

CALIFORNIA COASTAL COMMISSION

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F8b

1-09-050

(HUMBOLDT COUNTY)

NOVEMBER 6, 2020

CORRESPONDANCE



COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL SERVICES DIVISION

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Proposed Revisions to Special Conditions

Application No.: 1-09-050
Project: Mad River Streambank Protection Project
Date: October 29, 2020

Humboldt County proposes the following revisions to the Special Conditions presented in the Coastal Commission Staff Report (dated 10/23/20):

1. Monitoring and Reporting Requirements.

- A. Monitoring Plan: Within 90 days after approval of this coastal development permit, the permittee shall submit a monitoring plan for the review and approval of the Executive Director that will include, at a minimum, the following elements:
- i. Identification of the qualifications of the person(s) who will be undertaking the monitoring, such as geologist, civil or geotechnical engineer or other;
 - ii. Monitoring locations for the riverbank and blufftop, either through line surveys or transects, such that measurements shall be taken every 100 feet for the length of the armoring and 200 feet both up and down stream of the armoring;
 - iii. Types of equipment that will be used to access and monitor the key aspects of the armoring, and locations of the riverbank and blufftop, for example, traditional survey equipment (~~total station~~), drone-mounted cameras, ~~RTK, or LiDAR~~, boat-mounted cameras, RTK, LiDAR, and such.
 - iv. Methods to ensure that riverbank and blufftop measurements will be replicated between monitoring events so that riverbank and blufftop positions can be compared and changes in position can be quantified to develop trends, such as establishment of fixed survey monument locations; and
 - v. Monitoring shall be undertaken every ten (10) years, and after any significant seismic event or major flood on the Mad River [seismic event of Richter Scale magnitude > 7.0 in the region, and/or flood event with a discharge rate of ~~42,500~~~~27,900~~ cubic ft./second (cfs) measured at the Lower Mad River USGS Station (Stn # 11481000) (i.e., a ~~five~~~~two~~-year recurrence interval)].
- B. Reporting: By May 1 of every tenth year for the life of the structure, and within ~~three~~~~four~~ months of any significant seismic or flooding event (as defined above), the permittee shall submit a monitoring report to the Executive Director. Inspection of the condition of the structure shall be performed by a licensed geologist, or civil or geotechnical engineer. Monitoring reports shall assess the condition and performance of the approved armoring structure and shall contain the following:

- i. An evaluation of the condition and performance of the approved armoring structure, including an assessment of whether any weathering or damage has occurred that could adversely impact future performance of the structure;
 - ii. All measurements taken in conformance with the approved monitoring plan;
 - iii. An analysis of erosion trends, amount of retreat and rate of retreat of the riverbank and blufftop edge based upon the measurements and in conformance with the approved monitoring plan;
 - iv. A description of any migration or movement of rock that has occurred on the site, with photographs if possible; and
 - v. Recommendations for repair, maintenance, modifications or other work to the armoring structure.
- C. If a monitoring report contains recommendations for repair, maintenance or other work, the permittee shall contact the Coastal Commission's North Coast District Office to determine whether such work requires a coastal development permit or amendment.

2. Maintenance Activities and Future Alterations. The permittee shall maintain the armoring structure for the life of the structure. The authorized structure may be maintained in its authorized as-built state, subject to the following:

- A. Routine Maintenance Required. Some adjustment and localized erosion of the riverbank is expected (and may enhance habitat complexity). The permittee shall remove or redeposit any debris, rock, or material that becomes dislodged as soon as possible after such displacement occurs, if that displacement has the potential to adversely impact future performance of the structure. The permittee shall contact the Coastal Commission's North Coast District Office immediately to determine whether such activities require a coastal development permit.

Basis for Requested Revisions:

The triggering flood event for monitoring is proposed to be changed to a five-year recurrence interval flow rather than two-year. The two-year flow was identified as the flow that was correlated with bluff erosion prior to constructing the bank stabilization structure. The structure significantly increased the erosion resistance of the streambank. In the 12 years since construction, the structure has withstood two five-year flows (2013, 2016), a four-year flow (2019), and two two-year flows (2011, 2017) without any observed displacement.

Four months is a more realistic timeframe for mobilizing a survey crew, collecting and processing the data, retaining professionals to perform inspections as appropriate, and preparing a report following a significant seismic or flood event.

Revisions are proposed to clarify that maintenance is not required for any displacement, but rather for significant displacement that could reduce the effectiveness of the structure.

From: [Janet Eidsness](#)
To: [Kraemer, Melissa@Coastal](mailto:Kraemer_Melissa@Coastal)
Subject: Item F8b for App 1-09-050, Coastal Commission agenda for hearing on 11/06/20
Date: Wednesday, October 28, 2020 12:26:18 PM
Attachments: [Coastal Comm 6Nov20 agenda.doc](#)

Dear Melissa and my THPO colleagues Erika and Ted:

Thank you for incorporating my recommended protection measure (Inadvertent Archaeological Discovery and need for tribal consultation before any work) along the east bank of Mad River at Verwer Court-School Road, where Loud (1918) mapped a Wiyot village.

I checked your staff report and copied relevant portions for my records and to share with Wiyot and Bear River THPOs. All looks good to me, thanks!

JANET P. EIDSNESS, M.A. Tribal Historic Preservation Officer (THPO) for Blue Lake Rancheria HOME: 2488 Sommenfelt Road, Bayside, CA 95524 (707) 825-0460 (VOICE), (530) 623-0663 (CELL) jpeidsness@yahoo.com

From: [Ted Hernandez](#)
To: [Janet Eidsness](#); [Kraemer, Melissa@Coastal](#)
Cc: [Erika Cooper](#)
Subject: RE: Item F8b for App 1-09-050, Coastal Commission agenda for hearing on 11/06/20
Date: Thursday, October 29, 2020 12:26:33 PM
Attachments: [image003.png](#)

Thank you looks great.

“Be the change that you wish to see in the world.”
– Mahatma Gandhi

Hou', Rra'dutwas (thank you, respectfully),

Ted Hernandez

Wiyot Chairman/Cultural Director

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From: Janet Eidsness <jpeidsness@yahoo.com>
Sent: Thursday, October 29, 2020 11:30 AM
To: Melissa Kraemer <melissa.kraemer@coastal.ca.gov>
Cc: Erika Cooper <erikacooper@brb-nsn.gov>; Ted Hernandez <ted@wiyot.us>
Subject: Re: Item F8b for App 1-09-050, Coastal Commission agenda for hearing on 11/06/20

Ted and Erika, wanted to share this with you

JANET P. EIDSNESS, M.A. Tribal Historic Preservation Officer (THPO) for Blue Lake Rancheria HOME: 2488 Sonnenfelt Road, Bayside, CA 95524 (707) 825-0460 (VOICE), (530) 623-0663 (CELL) jpeidsness@yahoo.com

On Wednesday, October 28, 2020, 12:25:49 PM PDT, Janet Eidsness <jpeidsness@yahoo.com> wrote: