of these species are endemic to natural lakes and other warmwater habitats before introduction in California. Only a few native species, such as prickly sculpin, Sacramento sucker, and rainbow trout appear to have adapted to reservoir life and remained abundant in them.

For many native species (24 out of 129), dams and reservoirs have played a predominant role in placing them on an extinction trajectory (Moyle et al. 2022; 'Dam Impacts' rated 'high' or 'critical' in figure below). But, not surprisingly, dams tend to be one of multiple, interacting factors causing their declines, including non-native species and climate change. Over half of California's native fishes have been rated as headed for extinction, with seven already extinct.

The dominant fishes in most reservoirs today are non-native species, with each reservoir supporting some combination of the 50 non-native species thriving in the state. By and large, reservoir fishes are popular among Californian anglers because they support recreational fisheries for black basses, sunfishes, catfishes, and other familiar fishes in their warm surface waters and rocky bottoms. Such fish are the basis of important sport fisheries elsewhere, especially in the southeastern USA, where game fishes are held in high esteem and managed intensively by fisheries agencies. In California, the reservoir fisheries are pretty much taken for granted, with little concern for harmful effects on native fishes.

But harm to natives by dams is not confined only to reservoirs with non-native fishes. Dams block access to major upstream spawning and rearing areas of salmon, steelhead, and other native fishes. In California, 70% of critical upstream habitat for salmon and steelhead has been blocked. Below the dams, their habitats are often drastically changed by the absence of high flow events that shift and reshape the riverbeds. Such flows create the complex off-channel habitats needed for juvenile rearing and to maintain a diverse fish fauna. The so-called tailwaters below a dam may be cold enough to support salmon and trout, but the embedded substrate limits invertebrate production for food and makes digging nests (redds) for spawning difficult to impossible. As water warms up with distance from the dam, and as flows are further reduced by diversions, non-native species such as carp, catfishes, and basses become dominant in the warm pools of remnant, diked river channels. The habitat, flow and thermal regimes below dams typically bear little resemblance to the historic regimes that supported native fishes and cued important physiological and ecological events. The key ingredient for native fish habitat (cool, high-quality water), is greatly reduced or absent. This water is increasingly stored in reservoirs and not available to native fishes at the right times.

Conservation Status**Climate Vulnerability****Dam Impacts***Overall*

conservation status, vulnerability to climate change, and impacts of dams and reservoirs on native fishes ($n = 129$). See Moyle et al. (2022) for a summary how these ratings of fish species were created and the sources of information. The key findings are that 51% of the fishes are in severe decline overall, that 78% are highly vulnerable to decline due to climate change, and that dam and reservoir management is endangering 42% of the remaining extant species.

Dams and reservoirs have played a large role in the decline of our native fishes. However, there is a growing need to protect native fishes before even more face extinction and become listed under the Endangered Species Act. It is clearly time to improve management of stored water for native fishes. In our rapidly changing climate, using reservoirs to store designated environmental water could allow such water to be deployed flexibly during droughts and to play a pivotal role in saving endangered fishes from extinction. Nevertheless, major policy changes that revolutionize our ability to store and manage water to benefit native fishes are not likely in the near future. The water is simply too important to California's economy. However, the restoration of native fishes to lower Putah Creek, a highly managed stream (Yolo and Solano Counties) does provide an example of success with relatively low water costs. Null et al. (2022) provide a framework for creating such successes statewide. The key is making restoration of native fishes a designated function of reservoirs instead of being an afterthought. "Making ecosystem health a primary objective of reservoir operations would enable better overall management of hydrologic uncertainty and ecological risks (p3)." Without such a change, California fishes will likely become just another statistic in the world extinction crisis. It would be better if, instead, California emerged as leader in coping with environmental change through better management of its water. The state's unique native fish fauna needs all the help it can get!

Peter Moyle is Associate Director of the Center for Watershed Sciences and Distinguished Professor Emeritus at the University of California, Davis, USA. Anna Sturrock is Lecturer in Marine Ecology and UKRI Future Leaders Fellow, University of Essex, Colchester UK.

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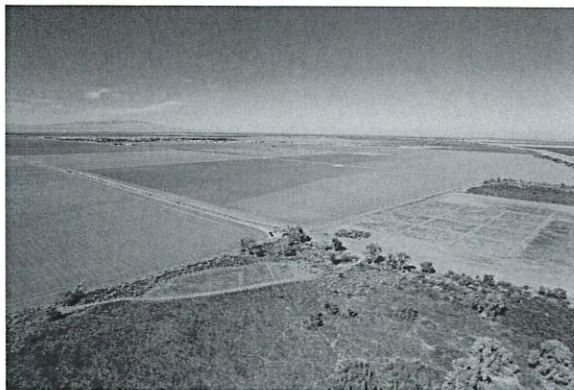
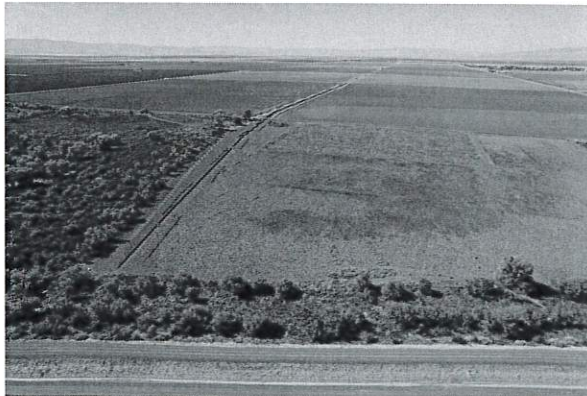
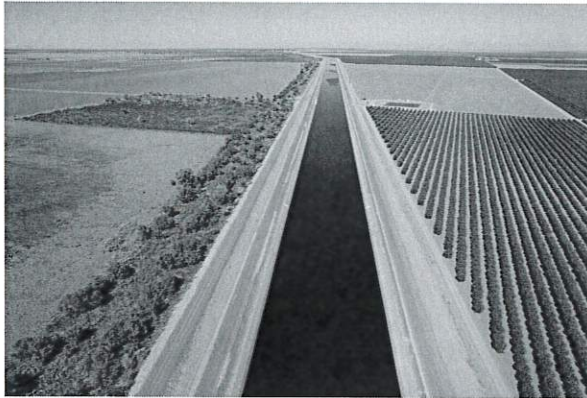
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REUTERS

November 15, 2022

California tries to harness megastorm floods to ease crippling droughts

By Sharon Bernstein



[1/3] The dried out Arroyo Pasajero Creek is seen alongside an aqueduct in Huron, California, U.S. on October 25, 2022. REUTERS/Nathan Frandino

HURON, Calif., Nov 15 (Reuters) - The land along the Arroyo Pasajero Creek, halfway between Sacramento and Los Angeles, is too dry to farm some years and dangerously flooded in others.

Amid the cycles of wet and dry — both phenomena exacerbated by climate change — a coalition of local farmers and the nearby city of Huron are trying to turn former hemp and tomato fields into massive receptacles that can hold water as it percolates into the ground during wet years.

This project and others like it across California's Central Valley breadbasket aim to capture floodwaters that would otherwise rush out to the sea, or damage towns, cities and crops.

Traditional water storage in the form of damming rivers to create reservoirs damages the environment.

With parts of California suffering a historic drought, water was so scarce in the Central Valley this year that Huron was allocated only a quarter of the water it was contracted to receive from the U.S. Bureau of Reclamation.

The city, one of California's poorest, had to buy water on the open market, raising residents' bills, said engineering consultant Alfonso Manrique.

The new project, known as a recharge system, turns unused fields into large ponds to hold water so that it can percolate into the porous rock and earth below, creating or restoring an aquifer rather than rushing to the sea. The city is building a new well to be fed from the aquifer, Manrique said.

Capturing runoff will also help protect the city of less than 7,000 people from catastrophic floods.

The project near Huron is one of about 340 recharge systems that have been proposed by water agencies in California - enough to store 2.2 million acre-feet by 2030 if they all are built, the state Department of Water Resources said. That's enough for 4.4 million households for a year.

"I'm hoping we can make water more affordable for our residents," said Huron Mayor Rey Leon.

Outside the United States, countries including India are also beginning to increase the use of recharge ponds to store water in natural or human-made aquifers. Water use and resilience is among the topics being discussed by world leaders at the United Nations COP27 climate summit in Egypt this month.

While the idea of storing water underground is not new, a recent California law regulating groundwater use has spurred a spate of projects that the state is helping to fund.

In the small community of Okieville about 40 miles (65 km) east of Huron, the Tulare Irrigation District is building a new recharge pond on land purchased from a local farmer, said Aaron Fukuda, who is the district's general manager.

A number of Okieville residents ran out of potable water during the state's last big drought, which lasted from 2012 through 2016. The new pond, on about 20 acres of former farmland, will help to guide water underground to store it for residents as well as agriculture.

The project costs about \$2 million, including about \$1.8 million in state grants.

In addition to the comparatively small projects being built by rural water districts and farmers, the massive Metropolitan Water District, a regional water wholesaler that serves Southern and parts of Central California, is building a 1,500-acre recharge pond in the high desert near Palmdale, in partnership with local water authorities.

ENVIRONMENTAL DAMAGE

California's complex networks of reservoirs, rivers and aqueducts were viewed as engineering marvels when the state and federal government built them in the mid-20th century.

But the system relied on damming and diverting rivers, and flooding canyons, damaging their ecosystems. The last big dam was built in 1980. Since then the state's population has nearly doubled to 40 million residents.

California's agricultural economy, one of the largest in the world, relies largely on irrigation to water its crops, further taxing the system.

Now, new reservoirs are hard to approve and expensive to build. The underground storage projects, according to Ann Hayden, water expert at the Environmental Defense Fund, "are going to be easier to finance, they're going to be easier to permit and they're going to get more public support."

ROOM UNDERGROUND

These human-made aquifers and underground water banks will not solve all of California's water problems, but they can make a significant dent, said Sarah Woolf, a water consultant whose family owns some of the farmland being used for the Huron project.

There's room below the agricultural land that will be served by the Huron project to store 1 million acre-feet of water, or about 326 billion gallons - enough to serve 2 million households for a year.

"These are needed all over the place," Woolf said.

SCIENCE STORY

FULL READ

California Reeling: When Mudslides Follow Wildfires

by [Robin Meadows](#) | Nov 16, 2022

It's been nearly five years since a torrent of mud, boulders and debris slammed into Montecito, California, a Santa Barbara County town of 8,600 nestled between the Santa Ynez Mountains and the Pacific Ocean. It was the middle of the night. Twenty-three people died and at least 167 were injured. Hundreds were rescued, some lifted to safety by helicopter from the roofs of their homes. The slide destroyed more than 100 houses and damaged another 300.

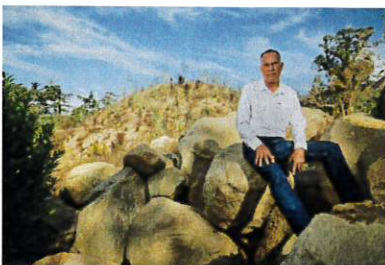
"I heard this noise I never will forget," says Montecito resident Curtis Skene, who woke in the early hours of January 9, 2018 to a deafening rumble and the sound of trees snapping. "CRACK! CRACK! CRACK! CRACK! It was like firecrackers but every crack was a tree breaking."

Moments later the side of his house ripped open and mud poured in. Skene raced outside, barefoot in his pajamas in the cold of winter, and scrambled up an olive tree on the other side of his house.

The rest of the night was just as surreal. The earth shook. The bright orange glow of a burning gas main lit the sky. A car floated past in slow motion. Sixty-foot palm trees went by as if they were toothpicks. "I was freezing my tail off for five hours, listening to my neighbor scream for help but I couldn't get to him," Skene says. "We lost four lives within 100 yards of my house."

The mix of mud and everything it picked up while barreling toward Skene's neighborhood is called a debris flow. While many debris flows are small, the term doesn't begin to convey what Skene experienced.

"Envision an avalanche launching off the mountains and destroying everything in its path," he says.



Montecito resident Curtis Skene. Photo: Jak Wonderly.

One of the most powerful and dangerous types of landslides, debris flows can travel tens of miles per hour and transport boulders as large as tow trucks. They're triggered by bursts of rain, and mountains with recent severe burns are particularly at risk partly because the soil becomes water-repellent. Instead of soaking into the ground, rainfall beads up and shoots across the surface, picking up soil.

Southern California is already a global hotspot for debris flows on wildfire-ravaged slopes. Climate change, which intensifies fire and rain, is making them even worse. And while Northern California had historically been spared from mudslides on burn scars, now these devastating events may be on the rise there too.

The 2018 debris flow was the second that Skene lived through in this house, which was also his boyhood home. The first also followed a wildfire and struck on January 25, 1969, when he was 15 years old. His family's house was fine that time. With the help of friends, Skene and his father had sandbagged the exterior to a height of four feet, and the mud crested at three feet. "My father and I ran to a plate glass window and saw the mud rising," Skene says. "He grabbed me but then it started to subside." Afterward he heard a county official assuring residents that this would never happen again.

So the 2018 debris flow, which carried boulders up to 20 feet across and buried the six lanes of Highway 101 in up to 12 feet of mud, came as a shock. Skene's first thought was extreme gratitude to be alive. His second was, "What the hell am I doing in my house again — I'd seen this as a kid!" His next thought was there must be something he could do.

At a community meeting on the disaster, he met Tom Fayram, then Santa Barbara County's head of flood control, and the two teamed up to protect Skene's neighborhood from future debris flows.

In parallel, scientists dove into the why and how of the deadly Montecito debris flow, using it as a case study to identify the climate extremes that drove it and to tighten predictions of when, where and how hard these catastrophic events will strike. What they've learned since then will help weather forecasters and emergency services providers protect lives and property as post-fire debris flows intensify in a warming world.

Extremes Run Amuck

The cascade of climate extremes behind Montecito's debris flow began with the 2012-2016 drought, one of the hottest and driest in California's recorded history. "There was a huge die-off of vegetation," says Alexander Gershunov, a climate scientist at Scripps Institution of Oceanography. The severe drought killed a lot of trees, and dry wood catches fire easily and burns hot and fast.

Then the drought ended, and the state swung between extremes in a single year. The winter of 2016-2017 was one of the wettest on record and the summer of 2017 was then the hottest on record. So first the grasses grew like anything and then they all dried up. On top of that, while California's wet season typically begins in the fall, it didn't rain for the rest of the year.



Thomas Fire in 2017. Photo: Wikimedia Commons.

Instead, the landscape became even more parched. "There was an extreme heat spike in October — it was hotter than summer," says Gershunov, who has lived in Southern California since childhood. The autumn heat

overlapped with strong, dry winds called Santa Anas that blast down Southern California's coastal mountains starting in the fall and peaking in December. In Northern California these are called Diablo winds.

All it took to ignite the desiccated vegetation was a few sparks from power lines in the mountains above Santa Paula, a town 40 miles from Montecito, on December 4, 2017. "When those sparks occurred, it was like a tinderbox," Gershunov says. "It was super flammable."

Back-to-back Santa Anas, typical late in the year, fanned the flames. The blaze, called the Thomas Fire, started near the top of a canyon and the first Santa Ana blew fire down it and toward Montecito. "The wind was roaring and the canyon funneled the wind," says Gershunov, who helped investigate the fire.

The next Santa Ana, gusting up to 60 miles per hour, spread the fire even further. The Thomas Fire grew to 281,893 acres and burned for 38 days, making it the largest wildfire in California's history at the time. Today it is only the eighth largest. The Thomas Fire still smoldered in the mountains above Montecito when the first rains came on January 9, 2018 and set off the debris flow.

Climate change heightens the risk that the extreme conditions behind wildfires and post-fire debris flows will converge again. Summers are hotter and the dry season lasts longer, pushing fire season into the height of wind season. The Santa Anas that send fires raging down canyons towards communities are also getting worse. Infamous for setting people on edge — novelist Raymond Chandler said they "make your nerves jump and your skin itch" — these relentless arid winds also bring increasing dread of infernos.

Santa Anas can be cold or hot depending partly on the weather in the Great Basin between the Sierra Nevada and Utah's Rocky Mountains, where they originate. Only the hot ones spread big wildfires. "In coastal California, some of the hottest conditions are produced by Santa Ana winds," Gershunov says. "It can be 80 to 90°F in December." A 2021 study he led shows that cold Santa Anas are waning while hot ones are becoming hotter and more frequent.

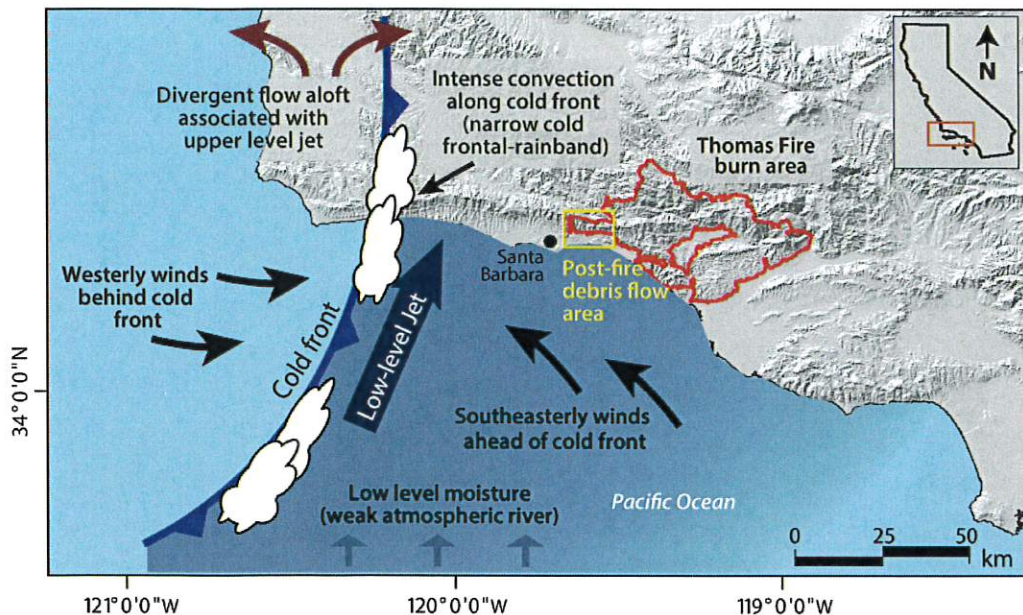
"Everything came together during the Thomas Fire," Gershunov says. "It's a harbinger of future coastal wildfires."

Bursts of Rain

Climate change is also making atmospheric rivers — the storms that deliver much of California's precipitation — wetter. An atmospheric river is a jet of extraordinarily wet air that shoots across the ocean and drops its moisture on land. And it doesn't even take a huge storm to cause a major debris flow on a burn scar.

"That's a big misconception," says climate scientist Nina Oakley, a colleague of Gershunov's at Scripps Institution of Oceanography.

The Montecito flow was triggered by a brief but intense rainband in a weak atmospheric river, according to a 2018 study she led. A rainband is a narrow strip of heavy rain, and this one formed along the storm's cold front. Then strong winds forced it up the mountain slopes behind the town. In just 15 minutes, more than one inch of rain fell on the Thomas Fire burn scar right above Montecito.



In the middle of the night on January 9, 2018, winds blew a narrow strip of intense rain or rainband (white clouds) along a cold front (blue line) toward Montecito. When the rainband reached the mountains above town, it dumped a quick burst of heavy rain on the Thomas Fire burn scar (red line), triggering a debris flow.
 Source: European Geosciences Union.

“It’s all about short-duration, high-intensity rainfall,” Oakley says. “It can rain for days without a debris flow, and then a little thunderstorm brings extreme rain and triggers one.”

Oakley, who grew up in Santa Barbara County, was dismayed when a high school friend said the flow was caused by a freak rain storm. Not so. The area already experiences heavier bursts of rain, she says, adding that “with climate change, everything points to rainfall intensification.”

Intense rainbands near cold fronts occur all along the California coast, and a 2022 study Oakley co-authored found that about three make landfall per year in Southern California. These rainbands are only a couple of miles wide, making it challenging to predict where they will be at any given moment. As a first step toward forecasting them in real time, Oakley and colleagues have launched a database that details associated weather conditions to help get a handle on how they form and develop.

Montecito’s Stop Gap

Skene’s neighborhood, which is on San Ysidro Creek, was one of the hardest hit by the burst of rain on the Thomas Fire burn scar that propelled colossal flows of mud and debris down several canyon creek beds in Montecito. After the community meeting on the calamity, Skene visited flood control expert Fayram in his office. There Skene learned about debris basins. These enormous engineered holes in the ground are often deployed by Southern California counties to help capture the flow of mud and boulders that rushes down canyons during storms.

Skene then scouted locations for a basin to protect his neighborhood and found the perfect site on Randall Road near the mouth of San Ysidro Canyon. But the county balked at the \$4 million price tag for the property. Installing a debris basin, at an additional \$15 million, was even farther out of reach.

In hopes of making the debris basin a reality, Skene co-founded a non-profit called Partners in Community Renewal with architect Kris Kerkelie, who he calls his sweetheart. Skene, a venture capitalist who’s spent much

of his life at the intersection between dollars and dreams, knew how to make his dream come true. “I used my entrepreneurial skills to persuade the county to buy the lot on Randall Road and leveraged that to apply for a FEMA [Federal Emergency Management Agency] grant for the debris basin,” he says. Fayram was with him the whole way.



Skene stands on the mound of debris he plans to use to raise his house, when he rebuilds. Photo: Jak Wonderly

It took Skene and Fayram several years and several in-person meetings to get it done, and it started with his state senator. The turning point came when Skene presented the financial case for the Randall Road debris basin to her chief of staff. “The economic impact of the debris flow was enormous,” Skene says. “It wasn’t just a small neighborhood that was affected — Highway 101 was closed for two weeks.” Many businesses went bankrupt because no one could get to them, and many people lost jobs and or half a month’s wages.

The cost of debris removal and damages to homes and infrastructure exceeded \$1 billion dollars by early 2020 and was likely to top \$1.5 billion once all the insurance claims had been filed, estimated a 2021 study led by Jeremy Lancaster, the California Geological Survey lead on debris flow hazard mapping.

The economic argument leapfrogged the debris basin on Randall Road from 53 to 5 on FEMA’s project list. So in 2019 Skene and Fayram flew up to Oakland to meet with FEMA officials. “We pitched them the debris basin and they gave us full funding,” Skene says, still sounding amazed. After the basin was completed in the summer of 2022, FEMA officials told him that they saw it as a model project because it was initiated locally and exemplifies the agency’s shift from cleanup to mitigation and adaptation.

Scrutinizing the Science

Scientists knew the risk of a debris flow in Montecito was high. But they were surprised that it was so big. About 890,000 cubic yards of sediment from mud to sandstone boulders came crashing down the mountains, enough to fill the Rose Bowl stadium in Pasadena twice over, making it one of the largest known flows in the state. “No one expected a debris flow that size,” says UC Santa Barbara geologist Paul Alessio, a co-author of The Geological Society of America’s 2020 field guide to the Montecito debris flow. “Looking at field data later clued us in to why.”

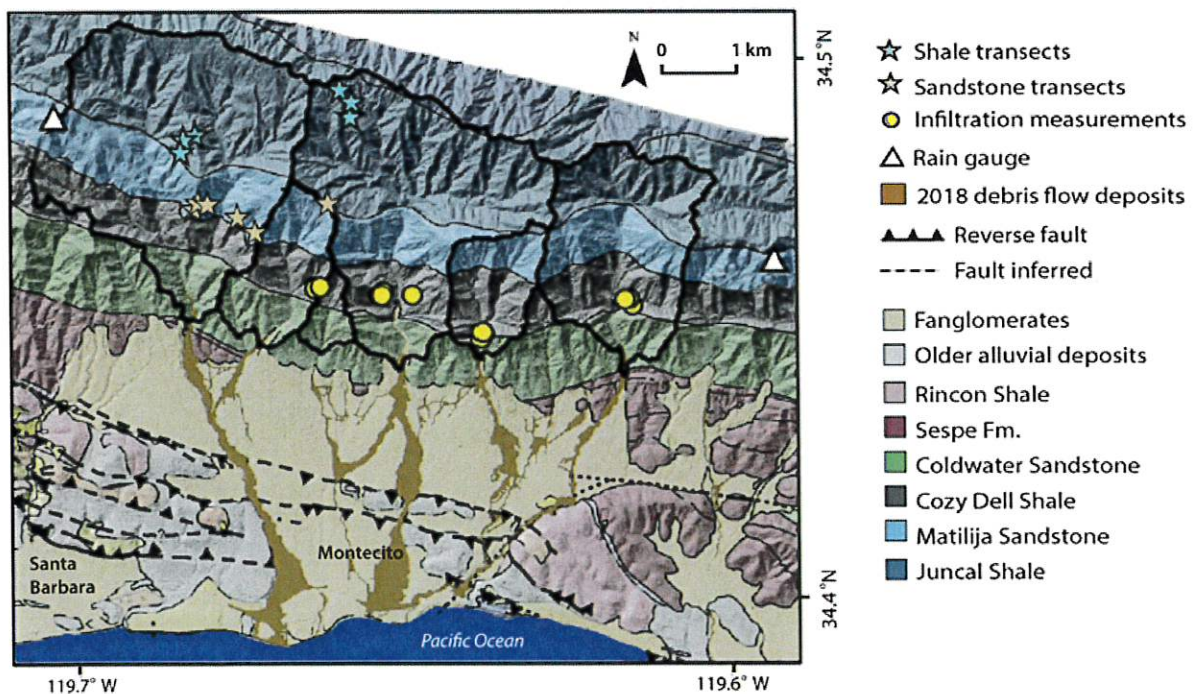
The Santa Ynez Mountains tower over Montecito, rising sharply to nearly 4,000 feet. Jagged and almost unbelievably steep, the range is studded with nearly vertical sandstone outcrops. This creamy golden rock looks like it’s just waiting to tumble down. Indeed, some geologists describe these mountains as wanting to become the beach, which is mere miles from their base.



Photo: Jak Wonderly.

Looking down, Montecito seems very far away. But barely 20 minutes elapsed between the burst of rain up here and the debris flow's arrival down there. "It took 10 minutes to make the mud and 10 minutes to get it downhill," says Alessio, who investigated what happened in that brief interval. Understanding how debris flows form is critical to improving predictions of these disastrous events because once one starts, it's already too late to alert people in its path.

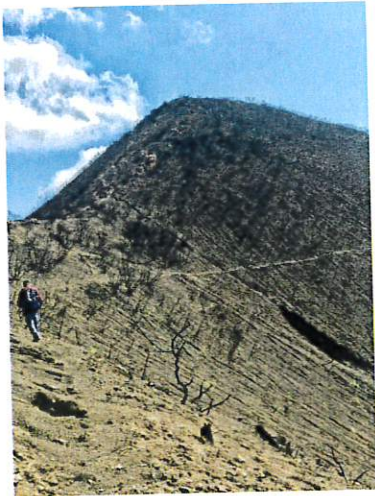
A series of small creek catchments — irregular bowls rimmed by precipitous ridges — sit atop of the mountains right above Montecito. The bowl that drains into the creek that runs through Skene's neighborhood is one of the largest but still doesn't quite reach 3 square miles.



The six creek catchments (outlined in black) at the top of the mountains above Montecito are full of shale (blue-grey). On the night of the 2018 debris flow, a burst of rain scored the shale with tiny channels called rills that delivered huge amounts of mud to the creek channels, resulting in a debris flow (tan) that reached the ocean. Source: AGU.

Today the bowls are thick with chaparral and scrub. But in early 2018 the Thomas Fire had just burned all the plants away, baring the soil.

Underneath the soil lies bedrock, including a crumbly, deep purple shale that readily falls apart into tiny pieces. When Alessio went to the top of the mountains shortly after the debris flow, he saw that the fragile shale in the bowls was incised with small, closely packed channels called rills. "They were made by rain flowing down the slope," he says. "There were thousands and thousands of rills in a bowl of sediment, turning it into mud." Networks of rills formed rapidly, within the first few minutes of intense rain, and efficiently sent a huge volume of mud down canyons, found a 2021 study Alessio led.

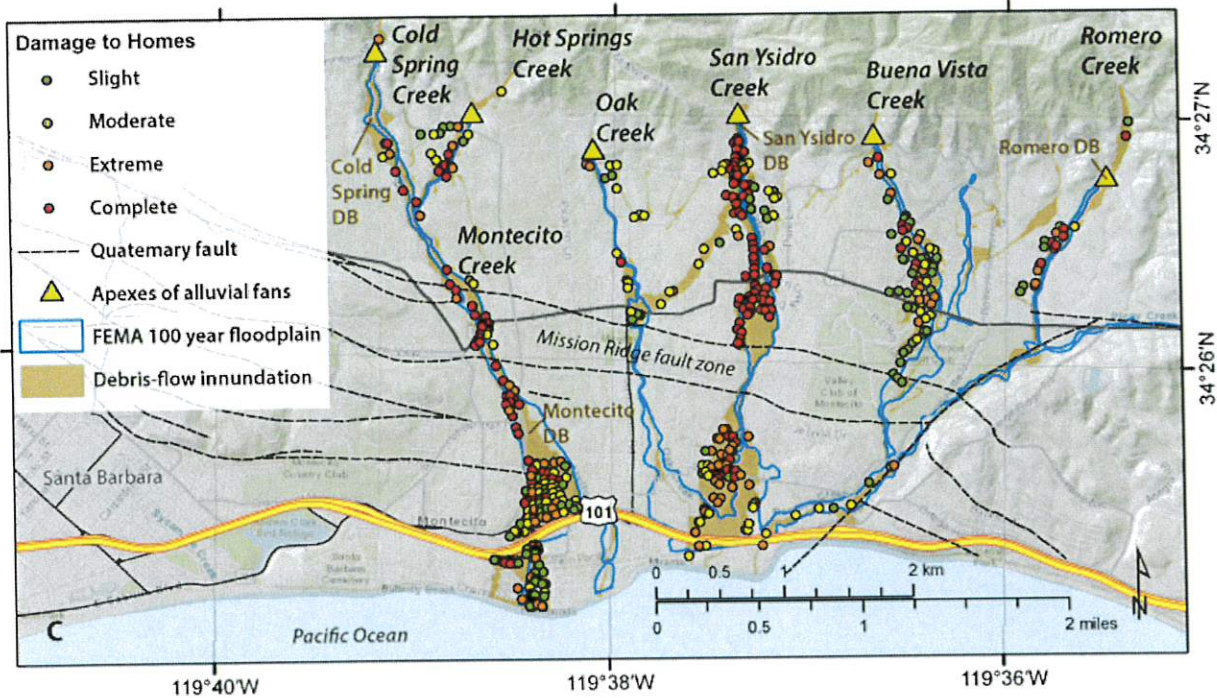


Rills in creek catchment. Photo: Paul Alessio

Once the mud entered the creek channels, it swept up boulders that had been deposited by previous, smaller debris flows. Three-dimensional, laser-generated images of the creeks before and after the flow revealed that it transported about 720,000 cubic yards of boulders, found a 2021 study Alessio co-authored.

"It was the perfect set-up for a debris flow," Alessio says, stressing the need to document the sediment loaded in creeks above Montecito and other at-risk communities.

Another unknown was which parts of Montecito were most at risk. "One of the things missing was an accurate depiction of where flows would go," says Jason Kean, the US Geological Survey lead on post-fire debris flow hazards. There wasn't time after the fire and before the first rain to model that. Instead, floodplain maps were used as a proxy for identifying high-risk areas. But while bridge culverts and underpasses handily channel floodwater, they can't cope with sediment. Debris quickly plugged this infrastructure, shunting the fast-moving flows into neighborhoods outside flood zones.



More than 400 houses were damaged (green and yellow circles) or destroyed (orange and red circles) along the paths of the 2018 Montecito debris flow (tan). Much of the damage was outside the FEMA 100-year floodplain zones (blue lines) that had been used to assess risk before the debris flow. Source: [GeoScienceWorld](#).

Kean led a team that mapped the flow paths and took field measurements of factors including sediment depth and boulder size. The data in their 2019 study will help scientists assess future debris flow risks, from triggering conditions on mountain peaks to downstream hazard zones, and develop models that predict where they will spread in the built environment.

Is Northern California at Risk?

While Southern California has a long history of frequent post-fire debris flows, Northern California (apart from some Central Coast slides), is essentially uncharted territory for these events. "I grew up in Southern California and we had fire season and debris flow season, but you rarely heard about fires in other parts of the state," says Patrick Barnard, a USGS coastal geologist. "Now fires and post-fire debris flows are happening elsewhere in the state every year."

2021 was particularly bad, with massive flows along the Central Coast and in the Sierra Nevada. In January, an atmospheric river set one off on the River Fire burn scar above Salinas, damaging dozens of homes and trapping people inside. The same storm caused even bigger flows on the Dolan Fire burn scar in Big Sur, including one that tore out 150 feet of Highway 1, leaving it impassable for months.

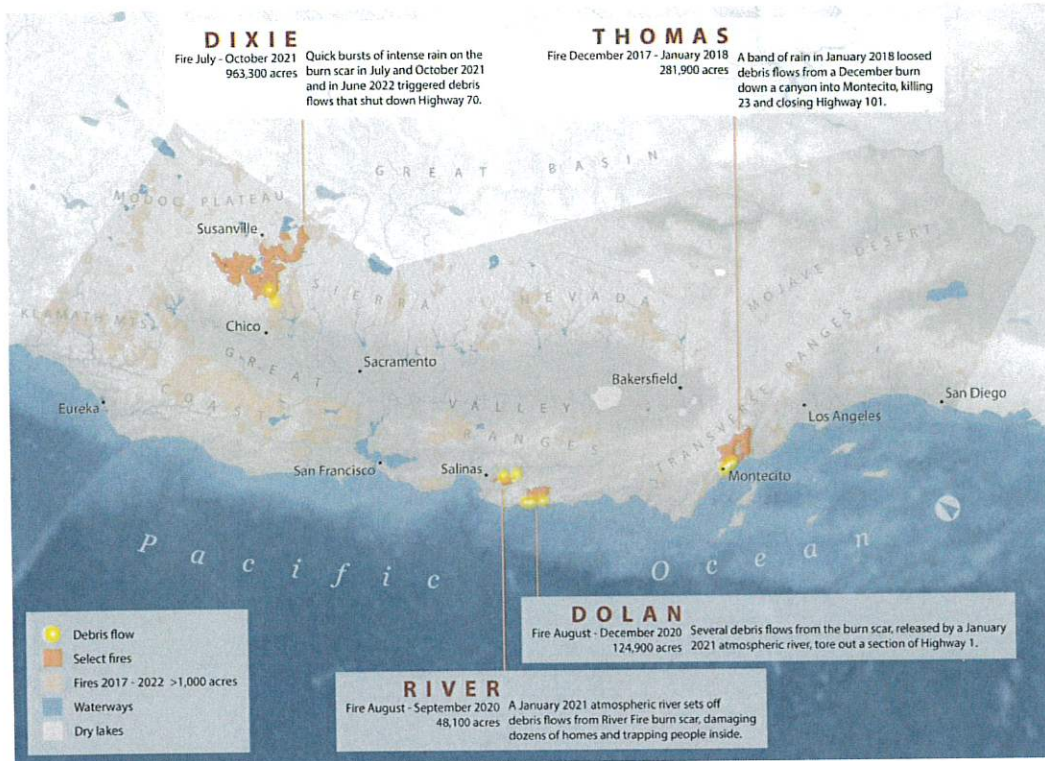


Big Sur debris flow on the Pacific Coast in 2021. Photo: USGS.

In July, a debris flow from the Dixie Fire burn scar shut down 46 miles of Highway 70 in the Sierra Nevada. As in Montecito, it was triggered by a quick burst of intense rain, in this case from a thunderstorm.

So far, though, coastal Northern California has been relatively unscathed by debris flows after wildfires, with only small ones in the Santa Cruz Mountains. "The question is, can we have an event as impactful as Montecito in the North Coast Ranges?" says Oakley, who lives in Sonoma County.

"We don't know," says the California Geological Survey's Lancaster. But Northern California's risk could rise as climate change worsens both wildfires and rainstorms. "There's been a significant increase in the size and severity of fires in Northern California, exposing new landscapes to the possibility of post-fire debris flows," says Kean.



Fires from January 2017 to October 2022 larger than 1,000 acres shown. Highlighted fire areas had significant debris flows when major precipitation events happened shortly after fires. Map: Amber Manfree.

Matthew Thomas, a USGS hydrologist who works with Kean, is working with Oakley on rainfall projections in Northern California. He's excited that newer climate models can predict rain in 15-minute increments. This is a huge advance over past models, which could only predict rainfall by the hour, and will help researchers identify the conditions that trigger flows on burn scars.

While more intense rain is likely in Northern California, Thomas cautions that this won't necessarily translate into more flows. "The geology and landforms are different in Northern California," says Thomas, who grew up in the San Francisco Bay Area and adds as an example that North Bay slopes are not as steep as Big Sur.

Debris flow risks are usually assessed after wildfires. But climate change is shrinking the window between the two hazards. "In Montecito there wasn't enough time between fire and rain," Kean says. "We need to be proactive." He envisions debris flow risk maps much like FEMA's flood risk maps.

Lancaster shares this vision. High-resolution LIDAR (laser), which is much sharper than current imaging, is at the top of his list for assessing debris flow risks in advance. "We need statewide coverage," he says. "You can see thick soils in canyons that could move in a rainstorm, and landscape features that suggest activity, like fresh boulder fields near canyon mouths."

Small, disadvantaged communities are a priority for these risk assessments. "They can be disproportionately affected by hazards because they lack staff and funds to prepare and respond," says Lancaster.

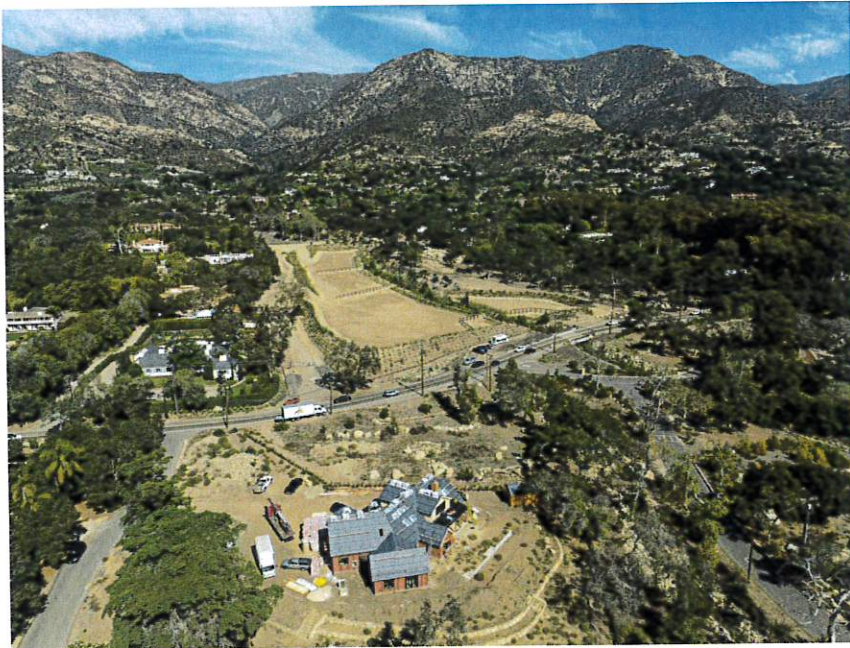
Rebuilding Safely

Skene's neighborhood doesn't look like a dangerous spot to the casual eye. The land is mostly level, and seems well enough away from the foot of the mountains and San Ysidro Creek. But just before the terrain flattens, the creek takes a sharp left — and the flow kept going straight. It overshot the banks, heading right down Randall Road. "By the time the debris flow got there, it was a 40 foot wall of mud with the biggest boulders in

front going 40 miles per hour,” UC Santa Barbara’s Alessio says. Skene’s street was next in its path and it ultimately went all the way to the ocean.

The morning after the debris flow, Skene’s neighborhood looked “like a moonscape,” he says. The flow tore his house apart, taking the back side one way and the garage another way. He lost almost everything and was grateful when someone several miles away found a packet of letters his parents had written each other. He hasn’t been able to read them yet though, he says, tearing up. Many of his neighbors’ homes were also destroyed, and Skene stops at each empty lot to remember who lived there.

But the olive tree that saved Skene’s life still stands and his neighborhood is recovering. Crews rebuilding homes and neighbors greet Skene, who has just returned from a trip, with joy. Thanks partly to his efforts, they know their community will be better adapted to weathering the next big flow their future holds.



*Debris basin constructed near Skene’s house, with a neighbor’s house rebuilt on “protective” pad at bottom.
Photo: Jak Wonderly.*

It’s a short walk from Skene’s lot to the debris basin that will help protect his neighborhood in the future. The basin sits where seven houses once stood on Randall Road and has a capacity of 100,000 cubic yards. It’s also equipped with several rows of sturdy metal racks to catch boulders.

The new basin isn’t big enough to capture a repeat of the 2018 flow, when nearly 390,000 cubic yards came down San Ysidro Creek. But it will slow a flow that size and let the boulders settle out, making any overflow from the basin less destructive. As a further protection, houses are being rebuilt on dirt pads that are elevated as high as 10 feet. “The houses will be on little islands,” Skene says. “When the next debris flow comes — and it will come again — the mud will go to either side.”

Skene plans to rebuild too, using a gigantic mound of sediment left by the flow to raise his new house. Between the insurance claims and construction permits, he expects it will take another four years of red tape, but he's undeterred. "I grew up here," Skene says. "This is my home."

EXTREMES IN 3D

SERIES CREDITS

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Jak Wonderly, Photography

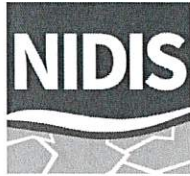
Amber Manfree, Fire Map

Darren Campeau, Science Graphics Support

California AG Today

November 15, 2022

Western U.S. Streamflow Declines Respond Asymmetrically to Seasonal Climate Warming



National Integrated Drought Information System

Although numerous studies have previously explored streamflow responses to annual climate warming, less attention has been given to the differing effects of seasonal (winter vs. summer) warming. It is well-known, for instance, that the seasonal timing of streamflow in snow-affected river basins is strongly affected by warmer winters, which lead to less snow, more rain, and earlier runoff. What has been less understood is how the total volume of runoff changes in a warmer climate, and in particular how the total (annual) streamflow volume responds to warmer winters as contrasted with warmer summers.

To address this gap, UCLA's Land Surface Hydrology Group examined western U.S. streamflow declines in response to climate warming and found they are expected to be asymmetric depending on the season in which most warming occurs. Cooler river basins (which are especially dependent on spring snowmelt) are more sensitive to warmer warm seasons, while warmer river basins (with less snow) are more sensitive to cool season warming. Funding for the research was provided by NIDIS and the California-Nevada Adaptation Program, a NOAA CAP/RISA team.

The results, detailed in two recent *Water Resources Research* papers, are based on predictions of annual streamflow changes resulting from warm (April–September) and cool (October–March) season warming in five large river basins, and 616 smaller ones, across the western United States.

“Our research shows that cooler river basins tend to have larger streamflow declines when warming occurs in the warm season than in the cool season, while the changes are reversed in warmer river basins (i.e., those with less snow). This is linked primarily to the basins’ sensitivity of evapotranspiration to temperature,” according to Zhaoxin Ban, the first author of both papers.

In the second paper, the authors analyzed 616 river basins across the western U.S. with drainage areas mostly in the range from 100 to 1000 km². Of those 616 river basins, 44% are more sensitive to warm season than cool season warming. Those river basins are mainly inland and/or high latitude (north of 37.5°N) and (mostly) at relatively high elevations, many of which are in the northern Columbia River Basin and the Upper Colorado River Basin. About 35% show a larger sensitivity to cool season than warm season warming. They are mainly moist coastal river basins, or low-latitude, and moderately warm.

The remaining basins (about 20%) are either arid (e.g., bordering on the Mojave and Sonoran Deserts, or basins that drain into the Great Basin) or cold with long snow seasons. These basins are predicted to experience annual streamflow increases for a variety of reasons, including long-term snowpack declines that result in earlier runoff occurring at a time of year when evapotranspiration is lower, or that will experience more rapid snowmelt that penetrates into the soil and eventually will reach streams rather than evaporating.

Although the study conclusions are based on model simulations, the authors also utilized observation-based estimates to evaluate their model predictions. They find that while the observation-based inferences are generally similar to their model results, the observation-based results indicate somewhat larger streamflow decreases for cool season warming than do the models, especially in moderately warm regions. The observation-based results also reflect somewhat smaller reductions in streamflow due to warm season warming than do the models, especially in cool regions. Despite these differences, the overall spatial distribution of river basins that are more sensitive to warm vs. cool season warming are similar in the model simulations and observation-based analyses.

AGU

Water Resources Research
Research Article

Asymmetry of Western U.S. River Basin Sensitivity to Seasonally Varying Climate Warming

Zhaoxin Ban, Dennis P. Lettenmaier

First published: 14 February 2022

Abstract

Future climate warming over the Western U.S. (WUS) is projected to be greater in summer than winter. Previous model-based studies of large river basins in the WUS showed much different annual streamflow responses to warming in warm versus cool seasons. However, it remains unclear how the relative responses annual streamflow relative responses to seasonal warming (asymmetry) and drivers of the response asymmetry vary across the entire WUS at the catchment-scale, and how the simulated results compare with observations. Here, we investigate the asymmetry of annual streamflow responses to warm versus cool season warming at the HUC-8 level across the entire WUS using model simulations and observations. We also examine the asymmetries' relationship with land surface and hydroclimate characteristics, and the primary contributor to the response asymmetry for each HUC-8 basin. The HUC-8 level results reveal more complexity than do earlier analyses of much larger river basins. Over 25% of WUS area has annual streamflow increases in response to warming in at least one season (mostly cool season). Annual streamflow is most sensitive to warm season warming in cool, inland basins, especially the northern Columbia River basin and most of the Upper Colorado River Basin, and most sensitive to cool season warming in warm, coastal basins. This bi-directional pattern is enhanced by vegetation coverage but weakened by long-term snowpack decline. In coldest basins with short snow-free seasons, net radiation changes dominate the streamflow response asymmetry. For basins with cold-to-intermediate temperatures, vapor pressure deficit changes dominate. For warmest basins, surface resistance changes dominate.

Key Points

- Annual streamflow relative response to seasonal warming (asymmetry) is similar between large and HUC-8 basins across the Western U.S
- Vegetation enhances, while long-term snowpack-decline reduces, the asymmetry of annual streamflow response to seasonal warming
- Vapor pressure deficit and surface resistance dominate asymmetry aside from a few of the coldest basins where radiation controls

Correspondence



File Code: 1570
Date: November 14, 2022

John Friedenbach
General Manager
Humboldt Bay Municipal Water District
828 Seventh St.
Eureka, CA 95502-0095

Dear Mr. Freidenbach,

The legal notice of the objection period for the Mad River August Complex Project on the Six Rivers National Forest was published on September 2, 2022. You submitted an objection letter on behalf of the Humboldt Bay Municipal Water District. Kimberly Baker, as lead objector, submitted an objection on behalf of Klamath Forest Alliance, the Environmental Protection Information Center, the Northcoast Environmental Center, Safe Alternatives for our Forest Environment, the Klamath-Siskiyou Wildlands Center, and Conservation Congress. A private citizen, Cody Canale, also submitted an objection that didn't meet the content requirements for administrative review.

Your objection expressed concerns regarding the project's limited scope, the timeliness of implementation, and possible downstream effects.

Project Description

The project is found within the Mad River Ranger District portion of the August Complex. The purpose of the project is to increase protection for communities, oak woodlands, late-successional habitats, watersheds, and botanical resources at risk from high-severity wildfire effects, while restoring habitats, creating jobs, and recovering forest products to serve local economies. The Responsible Official in their draft decision, selected the Proposed Action, which proposes roughly 7,000 acres of fuels reduction corridor treatments (i.e., roadside hazard tree abatement); 1,700 acres of linear roadside fuel breaks (i.e., salvage); 1,100 acres of area salvage; 9,900 acres of fuels reduction; 3,700 acres of reforestation, oak restoration, and native plant management, and the installation of a radio communication tower to replace the one lost by the August Complex.

Resolution Meeting

The pre-decisional administrative review process allows the Reviewing Officer, Responsible Official, and objectors to work collaboratively to address concerns prior to a final decision. As part of this process, I met with you and the other objector (virtually) on November 10, 2022. During that meeting, we discussed the importance of treating more of the fire-affected landscape and quickly. Meanwhile, the other objector raised concerns regarding northern spotted owl,



project activities in the inventoried roadless area and riparian reserves, and inconsistencies and a lack of clarity in the project record.

None of the objections were resolved during that meeting, but we agreed there is to clarify some information before the final decision.

Objection Review

I convened a team to review the Draft Decision Notice/Finding of No Significant Impact (DN/FONSI), Environmental Assessment (EA), and associated project record related to the issues you raised in your objection letter. I also considered your suggested remedies along with the discussion we had during the resolution meeting. A summary of my findings is provided below.

Inadequate Proposal

The objection states that the project is inadequate to restore Mad River Watershed and hydrological headwaters, resulting in water quality impacts to Ruth Lake and risking dam function and failure (i.e., life/property) with large woody debris and hazard trees.

While this perspective is understandable, under NEPA, the lead action Agency, in this case the Forest Service and its Responsible Official have the authority to determine scope of the decision being made (36 CFR 220.3 and 40 CFR 1502.13). The concerns brought up by the objector include water quality impacts to Ruth Lake and increased risk of loss of dam function or failure. While there is some nexus between the project's stated purpose of "increasing protection for watersheds" and the objector's concerns, fire-related impacts to Ruth Lake are not part of the project's stated purpose.

The EA (p. 38) demonstrates that the Responsible Official and IDT developed Alternative 4 in response to concerns raised in the water district's scoping and/or comment period comments. Although considered, this alternative was dropped from detailed study because a planning effort, independent from this project called the Six Rivers Hazardous Fuels and Fire Management Project is already being planned.

This project does increase protections to the watershed, as aligned with the project's purpose and need. The record documents that the risk of erosion is greatest immediately after the fire and that the risk is gradually reduced over time with the recovery of vegetation and groundcover. Although the fisheries report (p. 9) does acknowledge that there are water quality concerns that could affect Ruth Lake (reservoir), these concerns are largely linked to the August Complex fire and not to project effects.

Instructions

I have no instructions prior to decision resulting from this objection.

Conclusion

I made a reasonable and appropriate effort to resolve the concerns that were brought forward. I am officially concluding the pre-decisional administrative review process. The Responsible

Official is authorized to proceed with issuance of the final decision, following execution of the instructions resulting from the other objection. There will be no further review of this response by any other Forest Service or U.S. Department of Agriculture official as per 36 CFR 218.11(b)(2).

Copies of my responses to the other objections are posted online at:
<https://www.fs.usda.gov/project/?project=60286> in the Administrative Review folder.

Sincerely,

X 

Signed by: ALAN OLSON
ALAN OLSON
Acting Deputy Regional Forester

cc: Kari Otto, Kristen Lark, Priya Shahani, Talitha Derksen, Wendy Coats

DEPARTMENT OF WATER RESOURCES

P.O. BOX 942836
SACRAMENTO, CA 94236-0001
(916) 653-5791



November 16 2022

Sherrie Sobol
Regulatory Analyst
PO Box 95
Eureka, CA 95502

RE: Urban Water Management Plan Requirements Addressed

Dear Sherrie Sobol

The Department of Water Resources (DWR) has reviewed the 2020 Urban Water Management Plan (UWMP) for the Humboldt Bay Municipal Water District and finds that the UWMP has addressed the requirements of the California Water Code (CWC). The results of the review will be provided to DWR's Financial Assistance Branch.

The CWC directs DWR to report to the legislature once every five years on the status of submitted UWMPs. In meeting this legislative reporting requirement, DWR reviews all submitted UWMPs. DWR's review of plans is limited to assessing whether suppliers have addressed the required legislative elements and does not evaluate or analyze the supplier's UWMP data, projections, or water management strategies.

If you have amended the 2020 UWMP and/or the 2020 Water Shortage Contingency Plan since the submittal of the original document(s), you must submit the amended document(s) to the DWR WUE data portal. Please contact DWR at UWMPhelp@water.ca.gov so that we can assist you in the process of this submittal. As stated in Water Code Sections 10640 and 10642, please note that amendments must have:

- 60-day notification
- Public notification
- Public hearing
- Adoption by the supplier's governing body. Documentation of the adoption must be included with the submittal.

If you have any questions regarding the review of the UWMP or urban water management planning, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Julie Ekstrom".

Julie Ekstrom, Ph.D.
Supervisor, Urban Unit
Water Use Efficiency Branch
(916) 612-4371

Electronic cc:
Chris Harris



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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JOHN FRIEDENBACH

November 7, 2022

Caitlin Canale
General Manager
Ruth Lake Community Services District
Via Email: ruthlakecsd@yahoo.com

Re: Possible Penalty Provisions in RLCSD Sublease Agreements

Hi Caitlin,

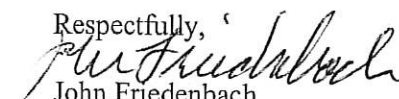
As we have been discussing, the renewal of the Sublease Agreement in the spring of 2023 may be an opportunity for Ruth Lake CSD to include some penalty provisions for egregious acts conducted by lease lot holders at Ruth Lake. As stated in the Master Lease, HBMWD's primary concern is maintaining the high level of water quality at Ruth Lake for drinking and industrial water use. Consequently, the activities listed below have the potential to adversely affect water quality. It may be appropriate to have a tiered or escalating penalty system for repeat offenders. I have some ideas in that regard if you are interested. Some of the areas below may simply need modifications to existing RLCSD policies. Based on our staff's experiences over the past several years, the list below has been compiled for the major offenses, in our opinion, we have experienced.

1. Structure improvements without approvals: RLCSD, HBMWD, Trinity County.
2. Grading without approvals: RLCSD, HBMWD, Trinity County.
3. Water theft: Ruth Lake or Mad River tributaries.
4. Subleasing property. Converts from recreational use property to income producing property.
5. Continuous occupancy of property for longer than seasonal basis.
6. Non-compliance with RLCSD established policies. May want to have progressive fines here with ultimate loss of sublease after 2 or 3 offenses.
7. Any act that harms water quality in Ruth Lake.
8. Unauthorized cutting of trees or removal of stumps.
9. Non-compliance with RLCSD dock policies. [I.E. securing, labeling, construction methods]

We are encouraged to see the revival of the Ruth Lake Leaseholders Association and their Facebook presence. These will be a means for furthering communication between RLCSD, HBMWD and the lease lot holders. Encouraging their participation in this process would benefit all parties.

We are available to discuss further if you like.

Respectfully,


John Friedenbach
General Manager



United States
Department of
Agriculture

Forest
Service

Six Rivers National Forest
Mad River Ranger District

SECTION 8.4 PAGE NO. 1
741 State Highway 36
Bridgeville, CA 95526
707-574-6233
TDD: 707-574-6233
Fax: 707-574-6273

File Code: 2400
Date: November 22, 2022

John Friedenbach
General Manager
HBMWD
PO Box 95
Eureka, CA 95502-0095

Dear Friedenbach

This letter is in response to your request to collect Incense Cedar seedlings located on National Forest Service lands. The seedlings in question are located on or around Dam Camp on the Mad River Ranger District of the Six Rivers National Forest.

I am authorizing you to collect up to 50 Incense Cedar seedlings around the administrative site of Dam Camp, located downstream of the R.W. Matthews Dam. When collecting seedlings please abide by the below collection guidelines as best as possible. Please notify Forester Bronson Dillard prior to commencing work.

Collection Guidelines:

- 1) Disperse the collection throughout the entire site.
- 2) Collect the healthiest and youngest seedlings possible.
- 3) Avoid seedlings that are over a foot tall (lower probability of transplant survival).
- 4) Fill all holes.
- 5) Contact Bronson Dillard (Forester) for site inspection after collection is complete.

If you have any questions please contact District Ranger Kristen Lark at 707-382-8427 or by email at kristen.lark@usda.gov. Alternatively you can reach out to Bronson Dillard at 707-572-0626 or by email at bronson.dillard@usda.gov.

Sincerely,

X 

For

Signed by: LEJON HAMANN

KRISTEN LARK
District Ranger





File Code: 5300
Date: November 22, 2022

John Friedenbach
General Manager
HBMWD
PO Box 95
Eureka, CA 95502-0095

Dear Friedenbach

This letter is in response to your request to obstruct illegally constructed roads on National Forest Service lands. Currently, two illegal roads have been identified that cross through the Mad River Ranger District, Six Rivers National Forest, to access Ruth Lake. The first illegal road is located at approximately 40.315838, -123.386125 off of Ruth Zenia Rd. and the second illegal road is located at approximately 40.348132, -123.409122 off of Lower Mad River Rd. Locations at the end of these illegal roads have been used for camping, campfires, disposal of waste and trash, and launching of small watercraft. Uncontrolled campfires are potentially hazardous to the health and safety of the surrounding community and the uncontrolled access to the lake compromises the Quagga and Zebra muscle prevention plan implementation measures.

I am authorizing you to place boulders on Forest Service land to obstruct access to these illegal roads and to place signs up to discourage people from trying to access these illegal roads. Additionally, you are authorized to place signs at the illegal camp locations stating that there is no camping, no campfires, and no water access permitted at these locations. If you do not have signs on hand for this purpose we will work with you to obtain the needed signs. When obstructing the illegal roads and placing signage out please abide by the below guidelines as best as possible.

Guidelines:

- 1) Place boulders on Forest Service or HBMWD property.
- 2) Place boulders so that vehicles cannot go around them to access the road.
- 3) Place necessary signage at access point to the illegal road and around the illegal camp site.
- 4) Contact Mad River District Ranger for site inspection after collection is complete.

Thank you for bringing this matter to our attention and your on-going efforts to resolve this problem. If additional illegal roads are identified please bring these to the attention of the Mad River Ranger District as soon as possible so that we can work together to obstruct these roads and in time obliterate them.

If you have any questions please contact District Ranger Kristen Lark at 707-382-8427 or by email at kristen.lark@usda.gov.



Sincerely,

X 

For

Signed by: LEJON HAMANN
KRISTEN LARK
District Ranger



Continuing Business

**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.COMWebsite: www.hbmwd.com**BOARD OF DIRECTORS**

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GENERAL MANAGER

JOHN FRIEDENBACH

November xx, 2022

Ms. Nicole Yuen
Hazardous Substances Engineer
DTSC
Via Email: Nicole.Yuen@dtsc.ca.gov

RE: McNamara & Peepe Glendale site visit November 4, 2022

Dear Ms. Yuen,

We appreciate you and your staff taking the time to participate in the site visit with the US EPA, Regional Water Quality Control Board, and HBMWD staff/consultants at the McNamara & Peepe site on Glendale Drive. We believe the meeting was beneficial for seeing the current site conditions and discussing the concerns and process moving forward. The following comments/need for clarifications were the experiences from HBMWD and our consultants.

1. Kindly confirm if this site is a DTSC Priority 1 or a Priority 1-a site?
2. How will DTSC determine the extent of contamination at the entire site (not just in the immediate vicinity of the Cap)? Surface water and ground water results have shown contamination beyond the Cap. This is very concerning to our District as is the fact that dioxins are present in ground water.
3. During future site investigation work, how will DTSC ensure that sufficient sample locations and quantities of soil are collected such that valid analysis can be performed to detect the presence of PCP, TCP, and dioxins? We are concerned that the bench-scale study currently underway is being conducted without dioxin analysis.
4. What is DTSC's confirmed budget for investigation and clean up for the site and the timeline for both processes? Previously communicated timelines for both have not been kept which is a major concern of our District.
5. For remediation of the site, we request that a full range of alternatives, including excavation and removal of contaminated soil, be developed and presented for evaluation in a transparent process. We reiterate our request to have an NPL – compliant RI/FS (National Contingency Plan-compliant Remedial Investigation and Feasibility Study) that includes a human health and ecological risk assessment.

Again, we appreciate your participation in the site visit and we look forward to achieving site clean up quickly with EPA and Water Quality Control Board oversight and assistance.

Respectfully,

John Friedenbach
General Manager

Cc: Congressman Jared Huffman
Senator Mike McGuire
Assemblymember Jim Wood
Cynthia Ruelas, EPA
Harry Beller, EPA
Heidi Bauer, SWRQB



Yana Garcia
Secretary for
Environmental Protection



Department of Toxic Substances Control

Meredith Williams, Ph.D., Director
700 Heinz Avenue
Berkeley, California 94710-2721



Gavin Newsom
Governor

November 14, 2022

Mr. Erik Nielsen (via electronic mail: enielsen@shn-engr.com)
Project Manager
SHN Consulting Engineers and Geologists, Inc.
812 West Wabash Avenue
Eureka, California 95501

Contract No.: 20-T4839 Amendment 2
Site Name: McNamara and Peepe Lumber Mill
Scope of Work Title: Site Investigation

Dear Mr. Nielsen:

In accordance with this Contract, enclosed is the Work Order No. 1, which describes the Scope of Work and the amount of this Work Order. This letter serves as the Contractor's authorization to commence work immediately.

This Work Order is issued under the authority of the Contract between the Contractor and the Department of Toxic Substances Control (DTSC). The terms and conditions of the Contract shall govern the execution of this Work Order Amendment, and this document shall become part of the Contract upon issuance. If the Contractor fails to notify the Project Manager/Contract Manager that the cost of work performed will exceed the maximums allowed in the Work Order Pricing Schedule (Attachment B) before such costs are incurred, it may be determined that the Contractor has acted as a "volunteer" in rendering those services and is not entitled to additional payment.

Work on the Work Order shall be immediately curtailed upon receipt of a Stop Work Order, in accordance with Section 6.C (Stop Work Orders) in Exhibit A of the Master Contract 20-T4839, issued by the Contract Manager.

Mr. Erik Nielsen
November 14, 2022
Page 2 of 2

The Project Manager for this Work Order is Nicole Yuen and should be contacted at (510) 540-3881 or via e-mail at Nicole.Yuen@dtsc.ca.gov for further information. The Project Manager shall supervise and approve all work performed and/or deliverables required under this Work Order.

Sincerely,

A handwritten signature in black ink, appearing to read 'Moises Carvalho', written in a cursive style.

Moises Carvalho, P.G., Contract Manager
Site Mitigation and Restoration Program – Berkeley Office

Enclosure

cc: Mei Yee Ho, MeiYee.Ho@dtsc.ca.gov
Nicole Yuen, Nicole.Yuen@dtsc.ca.gov
Jennifer Boruck, Jennifer.Boruck@dtsc.ca.gov

DEPARTMENT OF TOXIC SUBSTANCES CONTROL (DTSC)
SITE MONITORING

Work Order Approval Form

McNamara and Peepe Lumber Mill
Site Name/Project Name

20-T4839 A-2
Agreement No.

Site Investigation
Scope of Work Title

1
Work Order No.


200066/17018
Project/PCA Code

Work Order Amendment No.

\$ 180,224.65
Total Amount of This Work Order or
Amendment

\$ 421,300.25
Total Cumulative Cost of Work
Order

I have reviewed the attached Work Order or Amendment and agree that the Scope of Work described is necessary and adequate and that the project costs, terms, and conditions are acceptable.



DTSC Project Manager

11/14/2022
Date



SHN Consulting Engineers and
Geologists, Inc.

11/14/22
Date



DTSC Contract Manager

11/14/2022
Date

SHN Consulting Engineers & Geologists, Inc.
20-T4839, Amendment 2

WORK ORDER NUMBER 1

SHN Consulting Engineers and Geologists, Inc. (Contractor) is hereby authorized to provide personnel, services, materials and equipment to conduct investigation activities at the McNamara and Peepe Lumber Mill site (Site) located at 1619 Glendale Drive, McKinleyville, California. Groundwater and surface water monitoring and site investigation fieldwork will be conducted in accordance with the requirements outlined in the Standard Agreement, 20-T4839, Amendment 2 (Contract). The bid rates and Terms and Conditions of the Contract shall apply.

The Scope of Work (Attachment A) and Budget (Attachment B) are hereby incorporated by reference into this Work Order.

GENERAL PROVISIONS

1. The work is to be conducted in accordance with the requirements outlined in the Standard Agreement.
2. Bid Rates and Terms and Conditions of the Contract shall apply to this Work Order and be incorporated by reference.
3. Actual costs shall be invoiced no more often than monthly upon completion of the described activities in this Work Order.
4. Actual Costs will be paid in accordance with the Contract Terms and Conditions.
5. Contractor shall be reimbursed for general and administrative overhead expenses (GAO) associated with obtaining all non-bid equipment, materials, supplies, and subcontracted services. For non-bid rate items of expenditure, State agrees to pay the contractor for any actual costs incurred without any additional markup for profit.
6. Travel is authorized for Contractor's staff. All travel costs including lodging, per diem, and mileage will be paid at State rates for non-represented employees. No markup will be allowed.
7. For all non-bid rate items, the approved handling fee is 10%.
8. For this Work Order No. 1, the total costs of the activities described in the Scope of Work (Attachment A) shall not exceed \$180,224.65.

ATTACHMENT A SCOPE OF WORK

I. WORK ORDERED

The Contractor is hereby authorized to perform the activities listed as Tasks 1 through 13.

The Contractor shall conduct all activities in a timely and cost-effective manner. All deliverables shall be submitted to Department of Toxic Substances Control (DTSC) for approval. Properly-trained and qualified individuals shall conduct all field and laboratory procedures

All samples submitted to the laboratory shall follow DTSC- or EPA-approved sampling and analytical methods.

All submittals shall include a draft version of the document in electronic form (in editable Word text and figures in PDF) for DTSC review. The final version should be produced in one (1) bound paper copy and in electronic (PDF) format.

Task 1 – Groundwater Sampling

Groundwater samples shall be collected during at least two (2) rounds of groundwater monitoring from ten (10) groundwater monitoring wells at the Site. Groundwater samples shall include analysis for pentachlorophenol (PCP) and tetrachlorophenol (TCP) in all groundwater samples. Groundwater samples from MW-1, MW-5, MW-10, MW-11, MW-12, MW-13 and MW-14 shall also be analyzed for dioxins. A duplicate sample shall be collected from MW-10 and analyzed for PCP, TCP, and dioxins.

All groundwater samples shall be field filtered and analyzed in the field for dissolved oxygen, oxidation-reduction potential, pH, turbidity and temperature using a calibrated water quality meter combined with a flow through cell. Groundwater level measurements shall be collected from all site monitoring wells during the groundwater sampling event.

Contractor shall implement the Groundwater Monitoring Work Plan: dated July 31, 2019, available on Envirostor.
([https://www.envirostor.dtsc.ca.gov/public/deliverable/documents/4478609979/DTS C%20MP%20WorkPlan Final.pdf](https://www.envirostor.dtsc.ca.gov/public/deliverable/documents/4478609979/DTS%20C%20MP%20WorkPlan%20Final.pdf)).

Deviations to this workplan shall be submitted to DTSC for approval prior to fieldwork.

Task 3 – Groundwater Monitoring Report

The Contractor shall prepare a summary report after each groundwater monitoring event as described in Task 1. The Report shall include the following:

- Sample analysis results including summary tables and laboratory analysis reports;
- Figures depicting groundwater elevation contours and results for constituents of concern;
- Isoconcentration contour and flow direction maps;
- Groundwater sampling field forms;
- Deviations from the 2019 Workplan;
- Laboratory data validation.

Task 5 – Surface Water Sampling

Contractor shall conduct at least two (2) rounds of surface water monitoring at the Site. Each round will include a total of at least eight (8) surface water locations or as directed by DTSC. Contractor shall implement the DTSC-approved Surface Water Monitoring Work Plan, dated February 2021, available on Envirostor (https://envirostor.dtsc.ca.gov/regulators/deliverable_documents/8918734490/20210203-SW-SAP.pdf). The first surface water monitoring event shall include analysis for PCP, TCP, and dioxins as directed by DTSC. Deviations to this workplan shall be submitted to DTSC for approval prior to fieldwork.

Task 6 – Surface Water Monitoring Reports

Contractor shall prepare a surface water monitoring report for each monitoring event in Task 5. The reports shall summarize the activities and sample testing results, along with figures depicting sampling locations and constituents of concern.

Task 9 – Site Investigation Technical Memorandum

Contractor shall submit a technical memorandum that provides a discussion of the results from the site investigation field program for review and approval. The memorandum shall include well installation, soil borings, figures, tables, copies of all laboratory analytical data, and field observations.

Task 11 – Meetings and Miscellaneous Tasks

Contractor shall participate in meetings with DTSC, as needed, and support DTSC in responding to comments from the public and other agencies.

Task 12 – Site Investigation Work Plan

Contractor shall prepare a work plan for the installation of up to 15 soil borings with up to five (5) temporary well points and the installation of one additional monitoring well. Contractor shall submit the draft work plan to DTSC for review and comment prior to a final version being completed.

Task 13 – Site Investigation Field Program

Contractor shall conduct field work according to the approved workplan. Contractor shall prepare and submit permit applications and appropriate fees for well installation to the Humboldt County Department of Environmental Health. The Contractor will be responsible for the utility clearance, waste profiling, transportation, and disposal of any debris, soils, or other wastes. Properly trained and qualified individuals shall conduct all field and laboratory procedures.

II. DESCRIPTION OF WORK ORDERED AND SCHEDULE

Task	Description	Schedule
1	Groundwater Sampling	First round after Task 13 is completed by March 31, 2023 Second round completed by October 31, 2023
3	Groundwater Monitoring Report	No later than 4 weeks after groundwater sampling event
5	Surface Water Sampling	Both rounds completed by December 31, 2023 depending on rain events
6	Surface Water Sampling Report	No later than 4 weeks after surface water sampling event
9	Technical Memorandum	No later than 4 weeks after Task 13 is completed
11	Meetings and Miscellaneous Tasks	Throughout length of contract
12	Site Investigation Work Plan	No later than January 15, 2023
13	Site Investigation Field Program	No later than April 1, 2023

III. CONDITIONS OF PAYMENT

The Contractor may submit an invoice once each task has been completed as follows:

Tasks 1, 5, 13:

- Upon completion of each Task

Tasks 3, 6, 9, 12:

- Upon submittal of draft deliverable: actual hours up to 75% of task budget
- Upon approval of final deliverable: actual hours up to 25% of task budget.

Task 11:

- As completed throughout the length of the contract.

Please note that invoices cannot be submitted more than once a month.

Budget

The Budget shall not exceed \$180,224.35 and the total breakdown is as follows:

TABLE - SUMMARY OF COSTS BY CATEGORIES

Labor	\$62,496.00
Other Direct Costs and Travel (Equipment/Materials/Permits/ Reproduction/Supplies/Miscellaneous)	\$117,728.35
Total	\$180,224.35

The DTSC Contract Manager may move funds between line items in the budget as long as it does not exceed the total budgeted amount.

Contractor shall submit no more than one invoice per month.

*Access to and use of funding from the contingency line item shall be directed by the DTSC Contract Manager only and requires written approval by the DTSC Contract Manager through a Work Order.

Schedule of Other Direct Cost Items

Other Direct Cost items which may be used during the performance of this Contract which are not included in Contractor's overhead will be billed to DTSC at the actual cost with a 10% fee and requires approval of the DTSC Contract Manager. These direct cost items include, but are not limited to, the following:

<u>Item</u>	<u>Cost to DTSC</u>
Equipment (owned or rented)	Market rental rates
Laboratory Services	Actual cost per test
External Services	Actual cost
Subcontractor Costs	Actual cost
External reproduction	Actual cost
Freight and Delivery	Actual cost
Materials/Supplies	Actual cost

ATTACHMENT B BUDGET McNamara and Peepe

Cost Estimate: 2022-2023 Site Investigation & GW/SW Monitoring																					
Project: McNamara Peepe Lumber Yard		Task		1		3		5		6		9		11		12		13		Total	
Site Code 200066																					
Location: Arcata, CA		Groundwater Monitoring - 2 Events		Groundwater Reports - 2 Reports		Surface Water Monitoring - 2 Events		Surface Water Reporting - 2 Reports		Site Investigation Technical Memorandum		Meetings and Miscellaneous Tasks		Subsurface Investigation Work Plan - 1		Site Investigation Field Program - 1					
LABOR	Unit Rate (\$)	Units	Task (\$)	Units	Task (\$)	Units	Task (\$)	Units	Task (\$)	Units	Task (\$)	Units	Task (\$)	Units	Task (\$)	Units	Task (\$)	Total Units	Total (\$)		
Project Manager	\$180.00	5	\$900.00	8	\$1,440.00	4	\$720.00	6	\$1,080.00	8	\$1,440.00	12	\$2,160.00	8	\$1,440.00	12	\$2,160.00	63	\$11,340.00		
Geologist	\$126.00	8	\$1,008.00	16	\$2,016.00	8	\$1,008.00	16	\$2,016.00	16	\$2,016.00	8	\$1,008.00	24	\$3,024.00	60	\$7,560.00	156	\$19,656.00		
Enviro Staff	\$120.00	48	\$5,760.00	16	\$1,920.00	24	\$2,880.00	12	\$1,440.00	24	\$2,880.00		.00	12	\$1,440.00	48	\$5,760.00	184	\$22,080.00		
QA/QC	\$175.00		.00	4	\$700.00		.00		.00	4	\$700.00		.00	4	\$700.00	4	\$700.00	20	\$3,500.00		
Drafter	\$109.00		.00	4	\$436.00		.00		.00	4	\$436.00		.00	4	\$436.00		.00	12	\$1,308.00		
Admin	\$93.00		.00	8	\$744.00		.00		.00	4	\$372.00		.00	4	\$372.00		.00	16	\$1,488.00		
QSD	\$158.00		.00		.00	2	\$316.00	2	\$316.00		.00	2	\$316.00		.00		.00	6	\$948.00		
Surveyor	\$136.00		.00		.00		.00		.00		.00		.00		.00	16	\$2,176.00	16	\$2,176.00		
		61	\$7,668.00	56	\$7,256.00	38	\$4,924.00	36	\$4,852.00	60	\$7,844.00	26	\$4,184.00	56	\$7,412.00	140	\$18,356.00	473	\$62,496.00		
MATERIALS and ODCs	Unit Rate (\$)	Units	Task (\$)	Units	Task (\$)	Units	Task (\$)	Units	Task (\$)	Units	Task (\$)	Units	Task (\$)	Units	Task (\$)	Units	Task (\$)	Total Units	Total (\$)		
Other Direct Costs (ODCs)																					
Equipment																					
Groundwater sampling equipment	\$200.00	2	\$400.00																		
Misc equipment	\$100.00					2	\$200.00									1	\$200.00	3	\$600.00		
Subcontractors																2	\$200.00	4	\$400.00		
Analytical PCP/TCP	\$200.00	30	\$6,000.00			26	\$5,200.00												\$0.00		
Analytical dioxins	\$650.00	25	\$16,250.00			26	\$16,900.00									36	\$7,200.00	92	\$18,400.00		
IDW testing (soil/water)	\$1,118.00	1	\$1,118.00													12	\$7,800.00	63	\$40,950.00		
Waste disposal (drums)	\$400.00	2	\$800.00													2	\$2,236.00	3	\$3,354.00		
Sample shipping	\$266.00	4	\$1,064.00			4	\$1,064.00									4	\$1,600.00	6	\$2,400.00		
Driller	\$38,400.00															4	\$1,064.00	12	\$3,192.00		
Permits	\$1,065.00															1	\$36,500.00	1	\$38,400.00		
ODCs			\$25,232.00		.00		\$23,164.00		.00		.00		.00		.00	1	\$1,065.00	1	\$1,065.00		
ODC Fee 10 %			\$2,523.20		.00		\$2,316.40		.00		.00		.00		.00		\$57,465.00		\$107,761.00		
Travel	\$0.63	120	\$75.00		.00	90	\$56.25		.00		.00		.00		.00	240	\$150.00		\$10,776.10		
Total ODC			\$28,230.20		.00		\$25,736.65		.00		.00		.00		.00		\$63,761.50		\$117,728.35		
Task Total Costs			\$35,898.20		\$7,256.00		\$30,660.65		\$4,852.00		\$7,844.00		\$4,184.00		\$7,412.00		\$82,117.50		\$180,224.35		



HUMBOLDT BAY MUNICIPAL WATER DISTRICT

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

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GENERAL MANAGER

JOHN FRIEDENBACH

November xx, 2022

Nicole Yuen
Hazardous Substances Engineer
DTSC
Via Email: Nicole.Yuen@dtsc.ca.gov

RE: Former McNamara & Peepe Lumber Mill Second Half 2022 Groundwater Monitoring Report October 2022

Dear Nicole,

We have reviewed the Second Half 2022 Groundwater Monitoring Report dated October 2022 prepared by SHN. Kindly respond to the following comments regarding the test results.

From the results presented in Table 2

1. We noted that MW-1 and MW-10 show the highest dioxin Toxic Equivalent Quotient (TEQ). How does DTSC explain the high results at these two locations compared to the non-detection of dioxins from sampling in August 2022 in the Private Well which is directly between the cap and MW-10, and down gradient from MW-1 and MW-12?
2. MW-7, MW-8, and MW-9 were not analyzed for Dioxins, despite high levels of dioxins in surface water collected upslope from the cap on April 14, 2022 (SW-2 and SW-6).¹ If DTSC's responsibility is to fully characterize the extent and nature of contamination at the site in order to develop a new Remediation Plan and prevent off-site movement of contamination, why are these wells being excluded from testing for Dioxins?

General Site comments

¹ According to the Stormwater Sampling Report dated June 27, 2022, **SW-2** is located east of the central drainage in a plastic-lined conveyance structure upstream from the cap. This sample location is intended to identify conditions in stormwater prior to contact with the cap. Dioxins TEQs were 96.1 pg/L.

SW-6 is located in a concrete conveyance structure upstream from the cap and stormwater sample location SW-2. This sample location is a collection point for sheet flow across a paved area bordered by concrete surfaces that show indication of exposed underlying soils. Dioxin TEQs were 121 pg/L.

3. Prior surface water samples from February 2021 showed Dioxin TEQs at all sample locations. This would seem to indicate its presence upgradient and cross gradient of the Cap and therefore warrants testing in all groundwater monitoring wells to determine the extent of Dioxin contamination at the site.

4. When will new monitoring wells be installed to further delineate the extent of contamination to the east and upslope of the cap? The Work Order approved on Nov. 14 appears to be limited to ongoing monitoring of areas that have been monitored in the past. Without assessing contamination levels in soil and groundwater, the Work Plan is unlikely to identify the full extent of contamination that is contributing to off-site movement of dioxins and pentachlorophenol in both groundwater and surface water. Areas to the east and upslope from the Cap where contamination has been detected must be assessed to prevent further off-site mobilization of these contaminants.

5. New monitoring wells should also be installed downgradient to delineate migration off-site, particularly on the former McNord Lumber property, which is the subject of a voluntary agreement between the landowner and DTSC. With dioxins detected in surface water flowing into Hall Creek and Mad River, identifying the full extent of contamination off-site is critical.

Respectfully,

John Friedenbach
General Manager

Cc: Cynthia Ruelas, EPA
Harry Beller, EPA
Heidi Bauer, SWRQB

Humboldt Bay Municipal Water District

To: Board of Directors

From: Chris Harris

Date: December 8, 2022

Re: RFP Results for Fire Fuel Reduction and Defensible Space Project/Contract Award

Review

The District published the RFP for the CalFire Fire Fuels Reduction Project on October 14, 2022. Staff was pleased that the District received five responses by the November 16, 2022 deadline. All of the companies that submitted responses are qualified to complete the project.

Although some of the various contractors bid individual Sub-Phases at a rate less than Greentek Services, when reviewing the project on a "lowest Sub-Phase cost", the savings by using Greentek Services exceeded \$20,000. As seen below, the **overall** project bid cost for all Phases by Greentek Services was significantly less than the other bidders.

Summary of RFP responses:

	Meyer's Land Clearing	Julian Tree Care	Greentek Services	John Boak Logging	Watershed Research & Training Center
Phase 1	\$224,500	\$91,600	\$68,778.88	\$179,839	N/A
Phase 2	\$5,500	\$19,200	\$10,660.35	\$11,100	\$15,600
Phase 3	\$58,500	\$81,600	\$48,713.04	\$80,500	\$71,600
TOTAL	\$288,500	\$192,400	\$128,152.27*	\$271,439	Partial
			*All or nothing pricing		

Staff Recommendation

Staff recommends the Board approve entering into a contract with Greentek for the Fire Fuels Reduction and Defensible Space Creation Project in the Ruth area and direct staff to prepare the appropriate documents to implement the project.

Attachments

RFP Response from Greentek Services



**Greentek Services' Response to
RUTH AREA FIRE FUEL REDUCTION & DEFENSIBLE SPACE
PROJECT**

Submitted November 15, 2022

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Company Overview

Company Name: Greentek Services, LLC

Headquarters Address: 135 Azalea Cir, Romeoville, IL 60446

Western Office: 10288 Crescenzi Place, Smartsville, CA 95977

CAGE Code: 8MMDI • **UEI:** U21VQCVKKEJ3 • **DUNS:** 080101968

Contact Person: Melissa Huizinga, melissa@greentekservices.com, 630-809-4344

Experience

Summary

In the last three years, Greentek has managed the removal of over 65,000 trees that were posing a threat to utility infrastructure and 40,000 trees that were damaged by fires. We have also worked on pipeline projects mowing, clearing brush and vegetation, and closely coordinating our activities with environmental agencies.

Our owners have over 45 years of experience in tree work and management of medium and large federal, state, and utility projects. Our majority owner, Melissa Huizinga, also owns Arborworks, LLC of Illinois (**WOSB**; UEI: **SVCNUHML4TY5**; CAGE **5BZT3**). In addition to steady utility work, Arborworks has worked with the US Army Corps of Engineers on multiple contracts involving planting, landscaping, tree removal, and stump grinding: Saylorville Lake (Contract No W912EK-16-D-0008) and Blackhawk Park (W912ES-14-P-0058). As a certified Woman Owned Small Business (WOSB), Arborworks has strategically used its skills and certifications to make a name in the utility industry. The company has performed successfully as a Tier 2 Supplier for ComEd (the Exelon utility covering Chicago and northern Illinois) and as a prime supplier for Duke Energy, Ameren of Illinois, and various federal entities. Arborworks has removed over 25,000 ash trees and brought in over \$17 million in revenue on the ComEd system alone.

Experience & Relevance

#1

Contract #: California Department of Resources Recycling and Recovery Agreement # 20046

Amount: \$5.75 million (tree removal) | **Dates Performed:** Nov. 2020-July 2021

Project Name: Paradise Hazardous Tree Removal

Agency: CalOES/FEMA

Contact Person: Nathan Bamford of SOPB Joint Venture | **Phone:** 530-990-6674

Email: nbamford@bamfordinc.net

Description: Remove hazardous trees in the town of Paradise.

#2

Contract: Vegetation Management

Amount: \$7 million | **Dates Performed:** Nov. 2021-present

Project Name: Vegetation Management for Pacific Gas & Electric (PG&E) under Atlas Tree

Agency: PG&E

Contact Person: Phil Rogacki (Atlas Tree) | **Phone:** 510-455-0829 | **Email:** phil@atlas-tree.com

Contact Person: Jonathan Lockwood (PG&E) | **Phone:** 707-572-0133 | **Email:** jglf@pge.com

Description: Maintenance of trees along power lines

#3

Contract #: 140P8521Q0023 | **Amount:** \$178,750 | **Dates Performed:** October 2021

Project Name: Hazardous Tree Removal

Agency/Owner: Yosemite National Park

Contact Person: Lisa Henson | **Phone:** 928-612-0074 | **Email:** Lisa_Henson@nps.gov

Description: Hazardous tree and vegetation removal along 3/4 miles of distribution power lines. Elevations in this area ranged from 2,000 feet to 5,000 feet. This location was considered an "extreme" fire danger area. These area was very remote from local services including supplies, materials, hotels, and limited cellular service. The terrain was steep, overgrown, and rocky. Vegetation included trees such as fir, pine, oak Manzanita, Poison Oak, Scrub Oak and Chaparral.

#4

Contract #: 140P8621P0059 | **Amount:** \$248,909 | **Dates Performed:** November 2021

Project Name: Hazardous Tree & Vegetation Removal

Agency: Sequoia & Kings Canyon National Park

Contact Person: Patty Payne | **Phone:** 559-565-3181 | **Email:** Patty_Payne@nps.gov

Description: Remove hazardous trees along roads and near campgrounds.

Applicability of Referenced Projects

On our government projects, we worked safely and efficiently on hazardous tree removal projects, meeting deadlines and exceeding expectations of the contracting officers. Working conditions in Yosemite were cross country and steep. In Sequoia and Kings Canyon National Parks, where some of the largest trees in the nation are located, we worked in campgrounds, providing a safe environment for the public.

During our work in Paradise we encountered numerous tribal and historical artifacts throughout the community. We worked with archaeologists and tribal monitors to ensure preservation of such artifacts and landscapes. All riparian areas had to be worked under the close supervision of Contract Foresters. Biologists on the contract ensured all environmental rules and practices were being followed.

Experience with Fire Safety

Wildland fire training policies are followed and proper training is provided. Orientation covers possible risks and mitigation for spot fires. Training is given to all employees for prevention of fire and extinguishment methods using hand tools and or water supply (water buffalo, backpack) and checking equipment for safety and compliance with each use.

Greentek Services has special training and certifications relative to fire protection and safety. Multiple members of our staff hold the Fire Card and S110 Basic Wildland Fire certifications.

Key Personnel

Melissa Huizinga, President; 20 years experience, 2014-2022

Melissa Huizinga has been in the horticultural and arboricultural industry for over 25 years. With a wide range of experience from nursery management and tree care company administration to field oversight, arborist training, safety certifications, and TCIA accreditation, she has extensive knowledge of the industry. She works closely with the supervisors on the field and office staff to ensure contracts are fulfilled according to specifications. Under her leadership, the company has experienced exponential growth and expanded its capabilities to meet the ever-evolving industry of tree care and land management. Huizinga owns Arborworks LLC of Illinois and Greentek Services of California.

In the beginning years of Arborworks LLC, Melissa secured a number of federal contracts that were fulfilled successfully and resulted in satisfied customers. For example, the option years on

the contract for the USACE Saylorville Lake was to the maximum allowed after two awards due to the satisfactory, safe performance and competitive pricing offered. Additional federal contracts were won with the US Army (Fort McCoy, Wisconsin) and National Park Service (Kennesaw National Park, Georgia). In addition to our federal portfolio, satisfied clients at Arborworks LLC include the Forest Preserve District of Cook County, the City of Wheaton, the Village of Hanover Park, the Village of Glen Ellyn, Nicor Gas, and more.

Melissa Huizinga is a certified Tree Care Safety Professionals (CTSP) certified by the TCIA. She possesses a unique industry knowledge that has propelled Arborworks forward. The management team includes Melissa Huizinga, Joshua Saint, James Myers, Sergio Flores, Leigh Saint, Carlos Ramirez and Sarah Snyder. Each member brings unique skills, experiences, and abilities to the company, making a powerful team.

Joshua Saint, Project Manager & Field Operations Supervisor; 25 years experience, 2019-2022

Five years of industry experience as General Manager of Baskin Nursery (Grayson, Georgia), a wholesale grower and greenhouse operation. Specialized in ground covers and small shrubs, supplying 150+ Home Depot Garden Centers along the east coast.

Saint ensures each project is done safely, efficiently, and in compliance with all specifications. His background is in pulpwood, logging, and large nursery/horticultural production. Saint is a certified Tree Care Safety Professionals (CTSP) certified by the TCIA.

In his years with Greentek, he has provided skilled management that has resulted in successful projects. Using his project management and logistical skills, he has managed several multi-million dollar projects. Saint has worked in developing a strong onboarding program that assesses practical skills including tree climbing, aerial rescue, high risk tree assessment, chipper safety, EHAP, and CPR/First Aid certification.

Leigh Saint, ISA Certified Arborist, Utility Specialist, TRAQ Certified, QAL, Wilderness First Responder, 2019-2022

With a variety of outdoor experience in arboriculture and horticulture, Saint provides professional guidance in the field. In addition to her ISA Arborist certification, she is a certified trainer in CPR & First Aid through the American Heart Association and holds a Wilderness First Responder certification. On projects located in remote areas, Ms. Saint provides the expertise and skills to help keep our crews safe.

Emilie Jellema, Construction Quality Control (CQC) Manager, 2021-2022

Jellema (ISA Certified Arborist, Utility Specialist, TRAQ Certified), one of on-staff arborist, provides technical and professional guidance on projects. She will serve as the **CQC Manager** to enforce contract specifications.

James Myers, Jobsite Foreperson (JF), Field Operations, OSHA 30, 2019-2022

Myers has managed crews on multiple large-scale utility and non-utility contracts. He possesses extensive experience conducting wide scale ROW clearing and land clearing and tree removals with cranes, buckets, and manual crews. Myers manages QLCA climbers, equipment operators, ground workers, providing the leadership and communication necessary to succeed on projects.

Sergio Flores, Field Operations, OSHA 30, 2019-2022

Flores has also managed crews on multiple large-scale utility and non-utility contracts. In 2020, he managed crews on fire cleanup for PG&E, under A&E Arborists, in Santa Cruz, California. He possesses extensive experience conducting wide scale ROW clearing and land clearing and tree removals with cranes, buckets, and manual crews. Flores communicates with environmental specialists and project managers, adhering closely to project guidelines.

Carlos Ramirez, SSHO, EM-385-1-1, OSHA 30, CTSP, 2021-2022

With many years of experience as safety coordinator for high-level tree removal and wood management projects, Ramirez brings a wealth of knowledge to the field. His close knowledge of the tree industry has prepared him to look at safety objectively, with a critical eye in order to provide pertinent feedback to field and management.

Roy Estakhri, Certified Safety, 2021-2022

With many years of experience as safety coordinator for federal, state, and utility projects, Estakhri brings a wealth of knowledge to the field. His years with CalOSHA also prepared him to look at projects with a critical eye and provide pertinent feedback to field and management. Estakhri's certifications include ICS 100, ICS 200, IS 340, IS 700, IS 701, IS 800, IS 860, IS 1900, S290, S230, S231, EM-385, and numerous OSHA qualifications.

Project Exceptions

Greentek Services, LLC is only interested in this project as an all or nothing bid for the pricing provided.

Appendix E: Proposal Form

APPENDIX E: BID PROPOSAL FORM

This Bid Proposal Form must be completed and included with the Bid Proposal Packet. Contractor may bid on individual sub-phases or may bid on all sub-phases, but a separate bid amount must be listed for each sub-phase the contractor wishes to be considered for. All listed lease lots within each sub-phase **MUST** receive Fire Fuels Reduction (FFR) and Defensible Space creation (DSC) as applicable. **NO** listed lease lots within the sub-phases may be excluded from the bid process without a specific written change by Humboldt Bay Municipal Water District. Any sub-phases without a bid amount will be omitted from consideration. The bid amount for each sub-phase must be inclusive of all costs, whether direct or indirect, including profit and overhead.

BID PROPOSAL FORM		
Contractor Name:		
Phase 1		
Sub-Phase 1A	Lease Lots 2, 3, 4, 6, 7, 8, 9	\$ 26,969.89
Sub-Phase 1B	Lease Lots 10, 10a, 10c, 10d, 10e	\$ 19,648.89
Sub-Phase 1C	Lease Lots 11a, 11b, 12, 13	\$ 12,183.25
Sub-Phase 1D	Lease Lot 15	\$ 5,076.36
Phase 2	Lot 15 Drive Way	\$4,900.49
Sub-Phase 2A	Lease Lots 101, 102, 101f, 101g	\$ 10,660.35
Phase 3		
Sub-Phase 3A	Yokuts Road	\$ 1,837.68
Sub-Phase 3B	Lease Lots 114h, 114i, 114j, 114n, 115, 115a	\$ 10,484.48
Sub-Phase 3C	Lease Lots 114d, 114e, 114e-1, 114e-2, 114f, 114g	\$ 16,488.17
Sub-Phase 3D	Lease Lots 114a, 114b, 114c, 114k, 114l, 114m	\$ 19,902.71

List of Equipment

Type	Detail	Year	Make
TRUCKS	F450 Service Utility Truck - off ins	2003	Ford
	F250 HD	2019	Ford
	F250 HD (Utility)	2019	Ford
	F250 HD	2019	Ford
	F250 HD	2019	Ford
	F250 HD	2019	Ford
	F250 HD	2019	Ford
	F250 HD	2019	Ford
	F350	2019	Ford
	F350	2019	Ford
	F250 HD	2019	Ford
	Dodge Ram Flatbed	2019	Dodge
BUCKET TRUCKS	Bucket Truck Freightliner(70')	2020	Freightliner
	Bucket Truck International. Terex.	2018	International
	Bucket Truck M2-106 Freightliner	2020	Altec Truck Freightliner
	Bucket Truck #1 100' HVUT GTS	2014	Freightliner M2-106 Altec Bucket AM900-E100
	Bucket Truck #2 100' International HVUT GTS	2014	Int'l 7400 Altec Bucket AM900-E100
HEAVY TRUCKS	Kenworth Grapple HVUT AW	2018	Kenworth T880
	Dump Truck-PNO don't drive wo permit	2019	Freightliner
	Kenworth Tractor truck	2013	Kenworth T800
	Peterbilt Grapple HVUT GTS	2020	Peterbilt
	Volvo VNL300 Day Cab Truck Tractor	2015	Volvo
	Chevy Chip Truck	2021	Chevy Silverado 5500

CHIP TRUCKS	Dodge Chip Truck Crew Cab Diesel 4x4	2019	Dodge 5500	
	Ford F550 Chipper Dump	2021	Ford	
	Bandit Intimidator 12XPC	2020	Bandit	
	Bandit Intimidator 12XPC	2020	Bandit	
	Morbark Chipper 15	2017	Morbark 15RX	
	Bandit Intimidator 12XPC	2020	Bandit	
	Morbark Chipper 15	2017	Morbark 15R	
	Bandit Intimidator 15XP	2020	Bandit 15XP	
	Morbark M15RX	2018	Morbark M15RX	
	Bandit Intimidator 15XP	2020	Bandit 15XP	
	Bandit Intimidator 15XP	2020	Bandit 15XP	
	CHIPPERS	Altec DSC6 Portable Chipper	2014	Altec
		Bandit Tracked Chipper	2021	Bandit 19XPC TK
		Morbark Tracked Chipper J7-006 (rental)	2018	M18R Morbark
Toro Dingo TX 1000 Wide Track Mini Skidsteer			Toro Model 22328	
Vermeer Mini Skidsteer with brush grapple & log grapple attachments		2019	Vermeer CTX100	
Toro Dingo TX 1000 Wide Track Mini Skidsteer		Toro Model 22328		

	CAT 289D		CAT 289D
	Toro TX1000 Wide		Toro Model 22328
	Toro TX1000 Wide		Toro Model 22328
	Toro TX1000 Wide		Toro Model 22328
MACHINES	Caterpillar Mini Excavator 308	2014	308E2CRSB
	Caterpillar Skid Steer 289D	2018	Caterpillar
	Caterpillar 299D Track Loader (Skid Steer) See Attachments.	2018	Caterpillar
	Morbark Boxer 320 Compact Track Loader & MMDI Equipment Trailer	2017	Morbark & MMDI
	Morbark Boxer 320 Compact Track Loader & MMDI Equipment Trailer	2017	Morbark & MMDI
	Utility Dump Trailer	2020	Big Tex
	14TL-20BK 16' Tilt Trailer	2020	Big Tex
	Tow Bandit (Arbor Pro BYB Trailer)	2019	Flatbed Trailer
	Felling Trailer (Altec BYB Trailer)	2020	FELTR
	Big Tex Flat Bed	2016	Flatbed w/ ramps
	Water Buffalo (See Attachments)	2017	MultiQuip
	Big Texas Trailer	2021	7OST-13
	CATI Trailer	2021	CATI
	CATI Trailer	2021	CATI
	Summit Trailer	2021	Summit

Trailers	Arrowboard Trailer Sign Unit	2008	Wanco
	Dump Trailer	2018	Texas Pride
	HDME Trailer	2006	HDME
	Lead Trail (Tilt Trailer)	2021	Lead Trail
	Towmaster trailer 31240 GVWR	2006	Towmaster
	Cozad Lowbed	1980	Cozad (Carrier)
	Debris Box Trailer (2020 Peterbilt)	2021	HDME
	Interstate Trailer	2022	Interstate
LIFTS/Specialty Attachments	Cozad Lowboy - Large trailer	1977	Cazad
	MMDI Equipment Trailer (Morbark Boxer 320)	2017	
	MMDI Equipment Trailer (Morbark Boxer 320)	2017	
	Load Trail (5x12 Tilt)	2021	Load Trail
	Towmaster Flatbed Trailer with Ramps	2020	Towmaster Big Tow
	Arbor Pro Spider Lift	2019	CMC 83HD+
	Altec BYB TDA58	2020	TDA58
	Sennebogen 718	2020	718ME
	Sennebogen 728	2021	728ME
	Water Buffalo Flail Mower Attachment	2018	MultiQuip
	Flail Mower Attachment	2020	Eterra
	Fecon Skidsteer Brush Cutter Attachment		Fecon BH74SS
	Fecon Stump Grinder (Attachment)	2020	Fecon SHX33SX-75R-31-H5

Attachments	Rotobec Mini Grapple	2021	Rotobec
	Frontier BB5060 Standard Duty Box Blade (John Deere)	2021	Frontier
	Wolverine 72" Hydraulic Skid Steer Grapple Bucket (att. CAT289 D)		Wolverine
	Skeleton Skid Steer Grapple Bucket		Skeleton
	FAE Masticator head for 728 Sennebogen	2022	FAE
Attachments for 561	180D Brush Cutter (Masticator)	2018	Denis Climaf
	Diamond 72" Rotary Mower	2019	Diamond
	CAT 84" Grapple Rake	2019	CAT
	CAT 84" Bucket	2018	CAT
	CAT Pallet Forks	2018	CAT

New Business

Humboldt Bay Municipal Water District

To: Board of Directors
From: Chris Harris
Date: December 8, 2022
Re: Holiday Worked Policy Revision

Background

As the Board is aware, due to the nature of the work required, District operations run 24-hours/day, 7-days/week. The District has both employees that work typical Monday-Friday schedules as well as employees (Operators) that utilize an "Alternative Work Schedule." The Alternative Work Schedule was proposed by Operations staff in 2007 (Board approved June 2007). This Alternate Work Schedule:

- Provides overlap between shifts
- Provide all Operators with some traditional day shift hours, allowing for interaction with Management as well as Maintenance staff (issues/repairs, etc.).
- Allows time for the scheduling of staff meetings and safety trainings when all/most staff are on-site
- Improves Operators work/life balance with a reduction in shift rotations and an additional day off
- Decreases Operators sleep disruption with fewer shift rotations. Previously operators had both day shifts and swing shifts or day shifts and graveyards shifts each week

Current

Currently, "When a paid Holiday falls on a Saturday, the District will recognize the preceding Friday as the holiday. When a paid holiday falls on a Sunday, the District will recognize the following Monday as the holiday" (Employee Handbook §4001.2). When a holiday falls on a weekend, this resulted in any Operators scheduled for a weekend (12-hour) shift being not compensated for "Holiday Worked Pay" on that particular weekend day worked, but instead being compensated with "Holiday Worked Pay" on either the Friday before or Monday after (if they worked one of those days).

It has been requested that for Operations staff only, "Holiday Worked Pay" be applicable on the *actual calendar day* and not on the shifted/observed District holiday (I.E. Friday or Monday). This request is consistent with the efforts of the Operations staff in the past to improve their work/life balance and have increased time available with family/others while fairly compensating them for their actual holidays worked.

Staff has reviewed this request with both Management and the payroll processing staff to discuss any challenges and/or consequences with this potential policy change. There is no additional cost to the District because the revision involves altering the day the "Holiday Worked Pay" is applicable, not adding additional holidays. Staff also finds (particularly for 2022) it is more equitable to compensate employees required to work Christmas Eve (Saturday, December 24th) and/or Christmas Day (Sunday, December 25th) with "Holiday Worked Pay" on those weekend shifts where they are required to be away from their families on the Holiday, rather than paying "Holiday Worked Pay" on the Friday before or the Monday after as is the current policy.

Staff has included the recommended changes on the attached Employee Handbook §4001.2 Holiday Policy.

Staff Recommendation

Staff recommends Board approval of the revised "§4001.2 Holidays" for the Employee Handbook, effective immediately, to allow for implementation for the upcoming Holidays.

Attachments

Revised Employee Handbook §4001.2

4001.2 Holidays - Full-time employees are entitled to the following eleven paid regular holidays:

1. New Year's Day	January 1 [*]
2. Martin Luther King Day	3 rd Monday in January
3. Presidents' Day	3 rd Monday in February
4. Memorial Day	Last Monday in May
4.5. Juneteenth	June 19 ^{th*}
5.6. Independence Day	July 4 ^{th*}
6.7. Labor Day	1 st Monday in September
7.8. Veterans' Day	November 11 [*]
8.9. Thanksgiving	4 th Thursday in November
9.10. Friday after Thanksgiving	4 th Friday in November
10.11. Christmas Eve	December 24 ^{th*}
11.12. Christmas	December 25 ^{th*}

**Holiday may fall on a weekend*

Regular District operations require staffing 24-hours/day, 7-days/week. Employees (O&M Tech's, working as an Operator) utilizing the "Operations Department Alternative Work Schedule" (effective June 2007) will observe all holiday's based on the actual calendar day. Any District employee that works a regularly scheduled operations shift on a holiday listed above, regardless of the day of the week the holiday falls on, will receive one hour "Holiday Worked Pay" for each hour actually worked in addition to their regular pay. "Holiday Worked Pay" is equivalent to the employee's regular hourly rate (§2011.2).

Should If a paid holiday fall on your the employee's regular day off, your the employee's Floating Holiday Bank balance will be increased by 8 hours. Floating Holiday banked hours are *always* use/loose, (cannot be accrued or cashed in, see 4001.3 for details) with the exception of additions made for the Thanksgiving, Friday after Thanksgiving, Christmas Eve, or Christmas Day holidays. Floating Holiday Bank hours granted for either of those two holidays will expire February 28th of the following year.

*For District employees regularly scheduled to work Monday through Friday (typically Admin, Maintenance, and Management), ~~W~~ when a paid holiday falls on a Saturday, the District will recognize the preceding Friday as the paid holiday (day off, with pay) in lieu of the Saturday holiday. When a paid holiday falls on a Sunday, the District will recognize the following Monday as the paid holiday (day off, with pay) in lieu of the Sunday holiday. In these situations, if an employee is called in (emergency) on their "shifted" holiday, that employee will receive one hour "Holiday Worked Pay" for each hour worked in addition to their regular pay (two-hour minimum, §2011.4). In these

situations, if an employee is called in (emergency) on the Saturday/Sunday, that employee will receive overtime/double-time pay as applicable, but will not be eligible for "Holiday Worked Pay" on these days.

At no time may Employees receive compensation for more Holiday's than approved by the Board.

~~Should a paid holiday fall on your regular day off, your Floating Holiday Bank balance will be increased by 8 hours. Floating Holiday banked hours are *always* use/lose, (cannot be accrued or cashed in, see 4001.3 for details) with the exception of additions made for the Thanksgiving, Friday after Thanksgiving, Christmas Eve, or Christmas Day holidays. Floating Holiday Bank hours granted for either of those two holidays will expire February 28th of the following year.~~

Resolution No. 2022-10
Recognizing and Honoring the Outstanding Service and Achievements of
William (Bill) Wardrip

WHEREAS Bill Wardrip has faithfully served the HUMBOLDT BAY MUNICIPAL WATER DISTRICT beginning August 1st, 2002 as an Operations and Maintenance Technician; and

WHEREAS Bill will retire from the District on December 15th, 2022; and

WHEREAS during 20 years and 4 months of service, Bill has performed his duties efficiently, effectively, in the best interests of the District, and always with a good sense of humor; and

WHEREAS Bill's service was distinguished by quality work and high professional standards, and attained the California State Water Resources Control Board's Drinking Water Treatment & Distribution System Operators Certifications at levels T4 and D3; and

WHEREAS Bill has been a fine example of a water treatment plant operator with an interest in doing his job well and producing excellent water in service to the community at large;; and

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

WHEREAS an operator of high skill, Bill has been keen on producing high-quality water under conditions both mundane and challenging, a prognosticator of pumping, a crackerjack of coagulation, a fundamentalist of filtration, a surveyor of sludge, inquisitive and intrigued, by water chemistry, partial to particle counting, with a tenacity about turbidity; and

WHEREAS Bill has been a man of amazing affability, bountiful bonhomie, invariable jocularity, and prodigious pleasantness. He has regularly regaled his coworkers with rousing reports of epic excursions, yammered yarns of escapades and exploits, telling tales both tall and small, always able to amaze, astonish, boggle, and flabbergast; and

WHEREAS Bill has been a skilled traveler on two wheels with a verve for adventures, a passion for passing, delighting in seeing new sights and vast vistas, and ever the explorer; and

WHEREAS Bill has distinctly benefited the District with his skill of motor alignment, being a man level on the level, a savant of shims, a custodian of couplings, a deployer of dial indicators, and a vanquisher of vibration; 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 Bill Wardrip, on behalf of the District, the staff, and other close associates, its genuine appreciation for dedicated service performed during his tenure with the District.

PASSED, APPROVED, AND ADOPTED this 8th day of December, 2022.

Attest:

Sheri Woo, President

Neal Latt, Vice-President

J. Bruce Rupp, Secretary/Treasurer

David Lindberg, Director

Michelle Fuller, Director

John Friedenbach, General Manager

Dale Davidsen, Superintendent

DOWNEY BRAND

Kathryn L. Oehlschlager
koehlschlager@downeybrand.com
415.848.4820 Direct
415.848.4801 Fax

Downey Brand LLP
455 Market Street, Suite 1500
San Francisco, CA 94105
415.848.4800 Main
downeybrand.com

November 9, 2022

Via E-Mail

John Friedenbach
General Manager
Humboldt Bay Municipal Water District
friedenbach@hbmwd.com

Re: Request for Consent and Waiver of Conflicts of Interest

Dear John:

Downey Brand currently represents the Humboldt Bay Municipal Water District ("HBMWD") on discrete matters related to water rights and dam operations on the Mad River and on permitting for improvements to District pipelines and other infrastructure. Most recently, HBMWD retained Downey Brand to advise on permitting the repair, maintenance, relocation, or replacement of certain sections of a six-mile water pipeline in the Coastal Zone on the Samoa Peninsula, and engage in litigation that could become necessary to secure the rights to undertake the Samoa Peninsula pipeline work (the "Samoa Pipeline Matter"). These existing matters are referred to herein as the "HBMWD Matters."

As we have discussed, Downey Brand has represented the County of Humboldt ("County") with regard to a threatened citizen suit under the Clean Water Act ("CWA"), liability and recovery under the Resource Conservation and Recovery Act ("RCRA"), Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"), and related contract law, as well as related environmental compliance issues arising from localized groundwater contamination. The County recently engaged Downey Brand for counseling and advice related to the County's administration of groundwater in the Lower Eel River Valley under the common law public trust doctrine, as well as in defense of a petition for writ of mandate filed by the Friends of the Eel River (Humboldt County Superior Court Case No. CV2201593). Specifically, Petitioner Friends of the Eel River is seeking to force Humboldt to implement restrictions on groundwater pumping in the Lower Eel River Valley under the auspices of the common law public trust doctrine. These matters are unrelated to Downey Brand's representation of the HBMWD in the HBMWD Matters. These matters are referred to herein as the "County Matters."

POTENTIAL CONFLICTS

We do not believe that our representation of HBMWD in connection with the above matters presently involves an actual conflict of interest with the County. However, such representation may involve future conflicts, particularly if HBMWD requires land use or other permits from the County for the Samoa Pipeline Project or the County otherwise objects to the Samoa Pipeline

November 9, 2022

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Project. As we have discussed, California law governing legal ethics prohibits Downey from representing one client adversely to another current client, absent the informed written consent of both clients. This is the case even if the representations are not related. See Cal. Rules of Prof'l Conduct 1.7(a). Accordingly, the following is to address potential future conflicts of interest that may arise from Downey Brand's simultaneous representation of HBMWD and the County.

REASONABLY FORESEEABLE AND ADVERSE CONSEQUENCES

Theoretically, the following foreseeable and adverse consequences to HBMWD could result from Downey Brand's simultaneous representation of HBMWD in the HBMWD Matters and the County in the County Matters, as well as from the other potential conflicts described herein.

A. Duty of Loyalty

Attorneys have a duty of loyalty requiring them to do their professional best to serve each client they represent. This standard requires our attorneys to pursue each client's position(s) vigorously, which may require attorneys to take advantage of an opposing party's weaknesses, if they are known and if it is ethical to do so. Thus, when we represent a client in a matter involving another client, either or both clients might be concerned that we could favor one or another client and, as a result, fail to press the one client's interests as vigorously as possible in order to gain favor with the other client. While based on what is currently known and knowable, we do not believe this result would occur, such a result is at least theoretically possible. Our representation of the County should not lessen our representation of the HBMWD in the HBMWD Matters. Nonetheless, it is important to disclose the possibility of these conflicts and consequences to HBMWD. Further, should a conflict under the duty of loyalty arise in the future, we would raise the issue with HBMWD at that time to determine whether the conflict waiver may continue in place.

At this time, we believe that we are able to provide competent and diligent representation to both HBMWD and the County, but if at any time we do not feel that we are able to do so, we may need to withdraw from our representation of one or both clients.

B. Client Communication and the Duty of Confidentiality

California attorneys also have two duties that may conflict when they represent one client against another who is a client in the same or separate matter or that have potentially or actually conflicting positions: First, under the duty of confidentiality, attorneys must guard client confidences and secrets at every peril to themselves. Second, attorneys must keep their clients reasonably informed about significant developments related to their clients' representation. Thus, under the duty of confidentiality, we are not allowed to reveal to HBMWD any confidences we receive from the County, and conversely, we also are not allowed to reveal to other clients any confidences or secrets we obtain from HBMWD. At the same time, if we possess any such confidences or secrets that constitute or relate to significant developments in a client's representation, we would have a duty to disclose those confidences and secrets to that client (either HBMWD, or the County, as the case may be).

November 9, 2022

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Thus, for us to represent both HBMWD and the County, each party must waive the conflict posed by the collision of these two rules. Specifically, HBMWD and the County must each waive any right each party might otherwise have for us to reveal to one the confidences or secrets of the other, or to sue such confidences or secrets of the other to HBMWD's benefit.

We note, however, that we do not think in reality this conflict will arise, since the attorneys representing HBMWD are not the same attorneys who represent the County with the result that it is unlikely either set of attorneys will learn confidences and secrets that would be significant to the matter being handled by the other set of attorneys. Again, however, it is important that we disclose these possible conflicts to HBMWD. The most obvious foreseeable adverse consequence related to such a waiver is that, even if attorneys representing HBMWD possess confidences and secrets of the other clients that may be helpful in HBMWD's representation, they will not reveal to HBMWD or use such confidences or secrets.

By signing below, HBMWD acknowledges that potential consequence, and waives any right HBMWD might otherwise have for us to reveal to HBMWD the confidences or secrets of the County where applicable to HBMWD, or to use such confidences or secrets of the County to HBMWD's benefit.

C. Other Foreseeable and Adverse Consequences

We also note that in theory there could be other adverse consequences to HBMWD from this representation that we cannot now reasonably foresee. Please be aware that if litigation or a direct and unwaivable conflict arises between HBMWD and the County, we may be unable to represent either party, and would have to refer our clients or other parties to another law firm. Again, we do not think this will occur, but it is theoretically possible.

D. Ethical Wall

In agreeing to waive this conflict, we have agreed to construct an ethics wall on the Samoa Pipeline Matter and County Matters. This ethics wall will assure that there is separation between the legal teams representing HBMWD and the County and that they do not communicate with one another regarding these two representations, even though they are unrelated. A memorandum establishing and describing this ethics wall be circulated to all personnel at the firm, and will be re-circulated periodically thereafter to remind all personnel of the existence of and importance of observing the ethics wall.

CONCLUSION

If HBMWD would like to discuss this matter further, we are available to do so. Also, if HBMWD wishes to discuss this waiver with an independent attorney at another firm prior to signing this letter or waiving any conflicts, we encourage HBMWD to do so.

If HBMWD agrees to waive the conflicts described above, please so signify by executing one of the enclosed duplicates of this letter below and returning it to me. Please do not hesitate to call me if HBMWD has any questions or comments regarding the above issues.

November 9, 2022
Page 4

Sincerely,

DOWNEY BRAND LLP



Kathryn L. Oehlschlager

AGREED AND ACCEPTED

I have read the foregoing letter concerning the conflicts and potential conflicts associated with Downey Brand LLP's representation of the County of Humboldt regarding the County Matters. I am authorized to waive such conflicts on behalf of the Humboldt Bay Municipal Water District and, after having the opportunity to consult with independent counsel, the District hereby waives any and all conflicts that may arise from this representation, as set forth in the foregoing letter.

Dated: November ____, 2022

John Friedenbach

1833380v1

Financial

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
STATEMENT OF FUND BALANCES - PAGE 1 OF 2

<u>BANK ACCOUNT BALANCES AT MONTH-END</u>	November 30, 2022	November 30, 2021
GENERAL ACCOUNTS		
1. US Bank - General Account	3,823,153.94	3,743,036.71
2. US Bank - Xpress BillPay/Electronic Payments Account	10,260.55	3,461.58
<i>Subtotal</i>	3,833,414.49	3,746,498.29
INVESTMENT & INTEREST BEARING ACCOUNTS		
3. US Bank - DWR/SRF Money Markey Acct	303,417.57	303,377.73
4. US Bank - DWR/SRF Reserve CD Account	547,336.94	547,329.73
5. US Bank - PARS Investment Account	888,766.77	1,059,945.78
<i>Contributions = \$800,000 Earnings = \$88,767</i>		
6. L. A. I. F Account - MSRA Reserve Account	447,094.05	444,139.37
7. CalTRUST - Restricted Inv. Account (Medium Term)	1,329,638.18	1,329,638.18
8. CalTRUST - Unrestricted Inv. Account (Medium Term)	347,384.56	414,913.42
9. CalTRUST - DWFP Reserve Account (FedFund)	243,573.43	240,712.64
10. CalTRUST - ReMat Account (LEAF Fund)	1,158,054.64	853,711.80
11. CalTRUST - General Reserve Account (Short-Term)	2,383,833.35	2,382,192.13
<i>Total CalTRUST Accounts</i>	<i>5,462,484.16</i>	<i>5,221,168.17</i>
12. Humboldt County - SRF Loan Payment Account	280,861.90	98,416.18
13. Humboldt County - 1% Tax Account	(18,048.38)	-
14. Principle Investment Account	47,889.09	36,621.72
<i>Subtotal</i>	7,959,802.10	7,710,998.68
OTHER ACCOUNTS		
15. ReMat Deposit - Mellon Bank	27,000.00	27,000.00
16. Cash on Hand	650.00	650.00
<i>Subtotal</i>	27,650.00	27,650.00
TOTAL CASH	11,820,866.59	11,485,146.97

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
STATEMENT OF FUND BALANCES - PAGE 2 OF 2



FUND BALANCES AT MONTH-END

November 30, 2022

November 30, 2021

RESTRICTED FUNDS - ENCUMBERED

1. Prior-Year Price Factor 2 Rebate	(16,986.85)	(2,093.60)
2. Prior-Year Restricted AP Encumbrances	(410,672.00)	(347,059.00)
3. Advanced Charges - 12Kv Relocation	-	(821,879.67)
4. Advanced Charges - 3x Tank Seismic Retrofit	(1,256,440.67)	(1,056,440.67)
5. Advanced Charges - Cathodic Protection Project	(124,999.96)	(110,416.65)
6. Advanced Charges - Collector 2 Rehabilitation	(1,319,299.00)	(1,210,004.00)
7. Advanced Charges - On-Site Generation of Chlorine	(1,077,375.69)	(818,612.60)
8. Advanced Charges - Redundant Pipeline	(315,003.96)	(181,670.65)
9. Advanced Charges - TRF Emergency Generator	(375,000.00)	(331,250.00)
10. 3AC Collected Funds - TRF Emergency Generator	(312,858.62)	(216,660.06)
11. Advanced Funding - Community Power Resiliency	-	(215,000.00)
12. Advanced Funding - FEMA, Shoreline Debris Removal	(97,941.60)	-
13. Advanced Funding - August Complex-Ruth Paving	(112,456.22)	-
14. Advanced Charges - Assist. Spillway Seismic Grant	(23,333.32)	(10,416.65)
15. Advanced Funding - Eureka Cyber Security	(19,597.72)	-
16. Advanced Charges - Essex Facility Expansion	(105,400.00)	-
17. Advanced Charges - Capital Financing/Debt Service	(148,683.35)	-
<i>Subtotal</i>	(5,716,048.96)	(5,321,503.55)

RESTRICTED FUNDS - OTHER

18. 1% Tax Credit to Muni's	18,048.38	-
19. DWR Reserve for SRF Payment	(303,417.57)	(303,377.73)
20. DWR Reserve for SRF Loan	(547,336.94)	(547,336.94)
21. Pension Trust Reserves	(888,766.77)	(1,059,945.78)
22. ReMat Deposit	(27,000.00)	(27,000.00)
23. HB Retail Capital Replacement Reserves	(147,283.43)	(97,719.63)
<i>Subtotal</i>	(1,895,756.33)	(2,035,380.08)

UNRESTRICTED FUNDS

BOARD RESTRICTED

24. MSRA Reserves	(447,094.05)	(444,139.37)
25. DWFP Reserves	(243,573.43)	(240,712.64)
26. ReMat Reserves	(1,158,054.64)	(853,711.80)
27. Paik-Nicely Development	(4,158.00)	(4,158.00)
28. Principle Investment Reserves	(47,889.09)	(36,621.72)
29. Northern Mainline Extension Study Prepayment	56.40	(3,464.73)
<i>Subtotal</i>	(1,900,712.81)	(1,582,808.26)

UNRESTRICTED RESERVES

30. Accumulation for SRF Payment	(280,861.90)	(98,416.18)
31. Accumulation for Ranney/Techite Payment	-	51,272.66
32. General Fund Reserves	(2,027,486.59)	(2,503,944.00)
<i>Subtotal</i>	(2,308,348.49)	(2,545,455.08)

TOTAL NET POSITION	(11,820,866.59)	(11,485,146.97)
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HUMBOLDT BAY MUNICIPAL WATER DISTRICT
 REVENUE REPORT
 November 30, 2022

A. REVENUE RETURNED TO CUSTOMERS VIA PF2

	MTD RECEIPTS	YTD RECEIPTS	PRIOR YEAR	BUDGET	% OF BUDGET
1. Humboldt Bay Retail Water Revenue	26,281	132,936	128,701	375,000	35%
General Revenue					
Interest	0	0	0	0	0%
FCSD Contract (Maint. & Operations)	0	73,156	112,854	225,000	33%
Power Sales (Net ReMat)	4,529	29,244	25,017	125,000	23%
Tax Receipts (1% Taxes)	0	0	0	975,000	0%
2. Miscellaneous Revenue*	1,006	39,162	0	50,000	78%
<i>*Detail on following page</i>					
TOTAL PF2 REVENUE CREDITS	31,815	274,498	266,573	1,750,000	16%

B. DISTRICT REVENUE

	MTD RECEIPTS	YTD RECEIPTS	PRIOR YEAR	BUDGET	% OF BUDGET
3. Industrial Water Revenue					
Harbor District	0	200	207	0	0
<i>Subtotal Industrial Water Revenue</i>	0	200	207	0	0
4. Municipal Water Revenue					
City of Arcata	119,172	578,948	576,595	1,382,827	42%
City of Blue Lake	15,722	76,819	77,725	187,624	41%
City of Eureka	277,272	1,357,412	1,341,384	3,264,015	42%
Fieldbrook CSD	0	58,453	75,148	184,279	32%
Humboldt CSD	84,437	418,126	425,379	1,029,609	41%
Manila CSD	7,008	33,492	32,107	78,430	43%
McKinleyville CSD	97,630	474,656	470,396	1,131,105	42%
<i>Subtotal Municipal Water Revenue</i>	601,240	2,997,904	2,998,733	7,257,889	41%
TOTAL INDUSTRIAL & WHOLESALE REVENUE	601,240	2,998,103	2,998,940	7,257,889	41%
5. Power Sales					
Power Sales (ReMat Revenue)	10,236	59,683	53,377	300,000	20%
Interest (ReMat Revenue)	0	0	0	0	
TOTAL REMAT REVENUE	10,236	59,683	53,377	300,000	20%
6. Other Revenue and Grant Reimbursement					
HB Retail Capital Replacement Rev.	3,629	17,069	18,654		
FCSD Contract (Admin & Overhead)	0	41,699	44,104		
FEMA/CalOES Grant Revenue	0	320,048	37,036		
SWRCB In-Stream Flow Grant Revenue	0	0	13,103		
Ouagga Grant (Pass-Through)	0	0	0		
Misc. Grant Revenue	0	986	986		
August Complex Fire Recovery	0	5,637	0		
Interest - Muni PF2 Retained	9	2,387	662		
Net Increase/(Decrease) Investment Accounts	48,799	(40,773)	8,637		
TOTAL OTHER/GRANT REVENUE	52,437	347,053	123,182		
GRAND TOTAL REVENUE	695,729	3,679,337	3,442,071	9,307,889	40%

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
 MISCELLANEOUS REVENUE - DETAIL REPORT
 November 30, 2022



B. MISCELLANEOUS RECEIPTS (RETURNED TO CUSTOMERS VIA PF2)

	MTD RECEIPTS	YTD RECEIPTS
<u>Miscellaneous Revenue</u>		
Dividend - Principal Life	-	684
Fees - Park Use	-	2,350
Rebate - CALCard	-	612
Refund - Diesel Fuel Tax	-	43
Refunds - Miscellaneous	-	6,588
Reimb - Blue Lake SCADA/Internet Monthly Fees	51	255
Reimb. - Copies & Postage	22	56
Reimb. - Gas	-	-
Reimb. - Misc. Employee	-	41
Reimb. - Telephone	-	-
UB - Water Processing Fees	60	150
UB - Hydrant Rental Deposit/Use	593	2,498
Sale of Scrap Metal/Equipment/Gravel	-	20,010
State Water Arrearages Administration Rev.	-	-
ACWA/JPIA HR LaBounty Safety Award	-	-
<u>Ruth Area</u>		
Lease - Don Bridge	-	-
Rent - Ruth Cabin	280	1,520
August Complex Wildfire FEMA Reimbursement	-	4,257
Ruth Annual Lessee Water Fees	-	100
TOTAL MISCELLANEOUS REVENUE	1,006	39,162

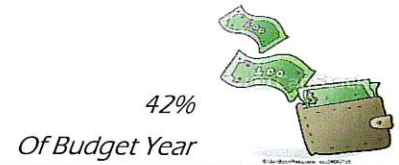
HUMBOLDT BAY MUNICIPAL WATER DISTRICT
 ALL - MONTHLY EXPENDITURE REPORT - PAGE 1 OF 3
 November 30, 2022



SALARY AND EMPLOYEE BENEFIT EXPENDITURES (S. E. B.)

	Month-to-Date	Year-to-Date	Prior Year	Budget	% of Budget
Compensation					
1. Wages - Regular	201,318.51	970,222.06	916,316.09	2,619,326	43%
1a. COVID Essential Service Pay*	-	-	(37,077.76)	-	
2. Wages - Sick	14,044.92	44,653.59	30,261.48		
3. Wages - Vacation	16,998.80	104,435.96	81,942.19		
<i>Subtotal</i>	<i>232,362.23</i>	<i>1,119,311.61</i>	<i>991,442.00</i>	<i>2,619,326</i>	<i>43%</i>
4. Wages - Overtime	788.87	5,372.23	4,142.67	15,000	
5. Wages - Holiday (Worked)	1,054.31	2,899.98	2,788.76	15,850	
<i>Subtotal</i>	<i>1,843.18</i>	<i>8,272.21</i>	<i>6,931.43</i>	<i>30,850</i>	<i>27%</i>
6. Wages - Part-Time	4,257.41	22,036.96	6,165.79	114,455	19%
7. Wages - Shift Differential	966.72	4,768.89	4,339.12	11,000	43%
8. Wages - Standby	8,166.18	37,929.46	35,387.72	88,000	43%
9. Director Compensation	1,600.00	11,040.00	9,920.00	26,000	42%
10. Secretarial Fees	262.50	1,312.50	1,312.50	3,200	41%
11. Payroll Tax Expenses	18,425.87	89,773.92	82,450.09	222,144	40%
11a. COVID Ess. P/R Tax*	-	-	(2,836.45)	-	
<i>Subtotal</i>	<i>33,678.68</i>	<i>166,861.73</i>	<i>139,575.22</i>	<i>464,799</i>	<i>36%</i>
Employee Benefits					
12. Health, Life, & LTD Ins.	56,867.06	285,536.34	289,420.12	749,711	38%
13. Air Medical Insurance	65.00	1,885.00	1,954.00	1,885	100%
14. Retiree Medical Insurance	9,259.16	46,295.80	55,960.49	91,200	51%
14a. Retiree Medical Reimb.	(2,010.82)	(13,830.06)	(32,177.00)		
15. Employee Dental Insurance	2,974.48	14,901.64	14,209.91	41,261	36%
16. Employee Vision Insurance	649.60	3,229.44	3,023.01	7,573	43%
17. Employee EAP	83.30	414.31	387.67	1,116	37%
18. 457b District Contribution	2,900.00	10,969.04	13,325.00	31,800	34%
19. CalPERS Expenses	31,076.45	441,831.34	385,012.90	570,447	77%
20. Workers Comp Insurance	-	61,617.70	49,808.17	137,181	45%
<i>Subtotal</i>	<i>101,864.23</i>	<i>852,850.55</i>	<i>780,924.27</i>	<i>1,632,174</i>	<i>52%</i>
TOTAL S.E.B	369,748.32	2,147,296.10	1,918,872.92	4,747,149	45%

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
MONTHLY EXPENDITURE REPORT - PAGE 2 OF 3
November 30, 2022



SERVICE & SUPPLY EXPENDITURES (S & S)

	Month-to-Date	Year-to-Date	Prior Year	Budget	% of Budget
<i>Operations & Maintenance</i>					
1. Auto Maintenance	5,836.08	22,138.68	22,457.86	39,200	56%
2. Engineering	1,961.04	28,316.47	16,356.25	75,000	38%
3. Lab Expenses	1,175.00	9,925.00	4,283.00	13,000	76%
4. Maintenance & Repairs					
General	5,671.93	18,743.37	14,089.20	47,000	40%
TRF	-	8,302.37	7,229.68	17,000	49%
<i>Subtotal</i>	<i>5,671.93</i>	<i>27,045.74</i>	<i>21,318.88</i>	<i>64,000</i>	<i>42%</i>
5. Materials & Supplies					
General	3,388.92	25,156.82	26,212.25	42,000	60%
TRF	-	9,283.96	13,742.98	35,000	27%
<i>Subtotal</i>	<i>3,388.92</i>	<i>34,440.78</i>	<i>39,955.23</i>	<i>77,000</i>	<i>45%</i>
6. Radio Maintenance	565.76	3,016.30	2,769.50	8,500	35%
7. Ruth Lake License	-	-	1,500.00	1,500	0%
8. Safety Equip./Training					
General	702.65	6,883.66	8,672.74	22,000	31%
TRF	-	144.00	377.98	2,000	7%
<i>Subtotal</i>	<i>702.65</i>	<i>7,027.66</i>	<i>9,050.72</i>	<i>24,000</i>	<i>29%</i>
9. Tools & Equipment	-	976.63	2,163.19	5,000	20%
10. USGS Meter Station	-	8,220.00	-	9,000	91%
<i>Operations Subtotal</i>	<i>19,301.38</i>	<i>141,107.26</i>	<i>119,854.63</i>	<i>316,200</i>	<i>45%</i>

General & Administration

11. Accounting Services	275.00	24,215.00	10,092.50	29,000	84%
12. Bad Debt Expense	-	-	-	-	0
13. Dues & Subscriptions	255.00	30,391.95	36,034.98	38,000	80%
14. IT & Software Maintenance	2,659.32	32,113.92	11,048.16	33,000	97%
15. Insurance	-	107,309.77	85,684.62	111,000	97%
16. Internet	871.74	4,582.91	4,803.34	10,000	46%
17. Legal Services	8,923.00	10,829.50	8,475.00	35,000	31%
18. Miscellaneous	-	4,355.28	1,529.74	10,000	44%
19. Office Building Maint.	2,026.13	10,002.65	5,960.85	15,000	67%
20. Office Expense	3,381.80	15,780.07	15,028.34	40,000	39%
21. Professional Services	-	4,208.98	4,246.00	20,000	21%
22. Property Tax	2,764.00	2,764.00	2,006.00	2,000	138%

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
MONTHLY EXPENDITURE REPORT - PAGE 3 OF 3
November 30, 2022

42%
Of Budget Year



SERVICE & SUPPLY EXPENDITURES (con't)

	Month-to-Date	Year-to-Date	Prior Year	Budget	% of Budget
23. Regulatory Agency Fees	-	5,729.28	78,758.32	190,500	3%
24. Ruth Lake Programs	-	-	-	5,000	0%
25. Safety Apparel	1,428.06	2,647.49	(31.00)	3,000	88%
26. Technical Training	-	101.36	1,529.36	14,000	1%
27. Telephone	1,226.25	6,635.88	14,666.38	40,000	17%
28. Travel & Conference	1,112.05	5,232.72	1,873.92	22,000	24%
<i>Gen. & Admin. Subtotal</i>	<i>24,922.35</i>	<i>266,900.76</i>	<i>281,706.51</i>	<i>617,500</i>	<i>43%</i>
TOTAL SERVICE & SUPPLY	44,223.73	408,008.02	401,561.14	933,700.34	44%

Power

29. Essex - PG & E	354,887.42	354,887.42	365,642.72		
30. 2Mw Generator Fuel	-	8,561.05	2,274.57		
<i>Subtotal Essex Pumping</i>	<i>354,887.42</i>	<i>363,448.47</i>	<i>367,917.29</i>		
31. All other PG & E	5,332.86	25,831.27	32,377.72		
<i>Subtotal All Power</i>	<i>360,220.28</i>	<i>389,279.74</i>	<i>400,295.01</i>	<i>907,000</i>	<i>43%</i>
Total Service and Supplies incl. Power	404,444.01	797,287.76	801,856.15	1,840,700	43%

PROJECTS, FIXED ASSETS & CONSULTING SERVICES

	Month-to-Date	Year-to-Date	Budget	% of Budget
	126,705.00	719,690.00	19,840,575	4%

GRAND TOTAL EXPENSES	900,897.33	3,664,273.86	2,720,729.07	26,428,424	14%
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32. Debt Service - SRF Loan	-	-	-	547,337	0%
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TOTAL EXPENSES WITH DEBT SERVICE

	902,414.03	3,673,129.00	2,725,515.23	26,975,761.30	
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OTHER EXPENSES

33. ReMat Consultant Exp.	1,516.70	8,855.14	4,786.16		
34. Capital Replacement Exp.	-	-	-		

HUMBOLDT BAY MUNICIPAL WATER DISTRICT PROJECT PROGRESS REPORT

November 30, 2022

42% Of Budget Year



A. CAPITAL PROJECTS

	MTD	YTD		% OF
GRANT FUNDED CAPITAL PROJECTS	EXPENSES	TOTAL	BUDGET	BUDGET
1 Grant - 12kV Switchgear Relocation <i>(\$3.4M - FEMA, Approved)</i>	2,078	184,685	723,991	26%
2 Grant - Collector 2 Rehabilitation <i>(Est. \$1.6M - NCRP Prop 1 \$600k, Approved)</i>	0	0	1,600,000	0%
3 Grant - 3x Tank Seismic Retro <i>(Est. \$5.7M - FEMA, Phase 1 Approved)</i>	142	142	5,435,506	0%
4 Grant - Collector Mainline Redundancy Pipeline <i>(Treatment/Base Facility Project, Est. \$3.1M - FEMA, Approved)</i>	0	0	3,100,000	0%
5 Grant - TRF Generator <i>(Treatment Facility Project, Est. \$1.9M - FEMA, In Process)</i>	0	284	0	0%
5A Grant - Adv. Assistance Spillway Seismic	47	190	0	0%
TOTAL GRANT FUNDED CAPITAL PROJECTS	2,268	185,301	10,859,497	2%

NON-GRANT FUNDED CAPITAL PROJECTS

6 Cathodic Protection Project	0	0	0	0
7 Underground Power to Collector 2 - Phase 3	0	0	250,000	0%
8 Mainline Valve Replacement Program	0	0	60,000	0%
9 Retaining Wall for Valve Access <i>(Treatment Facility Project)</i>	0	0	40,000	0%
10 Main Office Roof Replacement	157	460	69,000	1%
TOTAL NON-GRANT FUNDED CAPITAL PROJECTS	157	460	419,000	0%

B. EQUIPMENT AND FIXED ASSET PROJECTS

	MTD	YTD		% OF
	EXPENSES	TOTAL	BUDGET	BUDGET
11 FY23 Replace ESSEX Administrative Computers	0	0	7,000	0%
12 FY23 Replace Control Computers	0	0	5,250	0%
13 Electrical PPE	0	1,055	6,000	18%
14 Essex Stand Alone Security and Fire Monitoring	0	0	1,750	0%
15 PBX Upgrade	0	0	3,000	0%
16 Upgrade Admin Routers	3,403	3,403	4,000	85%
18 Replace Bucket Truck (Unit 4)	170,128	170,128	127,000	134%
19 Electrical Shop Offices	0	0	31,750	0%
20 Fleet Back-Up Cameras	0	1,190	2,250	53%
21 Upgrade Admin Switches	0	0	10,500	0%
22 Handheld Lights	0	3,158	3,500	90%
23 Ergonomic Mop Basins <i>(Treatment Facility Project)</i>	0	0	2,000	0%
24 TRF EOC Office Furniture <i>(Treatment Facility Project)</i>	951	3,201	3,750	85%

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
PROJECT PROGRESS REPORT - PAGE 2 OF 5
November 30, 2022

42% Of Budget Year

**B. EQUIPMENT AND FIXED ASSET PROJECTS (con't)**

	MTD EXPENSES	YTD TOTAL	BUDGET	% OF BUDGET
25 FY22 Replace EUREKA Administrative Computers	1,467	1,467	3,800	39%
26 Hydro Plant PRV Internal Belzona Repairs	0	0	4,750	0%
27 Hydro Plant Neutral Overvoltage Relay	5,794	5,794	14,750	39%
28 Hydro Plant Wicket Gate & HBV Signal Upgrade	0	0	8,500	0%
29 Ruth Fire Response Trailer & Equipment	0	0	3,500	0%
30 Tesla Battery Project - TRF	233	1,164	0	0
30a Articulating Arm for Vac Trailer	0	2,575	0	0
TOTAL EQUIPMENT & FIXED ASSET PROJECTS	181,976	193,134	243,050	79%

C. MAINTENANCE PROJECTS

	MTD EXPENSES	YTD TOTAL	BUDGET	% OF BUDGET
31 FY23 Pipeline Maintenance	1,304	1,693	4,000	42%
32 FY23 12 kV Electric System Maintenance	0	0	4,200	0%
33 FY23 Main Line Meter Flow Calibration	0	0	28,000	0%
34 FY23 Technical Support and Software Updates	0	1,422	31,500	5%
35 FY23 Generator Services	27	113	3,500	3%
36 FY23 Hazard & Diseased Tree Removal	0	0	8,000	0%
37 FY23 Cathodic Protection	85	654	1,500	44%
38 FY23 Maintenance Emergency Repairs	3,861	8,725	50,000	17%
39 FY23 Fleet Paint Repairs	0	3,444	5,000	69%
40 FY23 Power Pole/Line Inspection/Maintenance	0	15,853	17,500	91%
41 Truesdale to Samoa Booster Station Telemetry Radio	0	0	3,750	0%
42 Line Shed Alarm Upgrades	0	0	6,500	0%
43 Right-of-Way Clearing Under Cable Cars	0	0	5,000	0%
44 FY23 TRF Generator Service	0	69	500	14%
<i>(Treatment Facility Project)</i>				
45 FY23 TRF Limatorque Valve Retrofit Supplies	0	0	14,500	0%
<i>(Treatment Facility Project)</i>				
46 TRF Instrumentation Replacement	0	22,772	24,750	92%
<i>(Treatment Facility Project)</i>				
47 TRF Valve Network Upgrade (Phase 1 of 5)	0	0	121,000	0%
<i>(Treatment Facility Project)</i>				
48 TRF Plant Water System	0	0	2,000	0%
<i>(Treatment Facility Project)</i>				
49 FY23 Brush Abatement Ruth Hydro	0	0	6,500	0%
50 FY23 LTO Insurance	0	0	5,000	0%
51 FY23 Spillway Repairs	59	438	10,000	4%
52 Investigate/Repair Flip Bucket/Curtain Drain	0	0	105,000	0%
54 Ruth Security and Fire Control Panel	149	3,976	4,500	88%
55 Fire Disaster Recovery 2020	0	4,394	0	0
56 COVID-19 Pandemic Expenses	0	884	0	

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
PROJECT PROGRESS REPORT - PAGE 3 OF 5
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**C. MAINTENANCE PROJECTS (con't)**

	MTD EXPENSES	YTD TOTAL	BUDGET	% OF BUDGET
57 Load Bank Hydro Plant Generator	0	0	2,000	0%
58 Main Office Parking Lot Sealing and Stripping	0	0	3,000	0%
TOTAL MAINTENANCE PROJECTS	5,485	64,437	467,200	14%

D. PROFESSIONAL & CONSULTING SERVICES

	MTD EXPENSES	YTD TOTAL	BUDGET	% OF BUDGET
59 Prof. Services for New Capital Debt	0	0	0	0
60 FY23 Crane Testing/Certification	0	0	10,000	0%
61 FY23 Chlorine System Maintenance	0	2,638	6,750	39%
62 FY23 Hydro Plant Annual Elec. Maint./Testing	0	0	4,000	0%
63 Above Ground 10,000 Gallon Fuel Tank Testing	0	0	5,400	0%
64 ATS Pro-IT Support	1,430	5,720	19,000	30%
65 FY23 Essex Mad River Cross-Sectional Survey	1,310	6,550	12,000	55%
66 FY23 GHD Review Essex Mad River Cross-Sectional	0	0	5,000	0%
67 FY23 Technical Training	1,261	1,261	27,000	5%
68 FY23 O & M Training	0	0	20,000	0%
69 FY23 Public Education Funds	0	125	5,000	3%
70 TRF Router Multi-Year Support	1,752	1,752	2,000	88%
71 Ruth Router Multi-Year Support	0	1,372	1,000	137%
72 Transformer Testing and Repair	0	0	7,500	0%
73 GIS / FIS Essex Area	0	0	12,000	0%
74 Salary Survey	0	0	15,000	0%
75 FY23 Mad River Regulatory Compliance Assistance	1,230	1,230	50,000	2%
76 FY23 Annual Sect. 115 Pension Trust Contribution	0	0	50,000	0%
77 FY23 Grant Applications Assistance	0	0	20,000	0%
78 Domestic Water for Nordic Aqua Farm	0	0	5,000	0%
79 Engineering Support - On-Site Hypochlorite	0	0	10,000	0%
80 Engineering Study-Replace 15-inch Peninsula Pipe	0	0	38,000	0%
81 Samoa Peninsula Coastal Development Permit	1,048	5,588	31,200	18%
82 Engineering Support for Essex Tesla Battery	0	0	7,500	0%
83 Engineering Support for TRF Tesla Battery Proj	0	0	7,500	0%
<i>(Treatment Facility Project)</i>				
84 Essex Control Building Expansion Plans/Specs	0	0	46,000	0%
86 FY23 FERC DSSMR	0	2	5,000	0%
86 FY23 FERC Chief Dam Safety Engineer	0	0	12,000	0%
87 FY23 Dam Spillway Wall Monument Survey	14,040	14,040	16,000	88%
88 GHD Review of Matthews Dam Spillway Wingwall	0	0	6,500	0%

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
 PROJECT PROGRESS REPORT - PAGE 4 OF 5
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D. PROFESSIONAL & CONSULTING SERVICES (CONT)

	MTD EXPENSES	YTD TOTAL	BUDGET	% OF BUDGET
89 FY23 Spillway Repair, Dam Inspection & Reporting	0	254	5,000	5%
90 DSSMP Update	0	0	10,000	0%
91 Assist Assessments Spillway Drains, Flip Bucket	0	0	20,000	0%
92 GEI Tiltmeter Monitoring	0	0	12,000	0%
TOTAL PROF/CONSULTING SERVICES	22,071	40,533	503,350	8%

E. INDUSTRIAL SYSTEM PROJECTS

93 Maintain Water Supply to Industrial Pump Station 6	0	0	13,250	0%
93A I/W Reservoir Overflow Dissipator Maint/Hardening	13,527	13,527	9,500	142%
TOTAL INDUSTRIAL SYSTEM PROJECTS	13,527	13,527	22,750	59%

F. CARRY-OVER PROJECTS FROM PRIOR YEAR

94 Replace Collector 4 Cable	0	0	2,000	0%
95 Line Shed #8	0	0	10,000	0%
TOTAL CARRYOVER PROJECTS	0	0	12,000	0%

G. ADVANCED CHARGES & DEBIT SERVICE FUNDS COLLECTED

	MTD	YTD	BUDGET	% BUDGET
96 On-Site Generation of Chlorine <i>(\$1.2M - FY23, Treatment Facility Project)</i>	20,833	104,167	250,000	42%
97 Prof. Services for New Capital Debt	13,517	67,583	162,200	42%
TOTAL ADVANCED CHARGES COLLECTED	34,350	171,750	412,200	42%

H. PROJECTS NOT CHARGED TO MUNICIPAL CUSTOMERS

	MTD EXPENSES	YTD TOTAL	BUDGET	% OF BUDGET
98 On-Site Generation of Chlorine <i>(\$1.2M - FY23, Treatment Facility Project)</i>	2,739	41,422	0	0
99 Humboldt Bay Radio Read Meters <i>(Capital Replacement Funds)</i>	0	0	9,500	0%
100 Ruth Paving and Repairs <i>(Non-FEMA August Complex Wildfire Funds Collected)</i>	0	0	112,250	0%
101 Pump Station 6 Gravel Bar Work and Permitting <i>(ReMat Reserves)</i>	0	0	40,000	0%
102 Domestic Water System Cathodic Protection <i>(Collected Advance Charges)</i>	0	7,143	65,000	11%
103 Streambed Flow Enhancement Grant <i>(DWR Grant)</i>	379	6,088	457,755	1%
104 Quagga Grant Expenses <i>(Multiple Grants)</i>	0	46,056	0	

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
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H. PROJECTS NOT CHARGED TO MUNICIPAL CUSTOMERS (con't)

	MTD EXPENSES	YTD TOTAL	BUDGET	% OF BUDGET
105 Forestry Consultant <i>(NCRP Grant)</i>	0	0	14,638	0%
106 Clean-Out Industrial Water Tank <i>(ReMat Reserves)</i>	0	527	100,000	1%
107 CalFire Healthy Forest Grant <i>(CalFire Grant)</i>	0	33,323	5,000,000	1%
108 CalFire Fuels Reduction Program <i>(CalFire Funding)</i>	194	194	500,000	0%
TOTAL NOT CHARGED TO CUSTOMERS	3,311	134,751	6,299,143	2%

PROJECT PROGRESS REPORT SUMMARY OF ALL ACTIVITY

CUSTOMER CHARGES	MTD	YTD	BUDGET	% BUDGET
TOTAL NON-GRANT FUNDED CAPITAL PROJECTS	157	460	419,000	0%
<i>Treatment Facility Portion</i>	0	0		
TOTAL EQUIPMENT & FIXED ASSET PROJECTS	181,976	193,134	243,050	79%
<i>Treatment Facility Portion</i>	951	3,201		
TOTAL MAINTENANCE PROJECTS	5,485	64,437	467,200	14%
<i>Treatment Facility Portion</i>	0	22,840	162,750	
TOTAL PROF/CONSULTING SERVICES	22,071	40,533	503,350	8%
<i>Treatment Facility Portion</i>	0	0	7,500	
TOTAL INDUSTRIAL SYSTEM PROJECTS	13,527	13,527	22,750	59%
TOTAL CARRYOVER PROJECTS	0	0	12,000	0%
<i>Treatment Facility Portion</i>	0	0	0	
TOTAL ADVANCED CHARGES/DEBIT SERVICE	34,350	171,750	412,200	42%
<i>Treatment Facility Portion</i>	\$20,833	\$104,167	\$250,000	
TOTAL CUSTOMER CHARGES	\$257,566	\$483,841	\$2,079,550	23%

NON-CUSTOMER CHARGES (CURRENT FY)	MTD	YTD	BUDGET	% BUDGET
TOTAL GRANT FUNDED CAPITAL PROJECTS	2,268	185,301	10,859,497	2%
TOTAL NON-CUSTOMER CHARGES	3,311	134,751	6,299,143	2%
TOTAL USE OF ENCUMBERED FUNDS	20,650	201,213	611,885	33%
TOTAL NON-CUSTOMER CHARGES	\$26,228	\$521,265	\$17,770,525	3%
GRAND TOTAL PROJECT BUDGET ACTIVITY	\$283,795	\$1,005,106	\$19,850,075	5%

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
ENCUMBERED FUNDS RECONCILIATION REPORT
November 30, 2022



	MTD EXPENSES	YTD TOTAL	AMOUNT ENCUMBERED	REMAINING	
A. CAPITAL PROJECTS					
1E	Fiber Optic Link - Collector 2 (Phase 1)	0	0	28,500	28,500
2E	Power and Fiber Optic Link to Collector 2, Phase 2	0	0	44,000	44,000
3E	Line Shed #8	7,345	7,345	28,600	21,255
4E	Solar at Eureka Main Office	12,396	13,197	29,650	16,453
5E	TRF Line Shed 5 Ramp and Concrete Work	0	0	850	850
6E	Headquarters Remodel	0	542	30,000	29,458
B. EQUIPMENT & FIXED ASSET PROJECTS					
7E	Penstock Ventilation System	0	0	2,525	2,525
8E	Collector Lube Oil Detection System	0	0	3,050	3,050
9E	Replace Unit 9	0	792	17,600	16,808
10E	TRF Chemical Building PLC Module Expansion	0	3,326	2,090	(1,236)
11E	Eureka Office Phone System	0	21,041	14,600	(6,441)
12E	Transformer at Hydro Plant	0	29,371	49,150	19,779
C. MAINTENANCE PROJECTS					
13E	FY22 Brush Abatement Ruth Hydro	0	0	6,500	6,500
14E	Replace Collector 4 Cable	0	0	3,650	3,650
15E	Collector MCC Breaker & Door Switch Replacement	0	77,960	66,125	(11,835)
16E	Collector 1 Interior Painting	11	11	600	589
17E	FY22 Main Line Meter Flow Calibration	0	1,746	2,500	754
18E	Cyber Assessment	0	15,025	19,250	4,225
19E	Power Pole/Line Inspection/Maintenance	0	3,926	3,800	(126)
20E	Upgrade Microsoft Office - Essex	0	0	900	900
21E	Security Fencing Replacement - Essex & Samoa BPS	0	0	47,200	47,200
22E	Lighting Upgrades for Shop/Collectors/Line Sheds	0	0	8,150	8,150
23E	TRF Sludge Bed Gutter Replacement	0	888	8,175	7,287
D. PROFESSIONAL & CONSULTING SERVICES					
24E	404 Permit Assistance	164	164	24,360	24,196
25E	Lease Lots Surveys	0	2,382	25,000	22,618
26E	GIS / FIS Ruth Area, Including Internship	0	0	5,000	5,000
27E	GIS Project at Ruth Lake (USFS)	0	0	7,500	7,500
28E	Ruth Vehicle Abatement	0	6,830	7,000	170
29E	ATS Pro-IT Support	0	1,430	1,430	0

HUMBOLDT BAY MUNICIPAL WATER DISTRICT
 ENCUMBERED FUNDS RECONCILIATION REPORT (con't)
 November 30, 2022



	MTD EXPENSES	YTD TOTAL	AMOUNT ENCUMBERED	REMAINING
D. PROFESSIONAL & CONSULTING SERVICES (con't)				
30E Collector Arc Flash Study Update and Breaker Testi	0	9,529	20,000	10,471
31E Collector 4 Restoration	0	0	5,000	5,000
32E FY22 Crane Operator Re-Certification	0	0	1,000	1,000
33E FY22 Backflow Tester Training	0	0	1,200	1,200
34E Public Education Funds	0	(104)	1,500	1,604
35E Mad River Watershed USFS Lidar	0	0	20,000	20,000
36E Coastal CDP - GHD	733	5,273	18,155	12,882
37E CAISO Meter Inspection Calibration	0	0	4,000	4,000
38E FERC Part 12 - Independent Consultant & Engineer	0	77	42,840	42,763
39E FERC Chief Dam Safety Engineer	0	461	10,435	9,975
ENCUMBERED FUNDS TOTAL	20,650	201,213	611,885	410,672

Humboldt Bay Municipal Water District

--Monthly Expenses by Vendor Detail Report--
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Vendor Name	Date Paid	Description	Amount Paid
101 NETLINK			
101 NETLINK	11/02/2022	Ruth Data Link/Internet	190.00
Total 101 NETLINK:			190.00
ACWA/JPIA			
ACWA/JPIA	11/21/2022	RETIREE MEDICAL	7,975.26
ACWA/JPIA	11/21/2022	COBRA Medical	1,147.86
ACWA/JPIA	11/21/2022	COBRA Dental	98.92
ACWA/JPIA	11/21/2022	COBRA Vision	37.12
Total ACWA/JPIA:			9,259.16
Advanced Security Systems			
Advanced Security Systems	11/16/2022	Inspection for new phone system at Eureka Office	110.00
Advanced Security Systems	11/02/2022	Ruth Dam Fire Alarm	148.50
Advanced Security Systems	11/28/2022	Eureka Office Commercial Fire Monitoring 12/1/22 - 11/30/23	384.00
Total Advanced Security Systems:			642.50
AirGas NCN			
AirGas NCN	11/28/2022	Essex shop supplies	56.57
Total AirGas NCN:			56.57
Alves, Inc			
Alves, Inc	11/28/2022	Gutter Installation on Line Shed 8	2,984.00
Total Alves, Inc:			2,984.00
Angela Smart			
Angela Smart	11/03/2022	Travel Advance - CSDA Conference	333.00
Angela Smart	11/28/2022	Travel - fuel reimbursement	157.22
Total Angela Smart:			490.22
Arcata Fire Prot. District			
Arcata Fire Prot. District	11/28/2022	Fire Assessment FY 22/23	2,764.00
Total Arcata Fire Prot. District:			2,764.00
Arcata Stationers			
Arcata Stationers	11/16/2022	TRF EOC office supplies	179.83
Arcata Stationers	11/28/2022	TRF EOC office furniture	452.53
Arcata Stationers	11/28/2022	TRF EOC office furniture	170.25
Total Arcata Stationers:			802.61
AT & T			
AT & T	11/28/2022	Eureka/Essex Landline	33.97
AT & T	11/28/2022	Arcata/Essex Landline	33.97
AT & T	11/28/2022	Eureka Office/Alarm	62.26
AT & T	11/28/2022	TRF	26.33
AT & T	11/28/2022	Essex office/Modem/Control Alarm System	26.33
AT & T	11/16/2022	Ruth HQ Long Distance	6.47
AT & T	11/16/2022	Eureka Office Long Distance	7.22

Humboldt Bay Municipal Water District

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Vendor Name	Date Paid	Description	Amount Paid
Total AT & T:			196.55
AT&T Advertising Solutions			
AT&T Advertising Solutions	11/28/2022	white page listing	21.00
Total AT&T Advertising Solutions:			21.00
ATS Communications			
ATS Communications	11/28/2022	TRF control system router - Multi year service	1,751.56
ATS Communications	11/28/2022	IT Support for Essex Admin Computers	1,430.00
ATS Communications	11/28/2022	Admin Firewall Upgrade	3,403.19
Total ATS Communications:			6,584.75
C&K Market, Inc			
C&K Market, Inc	11/28/2022	Employee Recognition	18.86
Total C&K Market, Inc:			18.86
Citi Cards			
Citi Cards	11/28/2022	Eureka office supplies	7.31
Total Citi Cards:			7.31
City of Eureka			
City of Eureka	11/07/2022	Eureka office water/sewer	101.64
Total City of Eureka:			101.64
Coastal Business Systems Inc.			
Coastal Business Systems Inc.	11/07/2022	Essex copy/fax machine	256.14
Coastal Business Systems Inc.	11/07/2022	Eureka office copy and fax machine	716.30
Total Coastal Business Systems Inc.:			972.44
Dave Perkins			
Dave Perkins	11/02/2022	Mileage Reimbursement	129.70
Total Dave Perkins:			129.70
Downey Brand Attorneys LLP			
Downey Brand Attorneys LLP	11/18/2022	Legal Fees Oct 2022 - BL Rancheria Water	1,517.00
Downey Brand Attorneys LLP	11/18/2022	Legal Fees Oct 2022 - Instream Flow Investigation	170.00
Downey Brand Attorneys LLP	11/16/2022	Legal Fees Oct 2022 - Samoa Peninsula Coastal Dev	1,048.00
Total Downey Brand Attorneys LLP:			2,735.00
Electrical Reliability Services, Inc			
Electrical Reliability Services, Inc	11/16/2022	Ruth Hydro Neutral Overvoltage replay replacement	5,793.90
Total Electrical Reliability Services, Inc:			5,793.90
Eureka Overhead Door Company, Inc			
Eureka Overhead Door Company, Inc	11/16/2022	4 roll up doors for Line Shed #8	3,960.00

Humboldt Bay Municipal Water District

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Vendor Name	Date Paid	Description	Amount Paid
Total Eureka Overhead Door Company, Inc:			3,960.00
Eureka Rubber Stamp			
Eureka Rubber Stamp	11/28/2022	Eureka office name plate	13.09
Eureka Rubber Stamp	11/28/2022	Signs for Quagga	55.94
Total Eureka Rubber Stamp:			69.03
Express Employment Services			
Express Employment Services	11/02/2022	Temp Exec Assit/Board Secretary thru 10/30/2022	1,483.20
Express Employment Services	11/09/2022	Temp Exec Asst/Board Secretary through 11/1/2022	296.64
Express Employment Services	11/16/2022	Conversion Fee - Exec Asst/Board Sec	2,266.88
Total Express Employment Services:			4,046.72
FEDEX			
FEDEX	11/16/2022	Ship safety video back to JPIA	11.07
Total FEDEX:			11.07
Finney Arnold LLP			
Finney Arnold LLP	11/02/2022	Legal Advocacy - McNamara & Peepe	6,160.00
Total Finney Arnold LLP:			6,160.00
Frontier Communications			
Frontier Communications	11/28/2022	Ruth Hydro/Ruth Dataline	216.91
Frontier Communications	11/28/2022	Ruth HQ	56.04
Total Frontier Communications:			272.95
GHD			
GHD	11/28/2022	12KV Switchgear Replacement - Grant	2,078.00
GHD	11/28/2022	General Engineering - CDP for Samoa Peninsula ROW Phase 1	733.23
GHD	11/28/2022	General Engineering - Eureka	871.41
GHD	11/28/2022	General Engineering - Essex	947.50
GHD	11/28/2022	General Engineering - Instream Flow Grant	208.50
GHD	11/28/2022	General Engineering - Seismic Stability Grant	47.38
GHD	11/28/2022	General Engineering - Ruth	142.13
GHD	11/28/2022	General Engineering - OnSite Chlorine Generation	2,179.26
GHD	11/28/2022	General Engineering - 3x Tank Seismic Retro Grant	142.13
Total GHD:			7,349.54
Global Rental Co., Inc.			
Global Rental Co., Inc.	11/09/2022	2022 Ford F550 Cab and Chassis	170,128.00
Total Global Rental Co., Inc.:			170,128.00
GR Sundberg, Inc			
GR Sundberg, Inc	11/28/2022	Install 12 foot I/W reservoir overflow casing	13,527.49
Total GR Sundberg, Inc:			13,527.49
Harbor Freight Tools			
Harbor Freight Tools	11/07/2022	Net, cords and straps for hauling debris & supplies	50.95

Humboldt Bay Municipal Water District

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Vendor Name	Date Paid	Description	Amount Paid
Total Harbor Freight Tools:			50.95
Health Equity Inc			
Health Equity Inc	11/21/2022	District HSA Contributions- 1 employees	23.68
Health Equity Inc	11/07/2022	HSA Admin Fee 10 employees	32.45
Health Equity Inc	11/07/2022	HSA Admin Fee - 6 employees	17.70
Health Equity Inc	11/01/2022	District HSA Contributions- 1 employees	500.00
Total Health Equity Inc:			573.83
Hensel Hardware			
Hensel Hardware	11/16/2022	Toilet brush for maintenance bathroom	13.01
Hensel Hardware	11/16/2022	Finance Charge	.50
Hensel Hardware	11/16/2022	Hardware purchased for OSG project	5.97
Hensel Hardware	11/28/2022	materials for OSG	81.73
Hensel Hardware	11/28/2022	Collector 1 Painting Project	11.45
Total Hensel Hardware:			112.66
Henwood Associates, Inc			
Henwood Associates, Inc	11/16/2022	Consultant Services Agreement- Sept 2022	758.35
Total Henwood Associates, Inc:			758.35
Humboldt County Treasurer			
Humboldt County Treasurer	11/28/2022	Fund No 3876 Account 800870	45,611.43
Total Humboldt County Treasurer:			45,611.43
Humboldt Fasteners			
Humboldt Fasteners	11/16/2022	Nails for nail gun	206.89
Humboldt Fasteners	11/16/2022	Nail gun rental for line shed 8	10.85
Total Humboldt Fasteners:			217.74
Humboldt Redwood Company, LLC			
Humboldt Redwood Company, LLC	11/28/2022	Power for radios located at Mt Pierce	3.33
Humboldt Redwood Company, LLC	11/09/2022	Mt Pierce Lease site	308.26
Total Humboldt Redwood Company, LLC:			311.59
Hummel Tire & Wheel			
Hummel Tire & Wheel	11/16/2022	New Tires for Unit #3	770.05
Total Hummel Tire & Wheel:			770.05
Industrial Electric			
Industrial Electric	11/16/2022	Collector 4 motor replacement	5.36
Total Industrial Electric:			5.36
J. Bruce Rupp			
J. Bruce Rupp	11/28/2022	Travel expense reimbursement	621.83
Total J. Bruce Rupp:			621.83

Humboldt Bay Municipal Water District

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Vendor Name	Date Paid	Description	Amount Paid
Johnson's Mobile Rentals LLC			
Johnson's Mobile Rentals LLC	11/28/2022	Temporary fence for TRF Tesla Battery Project	232.74
Johnson's Mobile Rentals LLC	11/28/2022	Temporary fence for cathodic testing	85.09
Total Johnson's Mobile Rentals LLC:			317.83
JTN Energy, LLC			
JTN Energy, LLC	11/16/2022	Consultant Services Agreement - Sept 2022	758.35
Total JTN Energy, LLC:			758.35
Kernen Construction			
Kernen Construction	11/28/2022	Asphalt for patching around new transformer pad	396.85
Total Kernen Construction:			396.85
Mario Palmero			
Mario Palmero	11/28/2022	Essex Petty Cash - Ruth Spillway Repairs	58.85
Mario Palmero	11/28/2022	Essex Petty Cash - Maintenance Supplies	4.67
Mario Palmero	11/28/2022	Essex Petty Cash - Maintenance Supplies	39.34
Mario Palmero	11/28/2022	Essex Petty Cash - Safety Meeting	40.94
Mario Palmero	11/28/2022	Essex Petty Cash - Maintenance Supplies	2.17
Total Mario Palmero:			145.97
Maverick J. Cuba			
Maverick J. Cuba	11/07/2022	Eureka Office Cleaning 5/11 - 8/10/22	560.00
Total Maverick J. Cuba:			560.00
Miller Farms Nursery			
Miller Farms Nursery	11/16/2022	Chain saw maintenance & inventory supplies	340.48
Total Miller Farms Nursery:			340.48
Mission Linen			
Mission Linen	11/02/2022	Uniform Rental	138.45
Mission Linen	11/02/2022	Uniform Rental	109.75
Mission Linen	11/02/2022	maintenance supplies	94.48
Mission Linen	11/02/2022	Uniform Rental	138.45
Mission Linen	11/02/2022	Uniform Rental	109.75
Mission Linen	11/02/2022	maintenance supplies	32.12
Total Mission Linen:			623.00
Mitchell, Brisso, Delaney & Vrieze			
Mitchell, Brisso, Delaney & Vrieze	11/07/2022	Legal Services- October 2022	666.50
Mitchell, Brisso, Delaney & Vrieze	11/07/2022	Legal Services- October 2022	579.50
Total Mitchell, Brisso, Delaney & Vrieze:			1,246.00
Motion Industries, Inc			
Motion Industries, Inc	11/28/2022	Motor bearings for chlorine booster pump	121.56
Total Motion Industries, Inc:			121.56

Humboldt Bay Municipal Water District

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Vendor Name	Date Paid	Description	Amount Paid
Napa Auto Parts			
Napa Auto Parts	11/16/2022	Coolant system test strips	27.05
Napa Auto Parts	11/16/2022	Diesel additive	16.26
Napa Auto Parts	11/16/2022	Hardware for OSG	52.03
Napa Auto Parts	11/16/2022	Unit 5 annual service	181.37
Napa Auto Parts	11/16/2022	Oil filter for Unit #5	29.88
Napa Auto Parts	11/28/2022	Six month service on Unit 12	72.78
Total Napa Auto Parts:			379.37
North Coast Laboratories			
North Coast Laboratories	11/16/2022	lab tests - Humboldt Bay Retail	95.00
North Coast Laboratories	11/16/2022	lab tests - Fieldbrook-Glendale CSD	95.00
North Coast Laboratories	11/16/2022	lab tests - Humboldt Bay Retail	285.00
North Coast Laboratories	11/16/2022	lab tests - Humboldt Bay Retail	320.00
North Coast Laboratories	11/16/2022	lab tests - Fieldbrook-Glendale CSD	95.00
North Coast Laboratories	11/16/2022	lab tests - Humboldt Bay Retail	95.00
North Coast Laboratories	11/16/2022	lab tests - Fieldbrook-Glendale CSD	95.00
North Coast Laboratories	11/16/2022	lab tests - Humboldt Bay Retail	95.00
Total North Coast Laboratories:			1,175.00
Northern California Safety Consortium			
Northern California Safety Consortium	11/07/2022	monthly membership fee - Nov 2022	75.00
Total Northern California Safety Consortium:			75.00
Occupational Health Service of Mad River			
Occupational Health Service of Mad River	11/02/2022	DMV physical	236.25
Total Occupational Health Service of Mad River:			236.25
Optimum/Sudden Link			
Optimum/Sudden Link	11/07/2022	Fieldbrook-Glendale CSD Internet	323.61
Optimum/Sudden Link	11/02/2022	Essex internet	231.76
Optimum/Sudden Link	11/02/2022	Essex Phones	72.14
Optimum/Sudden Link	11/02/2022	TRF Internet	25.27
Optimum/Sudden Link	11/02/2022	TRF Internet - Blue Lake SCADA Monitoring	50.55
Optimum/Sudden Link	11/02/2022	TRF Internet - Fieldbrook-Glendale CSD	50.55
Optimum/Sudden Link	11/16/2022	Eureka Internet	208.45
Total Optimum/Sudden Link:			962.33
Pacific Gas & Electric Co.			
Pacific Gas & Electric Co.	11/10/2022	Essex Pumping March - Sept 2022	354,887.42
Pacific Gas & Electric Co.	11/16/2022	Eureka Office	793.22
Pacific Gas & Electric Co.	11/16/2022	Jackson Ranch Rectifier	45.25-
Pacific Gas & Electric Co.	11/16/2022	HWY 299 Rectifier	213.59
Pacific Gas & Electric Co.	11/16/2022	West End Road Rectifier	229.79
Pacific Gas & Electric Co.	11/16/2022	TRF	9,912.13
Pacific Gas & Electric Co.	11/16/2022	Ruth Hydro Valve Control	20.83-
Pacific Gas & Electric Co.	11/16/2022	Ruth Hydro	7,442.53-
Pacific Gas & Electric Co.	11/16/2022	Samoa Booster Pump Station	1,619.36
Pacific Gas & Electric Co.	11/16/2022	Samoa Dial Station	70.05
Total Pacific Gas & Electric Co.:			360,216.95

Humboldt Bay Municipal Water District

--Monthly Expenses by Vendor Detail Report--
Report dates: 11/1/2022-11/30/2022Page: 7
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Vendor Name	Date Paid	Description	Amount Paid
Pacific Paper Co.			
Pacific Paper Co.	11/28/2022	Essex office supplies	113.12
Pacific Paper Co.	11/28/2022	TRF OEC Office Furniture	148.70
Pacific Paper Co.	11/28/2022	Eureka office supplies	341.57
Total Pacific Paper Co.:			603.39
Pitney Bowes			
Pitney Bowes	11/18/2022	refill postage	500.00
Total Pitney Bowes:			500.00
Platt Electric Supply			
Platt Electric Supply	11/28/2022	Onsite Generation of Chlorine	142.75
Platt Electric Supply	11/28/2022	Onsite Generation of Chlorine	24.69
Platt Electric Supply	11/28/2022	Eureka office solar project	6,004.30
Platt Electric Supply	11/28/2022	Items purchased for electrical shop stock	301.70
Platt Electric Supply	11/28/2022	Onsite Generation of Chlorine	98.17
Platt Electric Supply	11/28/2022	Onsite Generation of Chlorine	847.41-
Platt Electric Supply	11/28/2022	Onsite Generation of Chlorine	39.73
Platt Electric Supply	11/28/2022	Onsite Generation of Chlorine	26.06
Platt Electric Supply	11/28/2022	Onsite Generation of Chlorine	19.03
Platt Electric Supply	11/28/2022	Onsite Generation of Chlorine	135.08
Platt Electric Supply	11/28/2022	Onsite Generation of Chlorine	127.70
Platt Electric Supply	11/28/2022	Onsite Generation of Chlorine	206.61
Platt Electric Supply	11/28/2022	Onsite Generation of Chlorine	50.57
Platt Electric Supply	11/28/2022	Eureka office solar project	77.60
Platt Electric Supply	11/28/2022	FLU 11294 Need L Lock	48.28
Platt Electric Supply	11/28/2022	Items purchased for electrical shop stock	53.75
Platt Electric Supply	11/28/2022	Eureka office solar project	4,764.41
Platt Electric Supply	11/28/2022	Eureka office solar project	4,598.31
Platt Electric Supply	11/28/2022	Eureka office solar project	4,267.57-
Platt Electric Supply	11/28/2022	Eureka office solar project	1,550.07
Platt Electric Supply	11/28/2022	Eureka office solar project	4,598.31-
Platt Electric Supply	11/28/2022	Eureka office solar project	4,267.57
Total Platt Electric Supply:			12,823.09
Points West Surveying Co			
Points West Surveying Co	11/09/2022	Mad River Cross Section at Essex	1,310.00
Points West Surveying Co	11/09/2022	Matthews Dam project, Vert Settlement Survey & Horiz Wing Wa	14,040.00
Total Points West Surveying Co:			15,350.00
Price Paige & Company			
Price Paige & Company	11/28/2022	FY 22 GASB 68 Audit	275.00
Total Price Paige & Company:			275.00
R. Brown Construction Company, Inc.			
R. Brown Construction Company, Inc.	11/28/2022	4 Loads of Rock	3,861.35
Total R. Brown Construction Company, Inc.:			3,861.35
Recology Arcata			
Recology Arcata	11/07/2022	Essex Garbage/Recycling Service	676.36

Humboldt Bay Municipal Water District

--Monthly Expenses by Vendor Detail Report--
Report dates: 11/1/2022-11/30/2022Page: 8
Dec 01, 2022 03:08PM

Vendor Name	Date Paid	Description	Amount Paid
Total Recology Arcata:			676.36
Recology Humboldt County			
Recology Humboldt County	11/07/2022	Eureka office garbage/recycling service	95.55
Total Recology Humboldt County:			95.55
Solo Sports			
Solo Sports	11/16/2022	Safety Apparel	1,828.23
Total Solo Sports:			1,828.23
Stillwater Sciences			
Stillwater Sciences	11/09/2022	Collector 4 biological monitoring	1,230.00
Stillwater Sciences	11/09/2022	404 Permit Review	164.00
Total Stillwater Sciences:			1,394.00
Streamline			
Streamline	11/02/2022	Website maintenance membership fee	450.00
Total Streamline:			450.00
The Mill Yard			
The Mill Yard	11/18/2022	Eureka Office Roof Repair	157.42
The Mill Yard	11/18/2022	Siding Materials for line shed #8	129.93
The Mill Yard	11/28/2022	8 ft step ladder for shop	186.61
The Mill Yard	11/28/2022	Line Shed #8 siding materials	52.86
Total The Mill Yard:			526.82
The Times-Standard			
The Times-Standard	11/28/2022	Advertisement for bid - Fire Fuel Reduction & Defensible Space	193.92
Total The Times-Standard:			193.92
Times Printing			
Times Printing	11/16/2022	envelopes HBMWD	191.41
Total Times Printing:			191.41
Trinity County General Services			
Trinity County General Services	11/28/2022	Pickett Peak site lease	257.50
Total Trinity County General Services:			257.50
Trinity County Solid Waste			
Trinity County Solid Waste	11/16/2022	Ruth HQ dump fees	16.11
Trinity County Solid Waste	11/16/2022	Ruth Hydro dump fees	16.11
Total Trinity County Solid Waste:			32.22
U.S. Bank Corporate Payment System			
U.S. Bank Corporate Payment System	11/10/2022	Eureka office supplies - envelopes	97.77
U.S. Bank Corporate Payment System	11/10/2022	Eureka office supplies - Mailing Labels	150.75
U.S. Bank Corporate Payment System	11/10/2022	PVC fittings for cust service truck - FB supplies	97.46

Humboldt Bay Municipal Water District

--Monthly Expenses by Vendor Detail Report--
Report dates: 11/1/2022-11/30/2022Page: 9
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Vendor Name	Date Paid	Description	Amount Paid
U.S. Bank Corporate Payment System	11/10/2022	Hotel for AWWA Fall Conference	620.82
U.S. Bank Corporate Payment System	11/10/2022	Spendwise monthly subscription - Sept 2022	79.70
U.S. Bank Corporate Payment System	11/10/2022	AirMed Renewals x 1	65.00
U.S. Bank Corporate Payment System	11/10/2022	Eureka office supplies - Toner & binder dividers	169.15
U.S. Bank Corporate Payment System	11/10/2022	Automated Call Credits - HB Retail	9.00
U.S. Bank Corporate Payment System	11/10/2022	Eureka office supplies - garbage can liners	19.44
U.S. Bank Corporate Payment System	11/10/2022	AWWA Fall Conference - Meal	19.47
U.S. Bank Corporate Payment System	11/10/2022	Hotel for AWWA Fall Conference	620.82
U.S. Bank Corporate Payment System	11/10/2022	Annual 2T Dropbox account for Dale	119.88
Total U.S. Bank Corporate Payment System:			2,069.26
U.S. Bank Corporate Trust Services			
U.S. Bank Corporate Trust Services	11/09/2022	SRF Quarterly Account Maint Fee (July - Sept 2022)	262.50
Total U.S. Bank Corporate Trust Services:			262.50
United Rentals, Inc			
United Rentals, Inc	11/16/2022	Replace shoring pump	1,303.78
Total United Rentals, Inc:			1,303.78
VALEO Networks			
VALEO Networks	11/29/2022	Eureka office monthly computer maintenance	1,880.99
VALEO Networks	11/18/2022	Replace Eureka Admin Computers	1,466.51
Total VALEO Networks:			3,347.50
Valley Pacific Petroleum Servi, Inc			
Valley Pacific Petroleum Servi, Inc	11/16/2022	Pumping & Control	786.81
Valley Pacific Petroleum Servi, Inc	11/16/2022	Water Quality	786.81
Valley Pacific Petroleum Servi, Inc	11/16/2022	Maintenance	786.81
Valley Pacific Petroleum Servi, Inc	11/16/2022	Humboldt Bay Retail	582.24
Valley Pacific Petroleum Servi, Inc	11/16/2022	Fieldbrook Glendale CSD	204.58
Valley Pacific Petroleum Servi, Inc	11/28/2022	Fuel Delivery to Ruth HQ	609.93
Valley Pacific Petroleum Servi, Inc	11/28/2022	Fuel Delivery to Ruth Hydro	609.93
Valley Pacific Petroleum Servi, Inc	11/28/2022	Spill kit for Main Office Emergency Generator	70.99
Total Valley Pacific Petroleum Servi, Inc:			4,438.10
Verizon Wireless			
Verizon Wireless	11/16/2022	General Manager	37.52
Verizon Wireless	11/16/2022	Ruth Area	32.00
Verizon Wireless	11/16/2022	Humboldt Bay Retail	33.29
Verizon Wireless	11/16/2022	Fieldbrook Glendale CSD	94.75
Verizon Wireless	11/16/2022	Operations 1	.10
Verizon Wireless	11/16/2022	Humboldt Bay IPAD	9.88
Verizon Wireless	11/16/2022	Fieldbrook Glendale CSD IPAD	28.13
Verizon Wireless	11/16/2022	Ruth Area	19.98
Verizon Wireless	11/16/2022	Ruth Hydro	19.98
Total Verizon Wireless:			275.63
Watt's Cleaning Services			
Watt's Cleaning Services	11/07/2022	Eureka Office Cleaning 10/12 & 10/26/22	278.00

Humboldt Bay Municipal Water District

--Monthly Expenses by Vendor Detail Report--
Report dates: 11/1/2022-11/30/2022Page: 10
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Vendor Name	Date Paid	Description	Amount Paid
Total Watt's Cleaning Services:			278.00
Wes Green Landscaping			
Wes Green Landscaping	11/07/2022	<i>Eureka office green waste</i>	15.00
Total Wes Green Landscaping:			15.00
Western States Oil Company			
Western States Oil Company	11/28/2022	<i>Collector Pump Lube oil</i>	3,784.86
Western States Oil Company	11/28/2022	<i>diesel equipment oil</i>	1,406.08
Total Western States Oil Company:			5,190.94
Wienhoff & Associates Inc			
Wienhoff & Associates Inc	11/16/2022	<i>Annual Consortium membership</i>	255.00
Total Wienhoff & Associates Inc:			255.00
Wyckoff Plumbing			
Wyckoff Plumbing	11/16/2022	<i>Pump Septic Tank at Hydro Plant</i>	1,400.00
Total Wyckoff Plumbing:			1,400.00
Grand Totals:			713,758.29

Humboldt Bay Municipal Water District

To: Board of Directors
From: Chris Harris
Date: December 8, 2022
Re: Accounts Receivable Module/Caselle

Background

In December 2017, staff presented the Board of Directors with an analysis comparing multiple software companies for the upgrade of the District's financial software. Staff requested, and Directors approved, the purchase of Caselle Software, including modules for General Ledger, Utility Management, Payroll, Timekeeping, Accounts Payable, and Cash Receipting. This purchase (\$57,685 less Fieldbrook portion of \$19,804, for total initial expense of \$37,881) greatly increased efficiency by allowing the District to integrate and upgrade the accounting, payroll, and utility billing activities into one software suite.

Current

Based on the success of the transition to the Caselle Software, and due to upcoming employee transitions due to retirements, staff has researched adding an Accounts Receivable module to the Caselle Suite. Accounts Receivable for the District includes: retiree medical premium billing (monthly), hydrant meter billing (monthly), Harbor District billing (as needed), new meter installations (as needed), the Don Bridge Lease (annual), as well as other random accounts receivable as needed. Accounts Receivable is a minor part of the District's revenue, and as such has historically been tracked outside the accounting software system. Staff proposes to integrate the Accounts Receivable activity into Caselle to streamline this process and consolidate the data to be accessible for all accounting staff for recording and follow up purposes.

Staff has negotiated an initial, one-time cost of \$5,000 for the set-up, installation, and training for the Accounts Receivable Module. The on-going maintenance cost (covers all updates, customer service, and any software issues) is \$138/month (\$1,656/annually). Historically the District has paid these fees on an annual basis to receive a 3% discount (\$1,606/annually with discount).

Staff Recommendation

Staff recommends the District purchase the Accounts Receivable Module to add to the District's Caselle Software Suite for the one-time cost of \$5,000 to be paid initially out of General Reserves, to be reimbursed in June with the annual Budget Reallocation. The maintenance charges will not be incurred until the module is functioning and staff have been fully trained (potentially February or March). Moving forward, the maintenance fee will be rolled into the Service and Supply Budget as annual maintenance billing in July to receive the 3% discount.

Attachments

Quote from Caselle for Accounts Receivable Module

Caselle® Software & Services Proposal

Humboldt Bay Municipal Water District, CA

October 7, 2022
(Valid for 90 days)

From:

Farrah Brown, Customer Relationship Manager
fkb@caselle.com

Caselle® Software & Services Proposal
 Humboldt Bay Municipal Water District, CA
 September 21, 2022

Proposal Summary

Total Software License	\$5,500	
Special Consideration Discount	<1,100>	
Net Software License		\$4,400
Total Training	550	
Special Consideration Discount	<450>	
Net Training Cost		\$100
Total Setup		500
Total Investment		\$5,000

Monthly Software Assurance will increase by \$138.

I have read and agree to all terms & conditions proposed herein.

 Signature

 Printed Name & Title

 Date



Caselle® Software & Services Proposal
Humboldt Bay Municipal Water District, CA
September 21, 2022

Proposal Detail

<i>Caselle</i> ® Application Software	License Fees	Training	Setup	Total
Accounts Receivable	\$5,500	\$550	\$500	\$6,550
Sub Total	\$5,500	\$550	\$500	\$6,550
Special Consideration Discount	(1,100)	(450)	-	(1,550)
Grand Total	\$4,400	\$100	\$500	\$5,000

Note: The training will take place online.

Accounts Receivable Setup

- Set up the appropriate billing categories and penalty rates.
- Format standard reports for reporting and balancing of customer accounts.
- Format one of each of the following: statements, invoices, and delinquent notices.
- Create a Checklist to document Accounts Receivable procedures.
- Additional form layouts for statements, invoices, and delinquent notices will be billed at the rate of \$100 per form. Forms that have multiple pages will be billed \$100 for each additional page included in the form.

Operations

Memo to: HBMWD Board of Directors
From: Dale Davidsen, Superintendent
Date: December 1st, 2022
Subject: Essex/Ruth November 2022 Operational Report

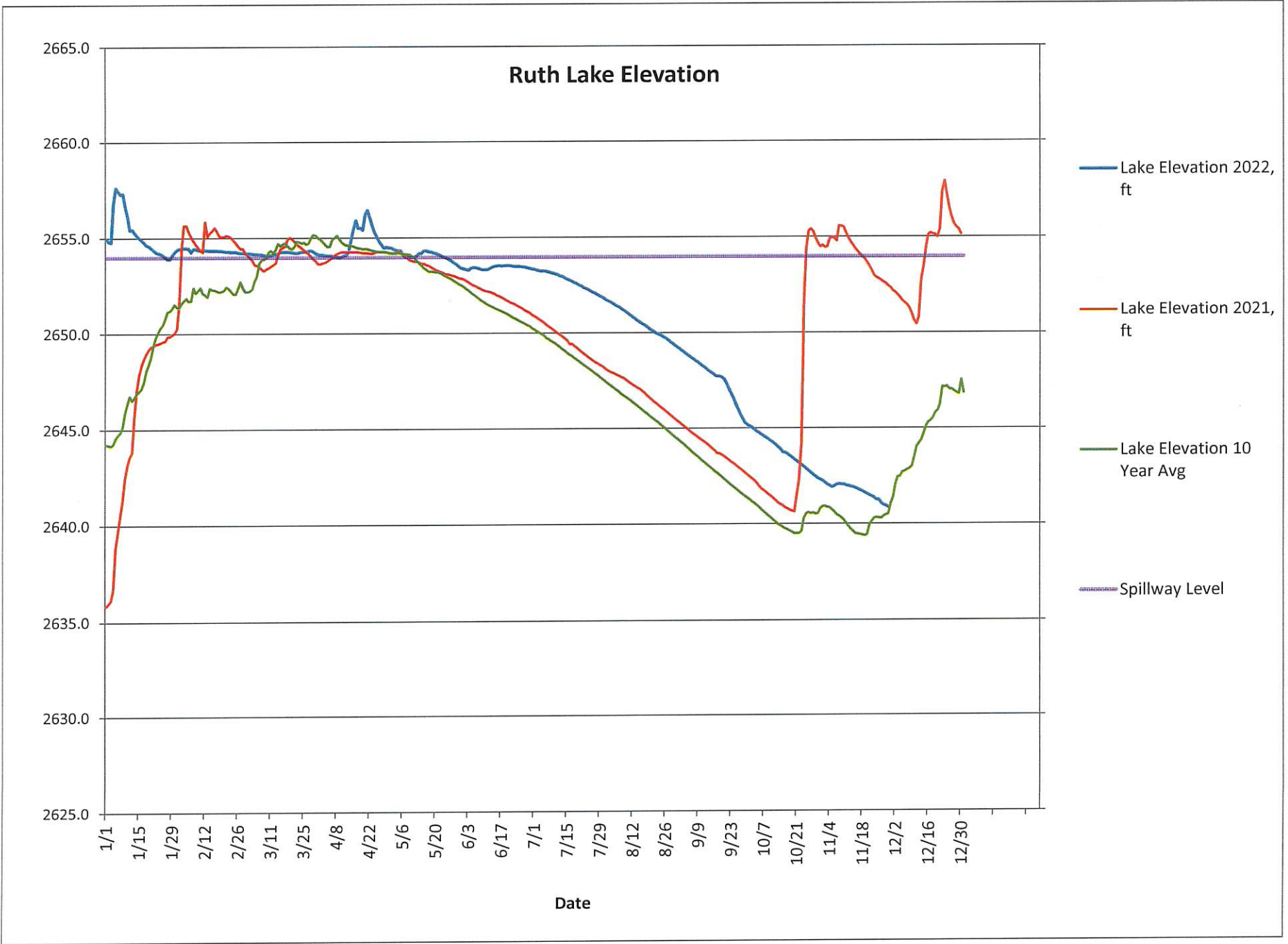
Upper Mad River, Ruth Lake, and Hydro Plant

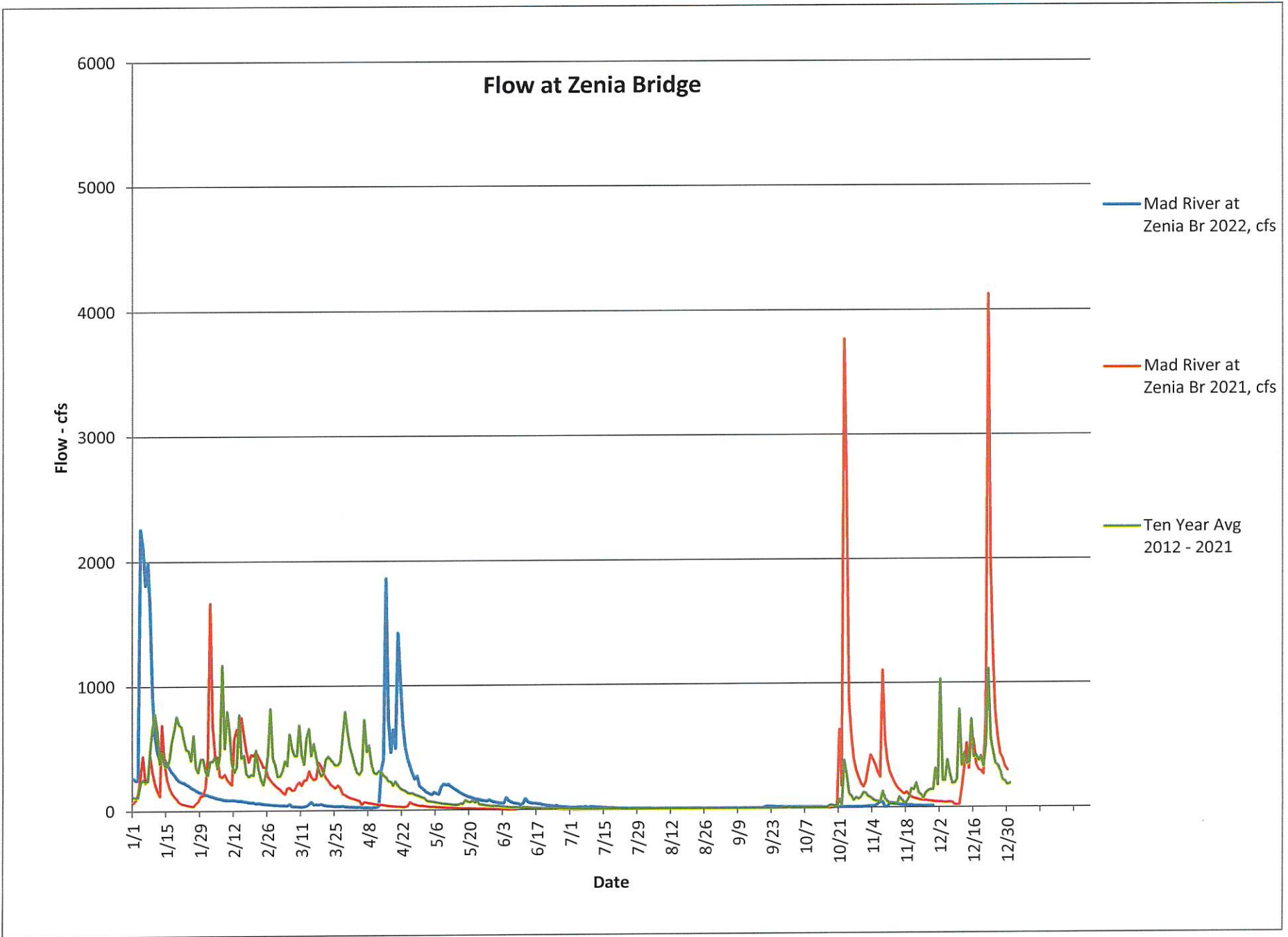
1. Flow at Mad River above Ruth Reservoir (Zenita Bridge) averaged 16 cfs with a high of 44 cfs on November 9th and a low of 6 cfs on November 1st
2. The conditions at Ruth Lake for November were as follows:
The lake level on November 30th was 2640.88 feet which is:
 - 1.50 feet lower than October 31st, 2022
 - 11.57 feet lower than November 30th, 2021
 - 0.36 feet higher than the ten-year average
 - 13.12 feet below the spillway
3. Ruth Headquarters recorded 4.07 inches of rainfall for November
4. Ruth Hydro produced 148,400 KWh in November. There was 1 shut down: a PGE planned event for 5 hours and 7 minutes with 1023 KWh lost production
5. The lake discharge averaged 44 cfs with a high of 48 cfs on November 11th

Lower Mad River, Winzler Control, and TRF

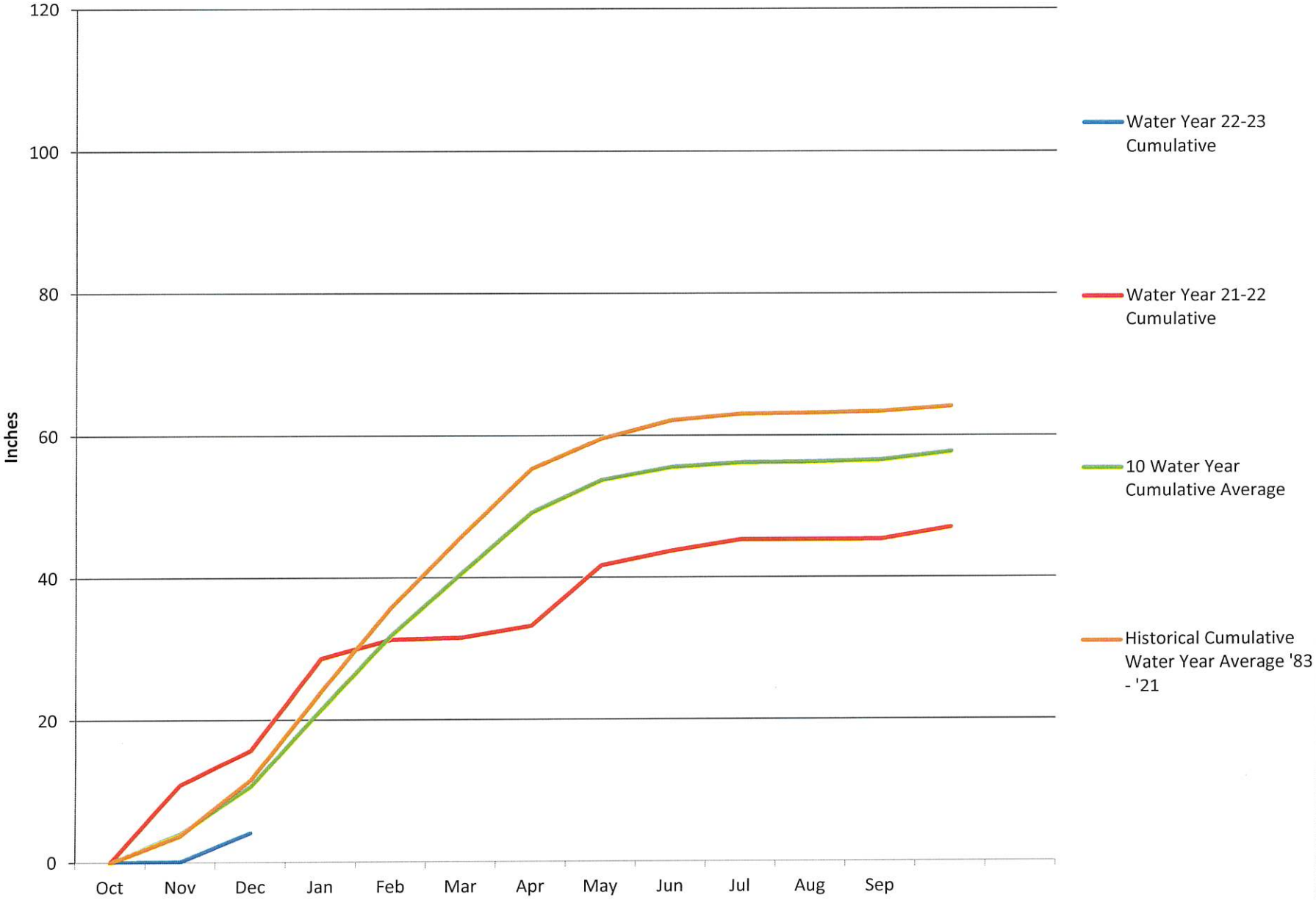
6. The river at Winzler Control Center, for November, had an average flow of 126 cfs. The river flow was a high of 336 cfs on November 9th
7. The domestic water conditions were as follows:
 - a. The domestic water turbidity average was 0.13 NTU, which meets Public Health Secondary Standards
 - b. As of November 30th, we pumped 204.538 MG at an average of 7.266 MGD
 - c. The maximum metered daily municipal use was 7.703 MG on November 23rd
8. The TRF is online; conditions for November were as follows:
 - a. Average monthly source water turbidity was 0.07 NTU
 - b. Average monthly filtered water turbidity was 0.04 NTU
 - c. Number of filter backwashes for the month was 33

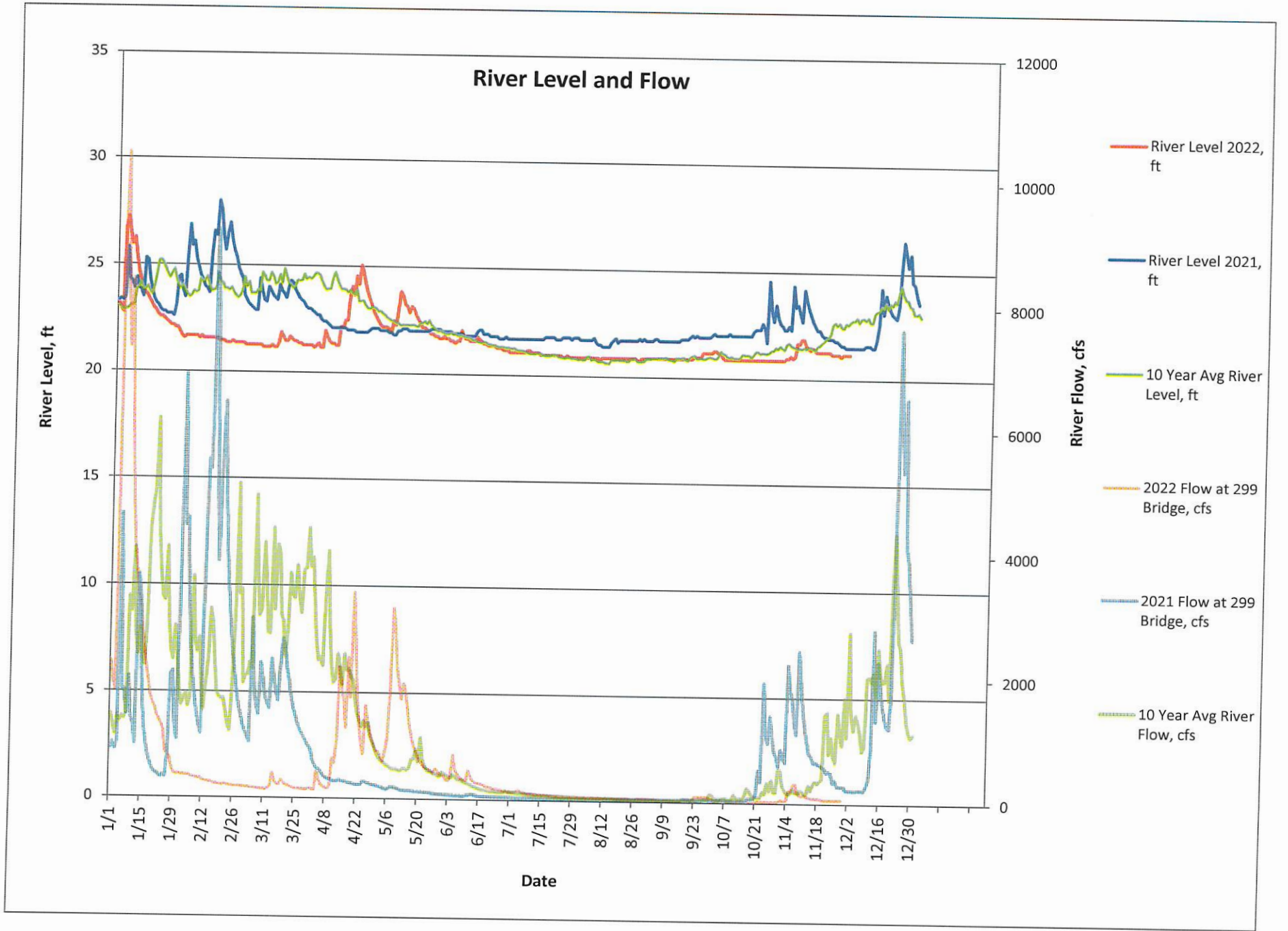
9. November 1st – Contractor set extension on I/W dissipator vault.
10. November 8th – Annual EAP Call Down drill.
11. November 8th – 10th – Contractor on-site for Crane inspections and certification.
12. November 9th – Scott Gilbreath from SWRCB was on-site for annual inspection of process, record keeping, and facilities.
13. November 12 – New unit 4 was delivered to Essex.
14. November 17th – Contractor on-site for Transformer inspection and testing.
15. November 29th – A number of staff attended a webinar for introducing a new USA North ticket platform.
16. November 29th – 30th – Contractor on-site for Chlorine system maintenance.
17. Current and Ongoing Projects
 - a. Tesla battery bank projects
 - i. TRF project is done, Commissioning soon, waiting for PG&E PTO.
 - ii. Essex project coming together.
 - b. OSHG – Working with the selected vendor for Equipment purchase.
 - c. Collector 1 interior painting – In progress – Winter work, back burner for now.
 - d. Line shed 8 – In progress
 - e. Main Office Solar project – Roof complete. Solar panels purchased.
 - f. Routine annual equipment maintenance and services.





Ruth Rainfall - Water Year 2022-2023





Memo to: Board of Directors
From: Dale Davidsen, Superintendent
Date: November 17, 2022
Subject: Surplus equipment request

The District has replaced Unit 4 in the FY 22-23 budget due to emissions compliance requirements. I propose the District surplus Unit 4, a 2006 Ford F-550, single cab with a utility bed and Altec AT37G manlift.



Management

★ Agenda items marked with this symbol will be recorded and available for
Note: Tuesday Committee meetings will not be recorded or

SECTION 121 PAGE NO. 1

ACWA JPIA - MONDAY, NOV 28

8:30 - 10:00 AM

- ACWA JPIA Property Program

10:15 - 11:15 AM

- ACWA JPIA Executive Committee

11:30 - 12:30 PM

- ACWA JPIA Pre-Board Meeting Lunch

1:00 - 4:30 PM

- ACWA JPIA Board of Directors

5:30 - 8:00 PM

- ACWA JPIA Dinner

TUESDAY, NOV 29

7:00 AM - 6:00 PM

- Registration

8:00 AM - 9:45 AM

- Agriculture Committee

8:30 AM - Noon

- ACWA JPIA Seminars

10:00 - 11:45 AM

- Groundwater Committee
- Energy Committee

11:00 AM - Noon

- Outreach Task Force

Noon - 2:00 PM

- Committee Lunch Break

1:00 - 2:45 PM

- Finance Committee
- Water Management Committee

1:00 - 3:00 PM

- ACWA JPIA: Sexual Harassment Prevention for Board Members & Managers (AB 1825)

3:00 - 4:45 PM

- Communications Committee
- Federal Affairs Committee
- Legal Affairs Committee
- Local Government Committee
- Membership Committee
- Water Quality Committee

5:00 - 6:30 PM

- Welcome Reception in the Exhibit Hall

WEDNESDAY, NOV 30

7:30 AM - 5 PM

- Registration

8:00 - 9:45 AM

- Opening Breakfast *(Ticket Required)* ★

8:30 AM - 6:00 PM

- Connect in the Exhibit Hall

10:15 - 11:15 AM

- Attorneys Program ★
- Finance Program ★
- Region Forum ★
- Statewide Forum ★
- Water Industry Trends Program ★
- Roundtable Talk

11:30 AM - 1:30 PM

- Connect in the Exhibit Hall
- Networking Lunch *(Ticket Required)*

12:30 PM - 1:30 PM

- General Session

1:45 - 2:45 PM

- Attorney Program ★
- Communications Committee Program ★
- Finance Program ★
- Federal Forum ★
- Statewide Forum ★
- Roundtable Talk

3:30 - 4:45 PM

- Regions 1-10 Membership Meetings

5:00 - 6:00 PM

- ACWA Outreach Reception in the Exhibit Hall

6:00 - 7:00 PM

- CalDesal Hosted Mixer

6:00 - 7:15 PM

- Women in Water Hosted Reception

THURSDAY, DEC 1

7:30 AM - Noon

- Registration

8:00 AM - 9:30 AM

- Exhibitor Demonstrations
- Networking Continental Breakfast in the Exhibit Hall *(Ticket Required)*

8:30 - 10:45 AM

- Ethics Training (AB 1234) - *Limited Seating*

9:30 AM - 10:00 AM

- Prize Drawings in the Exhibit Hall

10:15 - 11:45 AM

- Attorney Program ★
- Finance Program ★
- Region Forum ★
- Statewide Forum ★
- Water Industry Trends Program ★
- Roundtable Talk

Noon - 2:00 PM

- General Session Luncheon *(Ticket Required)* ★

2:15 - 3:15 PM

- Innovation Forum ★
- Region Forum ★
- Water Industry Trends Program 1 ★
- Water Industry Trends Program 2 ★

3:30 - 4:30 PM

- Closing Reception

Last modified: November 16, 2022

Registration required to attend any part of ACWA's Fall Conference & Exhibition, including Tuesday, Nov. 29 complimentary committee meetings. See www.acwa.com for health & safety attendance requirements.

QUESTIONS?

Email us at events@acwa.com

Registration Cancellation Deadline: November 11, 2022, 4:30 p.m. (PT)

All conference programs are subject to change without notice.

Certificate of Completion



2022 Board Secretary / Clerk Program

Seaside, CA – November 7 – 9, 2022

Angela Smart

Humboldt Bay Municipal Water District

Neil C. McCormick, CSDA Chief Executive Officer

Ryan Clausnitzer, CSDA Board President

Co-Sponsored By:



Special District Risk Management Authority

Certificate of Completion



Workshop: Business Writing for Board Secretaries

Seaside, CA – November 7, 2022

Angela Smart

Humboldt Bay Municipal Water District


Neil C. McCormick, CSDA Chief Executive Officer


Ryan Clausnitzer, CSDA Board President

Co-Sponsored By:



Special District Risk Management Authority



Regional Roundtable Listening Session on Infrastructure Investments

Monday, October 21, 2022

3:45 PM - 4:45 PM

Welcome

Bryna Lipper, Chief Executive Officer, Humboldt Area Foundation

Introductions and Acknowledgments

Priscilla Cheng, Director of External Affairs, Office of Governor Newsom

Opening Remarks

Antonio Villaraigosa, Infrastructure Advisor, Office of Governor Newsom

Discussion

Open to all attendees, facilitated by Priscilla Cheng

Closing Remarks

Antonio Villaraigosa, Infrastructure Advisor, Office of Governor Newsom

HBmWD Participated.





Economic Development Quarterly Newsletter
November 2022

Updates to the CEDS Community Roadshows

As part of creating a cohesive Community Vision, the CEDS team has traveled around the County to hold five Community Roadshow Events. At these Roadshows, staff was able to engage in open and honest conversations with community members and learn more about what their priorities and needs are over the coming five years. These events were followed up by a **Community & Industry Leader Roadshow**, where the leaders from around the County were asked to review and add to our Community findings and set goals for the coming 5 years.

Completed Roadshows:

Southern Humboldt

8/24 Redwood Playhouse, Garberville

Eel River Valley 530-7pm

8/29/22 River Lodge Conference Center, Fortuna

North County

8/30/22 Azalea Hall, McKinleyville

Greater Eureka Area & Humboldt Bay

9/7/22 Eureka Sequoia Conference Center, Eureka

Orick to Trinidad Region

9/8/22 Trinidad Town Hall, Trinidad

Community & Industry Leader Roadshow

10/27/22 Arcata Community Center, Arcata



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

MICHELLE FULLER, DIRECTOR

DAVID LINDBERG, DIRECTOR

GENERAL MANAGER

JOHN FRIEDENBACH

December 8, 2022

Humboldt Bay Harbor and Conservation District
601 Startare Drive
Eureka, CA 95501

Re: Domestic and Industrial Water Supply

Dear Directors,

We wish to congratulate your district on the Humboldt Bay Offshore Wind and Heavy Lift Marine Terminal project that you recently announced. The Master Plan graphic showing the build out is very impressive. We are writing to formally express our concerns for the future water supply needs for this undertaking. As you know, the former LP Pulp Mill site was a single HBMWD water customer with both domestic and industrial water service. Each were connected to their respective water transmissions systems via independent single meters. The domestic service is a six inch (6 in) pipeline which is located south westerly of the Nordic Aquafarms project. This size water service may not be adequate for your Master Plan development. Therefore, we respectfully suggest that we begin detailed discussions regarding how best to provide water service, both domestic drinking water and fire suppression water, to your projects at full build out as currently projected.

It is our understanding that our respective staffs have conducted preliminary discussions, but we feel the need to elevate this item to the Board level as there will likely be major infrastructure improvements required and water supply agreements necessary. Infrastructure improvements will require funding, permitting, engineering design, and construction. It will be critical for the success of your project that any necessary improvements are coordinated with your timeline for development.

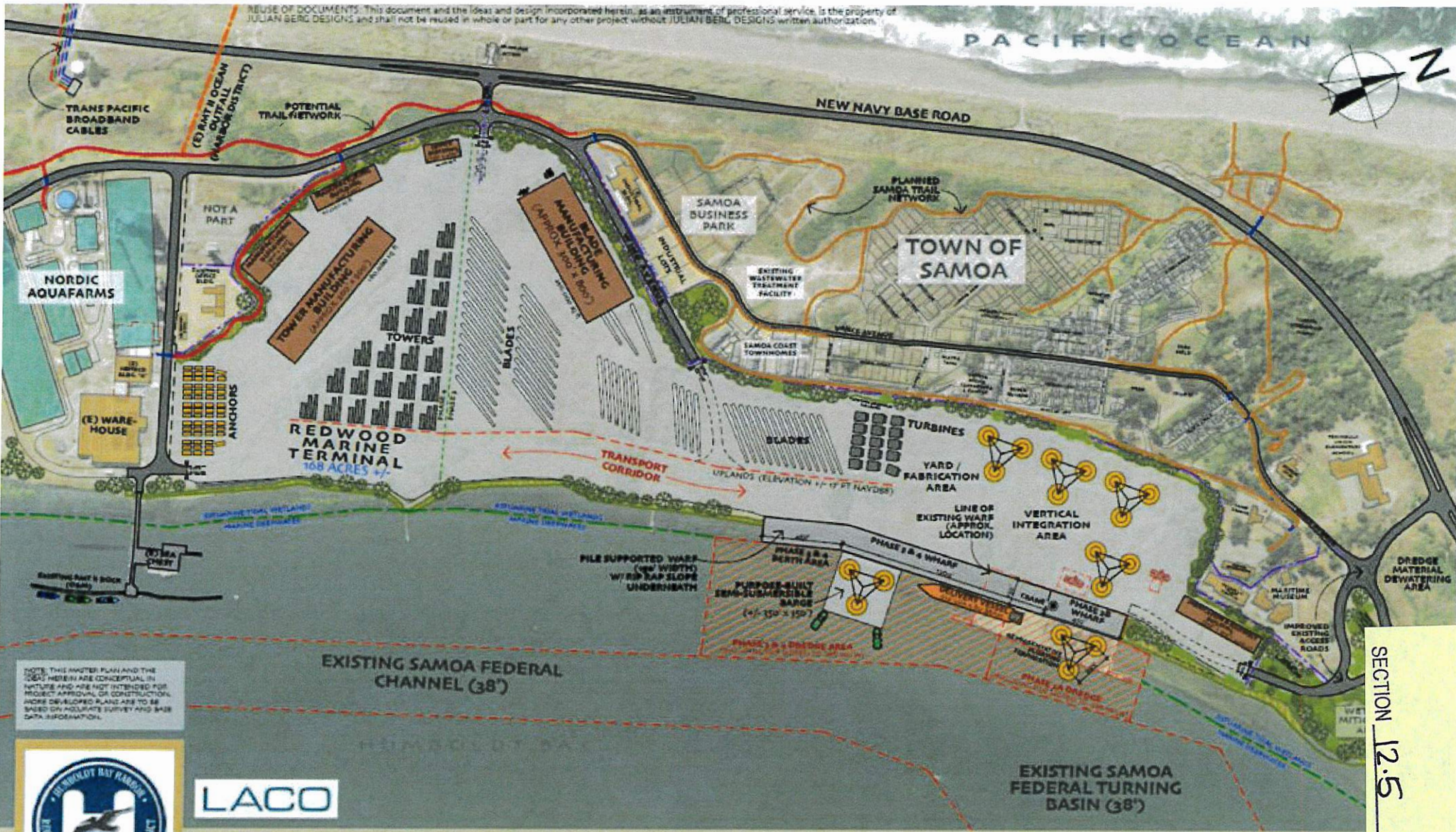
We have a local sales committee, Directors Latt and Rupp, who are available to meet with a committee of your directors to begin our discussions.

We look forward to hearing from you soon.

Respectfully,

Sheri Woo, Board President

REUSE OF DOCUMENTS: This document and the ideas and design incorporated herein, as an instrument of professional service, is the property of JULIAN BERG DESIGNS and shall not be reused in whole or part for any other project without JULIAN BERG DESIGNS written authorization.

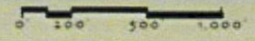


NOTE: THIS MASTER PLAN AND THE IDEAS HEREIN ARE CONCEPTUAL IN NATURE AND ARE NOT INTENDED FOR PROJECT APPROVAL OR CONSTRUCTION. MORE DEVELOPED PLANS ARE TO BE BASED ON ACCURATE SURVEY AND BATHYMETRY DATA INFORMATION.



LACO

moftatt & nichol

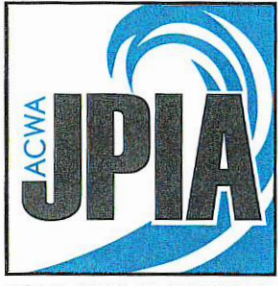


HUMBOLDT BAY OFFSHORE WIND AND HEAVY LIFT MARINE TERMINAL MASTER PLAN

JULIAN BERG DESIGNS
ARCHITECTURE & PLANNING
ARCATA, CALIFORNIA
julianbergdesigns.com
TEL: (707) 497-4870

7.30.21

ACWA - JPIA



YOUR BEST PROTECTION

11/28/2022

ACWA JPIA

P. O. Box 619082
Roseville, CA 95661-9082

phone
916.786.5742
800.231.5742

www.acwajpia.com

President

E.G. "Jerry" Gladbach

Vice President

Melody A. McDonald

Chief Executive Officer

Walter "Andy" Sells

Executive Committee

Fred Bockmiller

David Drake

E.G. "Jerry" Gladbach

Cathy Green

Brent Hastey

Chris Kapheim

Melody A. McDonald

Randall Reed

J. Bruce Rupp

Humboldt Bay Municipal Water District (H002)
P.O. Box 95
Eureka, CA 95502-0095

General Manager:

Each year at Fall Conference, the JPIA recognizes members that have a Loss Ratio of 20% or less in either of the Liability, Property or Workers' Compensation programs (loss ratio = total losses / total premiums).

The members with this distinction receive the "**President's Special Recognition Award**" certificate for each Program that they qualify in.

The JPIA is extremely pleased to present Humboldt Bay Municipal Water District (H002) with this special recognition and commends the District on the hard work in reducing claims.

Congratulations to you, your staff, Board, and District. Keep up the good work!

The JPIA wishes you the best in 2023.

Sincerely,

Melody McDonald
President

Enclosure: President's Special Recognition Award(s)

- Core Values*
- *People*
 - *Service*
 - *Integrity*
 - *Innovation*

President's Special Recognition Award

*The President of the
ACWA JPIA
hereby gives Special Recognition to*

Humboldt Bay Municipal Water District

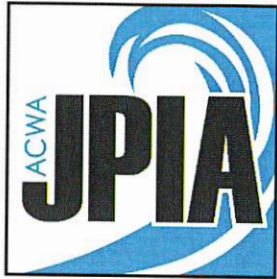
*for achieving a low ratio of "Paid Claims and Case Reserves" to "Deposit Premiums"
in the Liability Program for the period 10/01/2018 - 09/30/2021
announced at the Board of Directors' Meeting in Indian Wells.*



Melody McDonald, President



November 28, 2022



YOUR BEST PROTECTION

EXECUTIVE COMMITTEE MEETING

AGENDA

JPIA Executive Conference Room
2100 Professional Drive, Roseville, CA 95661
(800) 231-5742 - WWW.ACWAJPIA.COM

Executive Committee Core Values
Trust | Integrity | Listen | Good of the Whole

Monday, November 14, 2022 – 8:30 a.m.

WELCOME

CALL TO ORDER AND ANNOUNCEMENT OF QUORUM

PLEDGE OF ALLEGIANCE

ANNOUNCEMENT RECORDING OF MEETING This meeting may be recorded to assist in preparation of minutes. Recordings will only be kept 30 days following the meeting, as mandated by the California Brown Act.

EVACUATION PROCEDURES

PUBLIC COMMENT Members of the public will be allowed to address the Executive Committee on any agenda item prior to the Committee's decision on the item. They will also be allowed to comment on any issues that they wish which may or may not be on the agenda. If anyone present wishes to be heard, please let the Chair know.

INTRODUCTIONS

ADDITIONS TO OR DELETIONS FROM THE AGENDA

Presenter

Page#

I. CONSENT AGENDA

McDonald

- * A. Approve the minutes of the September 28, 2022 meeting.

5

McDonald

- B. Approve the JPIA disbursements of: Vendor payments, Employee Benefits claim payments, Payroll, and Summary of Confidential Claims payments for the Liability, Property, & Workers' Compensation Programs: September 16-30, 2022; October 1-15, 2022; and October 16-31, 2022.

McDonald

- C. Approve an excused absence for any Executive Committee member.

PresenterPage#**II. ADMINISTRATION**

McDonald	A. Report on meetings attended on behalf of the JPIA.	
Egan	* B. Review of CEO performance process and set CEO goals for 2022-23.	13
Greenfield	* C. Review and possibly take action on the Claims Authority Policy revision.	16
Sells	* D. Review and possibly take action on proposed revision to the JPIA Bylaws.	17
Slaven	E. Review and take action on new position and resultant salary schedule.	19
Sells	* F. Review and approve proposed JPIA Calendar of Meetings for 2023.	24

III. CALIFORNIA WATER INSURANCE FUND

Rupp	* A. Review of the CWIF Board of Directors meeting held on October 26, 2022.	26
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IV. MISCELLANEOUS

McDonald	A. Discuss future agenda items.	
Sells	* B. CEO update.	27
Giammona	C. ACWA update.	
McDonald	* D. Review the availability of the Committee members for upcoming meeting at Fall Conference in Indian Wells on November 28, 2022.	28

V. CLOSED SESSION

	A. Conference with Legal Counsel (tort liability losses, public liability losses/claims, or workers' compensation liability claims) – Pursuant to Government Code Sec. 54956.95.	
Tucker	* 1. Gary Walker v. Ramona Municipal Water District (DOL 4/10/13)	

ADJOURN

*Related items enclosed.

Americans with Disabilities Act – The JPIA conforms to the protections and prohibitions contained in Section 202 of the Americans with Disabilities Act of 1990 and the Federal Rules and Regulations adopted in implementation thereof. A request for disability-related modification or accommodation, in order to participate in a public meeting of the JPIA, shall be made to: Chimene Camacho, Executive Assistant to the CEO, ACWA JPIA, PO Box 619082, Roseville, CA 95661-9082; telephone (916) 786-5742. The JPIA's normal business hours are Monday – Friday, 7:30 a.m. to 4:30 p.m. (Government Code Section 54954.2, subdivision. (a)(1).)

Written materials relating to an item on this Agenda that are distributed to the JPIA's Executive Committee within 72 hours before it is to consider the item at its regularly scheduled meeting will be made available for public inspection at ACWA JPIA, 2100 Professional Drive, Roseville, CA 95661-3700; telephone (916) 786-5742. The JPIA's normal business hours are Monday – Friday, 7:30 a.m. to 4:30 p.m.

RCEA/RREDC



BOARD OF DIRECTORS MEETING AGENDA

November 17, 2022 -Thursday, 3:30 p.m.

COVID-19 NOTICE

RCEA AND HUMBOLDT BAY MUNICIPAL WATER DISTRICT OFFICES WILL NOT BE OPEN TO THE PUBLIC FOR THIS MEETING

Pursuant to the Governor's [Executive Order N-29-20](#) of March 17, 2020, and [revised Brown Act provisions](#) signed into law on September 16, 2021, the RCEA Board of Directors meeting will not be convened in a physical location. Board members will participate in the meeting via an online Zoom video conference.

To participate in the meeting online, go to <https://us02web.zoom.us/j/81972368051>. **To participate by phone**, call (669) 900-6833 or (253) 215-8782. Enter webinar ID: 819 7236 8051.

To make a comment during the public comment periods, raise your hand in the online Zoom webinar, or press star (*) 9 on your phone to raise your hand. You will continue to hear the meeting while you wait. When it is your turn to speak, a staff member will unmute your phone or computer. You will have 3 minutes to speak.

You may submit written public comment by email to PublicComment@redwoodenergy.org. **Please identify the agenda item number in the subject line.** Comments will be included in the meeting record but not read aloud during the meeting.

While downloading the Zoom application may provide a better meeting experience, Zoom does not need to be installed on your computer to participate. After clicking the webinar link above, click "start from your browser."

In compliance with the Americans with Disabilities Act, any member of the public needing special accommodation to participate in this meeting should call (707) 269-1700 or email Ltaketa@redwoodenergy.org at least 3 business days before the meeting. Advance notice enables RCEA staff to make their best effort to reasonably accommodate access to this meeting while maintaining public safety.

Pursuant to Government Code section 54957.5, all writings or documents relating to any item on this agenda which have been provided to a majority of the Board of Directors, including those received less than 72 hours prior to the RCEA Board meeting, will be made available to the public at www.redwoodenergy.org.

OPEN SESSION Call to Order

1. REPORTS FROM MEMBER ENTITIES

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 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.

3. CONSENT CALENDAR

All matters on the Consent Calendar are considered to be routine by the Board and are enacted in 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 October 27, 2022, Board Meeting.

3.2 Approve Disbursements Report.

3.3 Accept Financial Reports.

3.4 Approve Resolution 2022-9, A Resolution of the Board of Directors of the Redwood Coast Energy Authority Approving Amendment No. 1 to a Behind the Retail Meter Capacity Storage Agreement with Swell VPP Fund 2021-I LLC.

3.5 Accept Quarterly Budget Report (Q1).

4. REMOVED FROM CONSENT CALENDAR ITEMS

Items removed from the Consent Calendar will be heard under this section.

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.

5. OLD CCE BUSINESS

5.1. Energy Risk Management Quarterly Report

Accept Energy Risk Management Quarterly Report.

6. NEW CCE BUSINESS – None.

END OF COMMUNITY CHOICE ENERGY (CCE) BUSINESS

7. OLD BUSINESS

7.1 Brown Act Open Meeting Law Changes and Meeting Options

Continue to conduct fully virtual meetings until February 28, 2023.
Adopt Resolution No. 2022-6 Ratifying Governor Newsom's March 4, 2020, State of Emergency Proclamation and Authorizing Remote Teleconference Meetings of RCEA's Legislative Bodies, for the period November 17, 2022, through December 15, 2022, pursuant to Brown Act revisions of AB 361.

OR:

Adopt Resolution No. 2022-6 Ratifying Governor Newsom's March 4, 2020, State of Emergency Proclamation and Authorizing Remote Teleconference Meetings of RCEA's Legislative Bodies, for the period November 17, 2022, through December 15, 2022, pursuant to Brown Act revisions of AB 361, and approve conducting RCEA Board and Community Advisory Committee meetings in a **hybrid** in-person and teleconference format at the Jefferson Community Center auditorium **beginning December 15, 2022**, for the Board and January 10, 2023, for the Community Advisory Committee.

OR:

Approve conducting RCEA Board and Community Advisory Committee meetings in a **hybrid** in-person and teleconference format pursuant to AB 2449 at the Jefferson Community Center auditorium **beginning December 15, 2022**, for the Board and January 10, 2023, for the Community Advisory Committee.

8. NEW BUSINESS – None.

9. STAFF REPORTS

9.1 Executive Director's Report

10. FUTURE AGENDA ITEMS

Any request that requires Board action will be set by the Board for a future agenda or referred to staff.

11. CLOSED SESSION

11.1. Conference with real property negotiators pursuant to Government Code § 54956.8 in re: APNs 001-141-005 and 001-141-006; RCEA negotiator: Executive Director; Owner's negotiating party: Wells Commercial; Under negotiation: price and terms.

11.2. Public Employee Performance Evaluation, pursuant to Government Code Section 54957(b)(1): Executive Director.

12. RECONVENE TO OPEN SESSION

13. CLOSED SESSION REPORT

14. ADJOURNMENT

NEXT REGULAR MEETING

Thursday, December 15, 2022, 3:30 p.m.

Meeting location to be determined. Online and phone participation will be available via Zoom.



Redwood Coast Energy Authority
633 3rd Street, Eureka, CA 95501
Phone: (707) 269-1700 Toll-Free (800) 931-7232 Fax: (707) 269-1777
E-mail: info@redwoodenergy.org Web: www.redwoodenergy.org

BOARD OF DIRECTORS DRAFT MEETING MINUTES

October 27, 2022 - Thursday, 3:30 p.m.

Notice of this meeting was posted on October 22, 2022. Chair Stephen Avis called a regular meeting of the Board of Directors of the Redwood Coast Energy Authority to order on the above date at 3:34 p.m., stating that the teleconference meeting was being conducted pursuant to the AB 361 Brown Act open public meeting law revisions signed into law on September 16, 2021, and Governor Newsom's State of Emergency Proclamation of March 4, 2020. Chair Avis asked Vice Chair Chris Curran to continue facilitating the meeting, and Vice Chair Curran stated that the posted agenda contained public teleconference meeting participation instructions.

PRESENT: Chair Stephen Avis, Scott Bauer, Rex Bohn (arrived 3:38 p.m., left 5:00 p.m.), Vice Chair Chris Curran, Mike Losey, Sarah Schaefer, Jack Tuttle, Frank Wilson, Sheri Woo. ABSENT: None. STAFF AND OTHERS PRESENT: Regulatory and Legislative Policy Manager Aisha Cissna; General Counsel Nancy Diamond; Power Resources Director Richard Engel; Senior Power Resources Manager Jocelyn Gwynn; Executive Director Matthew Marshall; Administrative Specialist Meredith Matthews; Power Resources Specialist Colin Mateer; Board Clerk Lori Taketa; Deputy Executive Director Eileen Verbeck.

ORAL COMMUNICATIONS

Member of the public Wendy Ring expressed support for community solar and expressed hope that RCEA take advantage of AB 2316 and the Inflation Reduction Act to help public and nonprofit entities build solar facilities for reduced cost to further energy justice and local, renewable energy.

Executive Director Marshall congratulated Chair Avis on being honored by the American Planning Association for outstanding contributions to professional planning.

Member of the public Walt Paniak thanked RCEA for offering REpower+, a carbon-free energy service to customers.

Vice Chair Curran closed the oral communications portion of the meeting.

CONSENT CALENDAR

- 3.1 Approve Minutes of September 22, 2022, Board Meeting.
- 3.2 Approve Disbursements Report.
- 3.3 Accept Financial Reports.
- 3.4 Accept Legislative Quarterly Report.
- 3.5 Extend Resolution No. 2022-6 Ratifying Governor Newsom's March 4, 2020, State of Emergency Proclamation and Authorizing Remote Teleconference Meetings of

RCEA's Legislative Bodies, for the period October 27, 2022, through November 25, 2022, pursuant to Brown Act revisions of AB 361.

Neither directors nor members of the public requested items be removed from the consent calendar.

M/S: Losey, Schaefer: Approve consent calendar items.

The motion passed with a unanimous roll call vote. Ayes: Avis, Bauer, Bohn, Curran, Losey, Schaefer, Tuttle, Wilson, Woo. Noes: None. Absent: None. Abstain: None.

Vice Chair Curran confirmed there was a Community Choice Energy quorum.

OLD CCE BUSINESS

5.1. Integrated Resource Plan Power Portfolio Approval

Power Resources Director Engel clarified that the Board-supported, diversified scenario preserves the diversified energy portfolio recommended by RCEA's strategic plan. Its biomass energy could be sourced from lower-emissions projects after the Humboldt Sawmill Company contract ends in 2031. The Integrated Resource Plan (IRP) process, a biennial planning exercise, was described. Staff will engage the Community Advisory Committee and community to offer input during the next 2-year cycle, and staff will incorporate the input under Board direction within regulatory boundaries. Aspects of the preferred portfolio were reviewed, including its share of new resource building, emissions, and criteria pollutants.

The Humboldt-Del Norte County Medical Society submitted written comment calling on the RCEA Board and the Humboldt County Board of Supervisors to move forward on the RePower Humboldt strategic plan to end biomass incineration and to commit to not expand, initiate or renew biomass combustion contracts.

Member of the public Diane Ryerson submitted written comment opposing biomass combustion for electricity due to greenhouse gas and particulate emissions.

Member of the public Wendy Ring asked RCEA to prioritize clean energy and health over local energy, stated her opposition to biomass energy in RCEA's portfolio due to significant climate and public health impacts, and stated that more climate beneficial uses of mill waste currently exist.

Dan Chandler of 350 Humboldt supported non-combustion biomass uses, opposed RCEA's contract extension with Humboldt Sawmill Company due to global warming impacts and expressed frustration that RCEA did not purchase existing solar power in lieu of extending the HSC contract. Mr. Chandler also submitted written comment for 350 Humboldt opposing an IRP submission that includes a biomass contract extension and supporting the prioritization of reducing greenhouse gas emissions over local and new renewable energy.

Member of the public Martha Walden opposes inclusion of biomass energy in RCEA's IRP preferred portfolio, does not consider biomass energy to be part of RCEA's promise to supply 100% clean and renewable energy by 2025, and stated that the public is looking to RCEA for maximum leadership to address the dire climate change emergency.

Member of the public Joanne McGarry asked RCEA to prioritize energy conservation while waiting for clean, renewable energy sources. Ms. McGarry opposed biomass energy and supported a local, decentralized energy system.

Nancy Ihara requested submission of portfolio two or four to the CPUC due to biomass energy's negative climate impacts and in the context of international global disasters.

A member of the public named Ellen opposed biomass' inclusion in the IRP portfolio and stated that it was misleading to market renewables while promoting an energy source that is as damaging as coal.

Member of the public Jesse Noell requested that RCEA analyze biomass' health and climate change costs and help avoid those costs by helping people and community groups install rooftop solar on parking lots and public buildings. Mr. Noell requested a thermometer graphic showing battery storage growth and reduction of health impacts at the Board's next meeting.

Member of the public Walt Paniak supported the least cost option portfolio, expressed concern that HSC's biomass power is too expensive, and supported applying savings from not purchasing biomass energy toward more microgrids for first responder locations in rural areas. Mr. Paniak also submitted written comment supporting the least cost option.

Vice Chair Curran closed the public comment period.

The directors asked for clarification about how local renewable energy purchases affect the actual electrons used locally. The directors discussed the importance of public education about the local, renewable energy by 2030 goal; the need to reconsider the strategic plan's emphasis on locally-sourced energy; and the importance of HSC's resource adequacy in meeting state mandates in a very competitive resource adequacy market. There was interest in receiving more information about biomass' local health impacts from the medical community and asking staff to plan a transition away from biomass combustion energy.

Staff noted that RCEA's contract with HSC gives the agency some leverage to request plant improvements. Changes in the energy market have made HSC's electricity and renewable energy products competitively priced. Staff clarified that RCEA is not financially subsidizing local biomass energy now.

M/S: Bohn, Bauer:

Adopt Resolution No. 2022-8 Approving the 2022 Integrated Resource Plan Portfolio.

Delegate Authority to the Executive Director to Approve the Final Integrated Resource Plan for Submission to the California Public Utilities Commission.

The motion passed with a unanimous roll call vote. Ayes: Avis, Bauer, Bohn, Curran, Losey, Schaefer, Tuttle, Wilson. Noes: None. Absent: None. Abstain: None. Non-Voting: Woo.

OLD BUSINESS

7.1. Racial Justice Plan Progress Update

Deputy Executive Director Verbeck recapped the reasons why RCEA drafted its Racial Justice Plan and progress made on drafting and implementing the plan.

The directors discussed the Yurok tribe's request to join RCEA in a non-voting capacity like the Humboldt Bay Municipal Water District's. The directors expressed appreciation for staff work on the plan.

There were no responses from the public to Vice Chair Curran's invitation for comment and the public comment period was closed.

M/S: Avis, Schaefer:

Accept Racial Justice Plan progress report.

Adopt Racial Justice Plan.

The motion passed with a unanimous roll call vote. Ayes: Avis, Bauer, Curran, Losey, Schaefer, Tuttle, Wilson, Woo. Noes: None. Absent: Bohn. Abstain: None.

NEW CCE BUSINESS

8.1 Rural Regional Energy Network Regulatory and Legal Services Agreement with PefferLegal

Demand-Side Management Director Kullmann reported on the proposed Rural REN, which will deliver energy efficiency programs more effectively to rural and hard-to-reach areas statewide, the program's extended approval process timeline and the need to change legal counsel during the project's development stage.

There were no responses from the public to Vice Chair Curran's invitation for comment and the public comment period was closed.

M/S: Woo, Losey: Authorize the Executive Director to execute a Legal Services Agreement with PefferLegal for RuralREN regulatory support and legal services through December 2023 for a not to exceed value of \$90,000, subject to sufficient budgetary allocations and pending RCEA General Counsel review.

The motion passed with a unanimous roll call vote. Ayes: Avis, Bauer, Curran, Losey, Schaefer, Tuttle, Wilson, Woo. Noes: None. Absent: Bohn. Abstain: None.

8.2 PG&E Southern Humboldt Transmission Issues (Information only.)

Executive Director Marshall provided background information on Humboldt County's electrical grid infrastructure and described the constriction issues facing areas in Southern Humboldt. Grid constrictions are limiting electrical load and economic growth in Fortuna and Rio Dell. The 43 new customers in areas served by PG&E's Garberville 1102 circuit including Phillipsville, Shelter Cove, Whitethorn, Briceland, Ettersberg, Honeydew and Petrolia, will not be able to increase electrical load without \$300 million in distribution system upgrades. Other parts of the local electrical grid are also unable to support increased loads. These areas include Fields Landing, southeast Eureka's Walnut Drive, Arcata up to Fickle Hill including Sunnybrae and Cal Poly Humboldt, areas served by the Hoopa substation including Weitchpec down the Klamath River to Pecwan and up to Soames Bar. Executive Director

Marshall described ways RCEA could deploy distributed resources such as battery storage in the Eel River Valley area to lessen constriction issues while PG&E upgrades infrastructure, and other ways to help provide service in remote affected areas. Transmission upgrades to export offshore wind may also improve transmission-level issues through parts of southern Humboldt County.

The directors expressed frustration and disappointment in PG&E and the infrastructure limitations and reiterated that the CPUC is responsible for ensuring that PG&E meets its obligations as a utility. Staff was encouraged to continue pressing PG&E for information through the CPUC.

There were no responses from the public to Vice Chair Curran's invitation for comment and the public comment period was closed.

8.3 Memorandum of Understanding with the California Fishermen's Resiliency Association

Executive Director Marshall described RCEA outreach efforts with local fishermen since offshore wind was identified as a Community Choice Energy goal in 2016. RCEA and the Humboldt Fishermen's Marketing Association signed a memorandum of understanding in 2018 to work together for the coexistence of offshore wind and the commercial fishery. RCEA provided the Association with a \$20,000 grant to hire a consultant who helped the group establish a nonprofit Fishermen's Resiliency Association to act as a single point of offshore wind negotiation with fishing port associations from San Francisco north to Crescent City. The Fishermen's Resiliency Association memorandum of understanding will allow RCEA to engage with these port associations through a single entity. The intention is to work with fishermen to engage with developers so the offshore wind and fishing industries can coexist.

The directors praised the organization and Board for the forethought to work closely with the local fishing community. A request was made for more direct wording on page three above the Governing Law section, replacing the word "necessarily." General Counsel Diamond agreed to address the language in question.

No member of the public commented on this report. Vice Chair Curran closed the comment period.

M/S: Losey, Woo: Approve a Memorandum of Understanding between the California Fishermen's Resiliency Association and RCEA with the addition of the requested language change, if any, by RCEA Legal Counsel, and authorize the Executive Director to execute the agreement contingent on final review and approval by RCEA Legal Counsel.

The motion passed with a unanimous roll call vote. Ayes: Avis, Bauer, Curran, Losey, Schaefer, Tuttle, Wilson, Woo. Noes: None. Absent: Bohn. Abstain: None.

STAFF REPORTS

9.1. Executive Director's Report

Executive Director Marshall described the December 6 Bureau of Ocean Energy Management offshore wind lease auction process. Developers may win up to one of five California lease areas, two of which are off the Humboldt County coastline. While RCEA and its partners are competing for a lease, RCEA will work with any successful developers locally.

The Humboldt Bay Harbor, Recreation and Conservation District selected Crowley Wind Services to develop the harbor infrastructure as part of a future west coast offshore wind hub. RCEA provided the Harbor District with \$50,000 to develop plans and pursue port development funding.

No member of the public commented on this report. Vice Chair Curran closed the comment period.

CLOSED SESSION

There was no public comment regarding closed session items:

- 11.1 Conference with real property negotiators pursuant to Government Code § 54956.8 in re: APNs 001-141-005 and 001-141-006; RCEA negotiator: Executive Director; Owner's negotiating party: Wells Commercial; Under negotiation: price and terms.
- 11.2 Public Employee Performance Evaluation, pursuant to Government Code Section 54957(b)(1): Executive Director.

The directors adjourned to closed session at 6:05 p.m. The Board reconvened from closed session at 6:28 p.m. Executive Director Marshall stated there was nothing to report from closed session and adjourned the meeting at 6:28 p.m.

Lori Taketa
Clerk of the Board

DRAFT



Redwood Region Economic Development Commission

REDWOOD REGION ECONOMIC DEVELOPMENT COMMISSION

Due to the Lack of Urgent Agenda Items and Lack of Quorum, The Regular Meeting of the RREDC Board of Directors Scheduled for November 28, 2022, 6:30pm, Has Been Cancelled.

The Redwood Region Economic Development Commission will, on request, make agendas available in appropriate alternative formats to persons with a disability, as required by Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and the federal rules and regulations adopted in implementation thereof. Individuals who need this agenda in an alternative format or who need a disability-related modification or accommodation in order to participate in the meeting should contact the Board Secretary at (707) 445-9651. Notification 48 hours prior to the meeting will enable the Commission to make reasonable arrangements for accommodation.