May 20, 2022

The Honorable Bob Wieckowski
Chair, Senate Budget Subcommittee #2
State Capitol
Sacramento, CA 95814

The Honorable Richard Bloom
Chair, Assembly Budget Subcommittee #3
State Capitol
Sacramento, CA 95814

The Honorable Nancy Skinner
Chair, Senate Budget Committee
State Capitol
Sacramento, CA 95814

The Honorable Phil Ting
Chair, Assembly Budget Committee
State Capitol
Sacramento, CA 95814

RE: Strong Support for Proposed Beaver Restoration program at the California Department of Fish and Wildlife (BCP 3600-071-BCP-2022-MR)

Dear Chairs Wieckowski, Bloom, Skinner and Ting,

...
As long-time proponents and practitioners of beaver and process-based restoration strategies, we are delighted to support the transformational proposal to create a new Beaver Restoration program at the California Department of Fish and Wildlife (CDFW) in the Governor’s May Revision. The proposed program’s ambitions and investments recognize that beavers can and do enhance conservation of existing public lands, accelerate regionally led conservation, expand and accelerate environmental restoration, and strengthen coordination among governments and key partners.

The North American Beaver (*Castor canadensis*) is native to California and was once prevalent in watersheds across the state. The scientific literature indicates that beaver dams and associated ponds help mitigate the impacts of climate change, drought and wildfire through sequestering carbon, increasing surface and groundwater storage, attenuating flood waters and creating green “ribbons of fire-resistant riparian corridor” that serve as critical “refugia” for species unable to escape fire.

Beaver dams improve water quality, repair eroded channels, reconnect streams to their floodplains and create and maintain wetland and riparian habitat. Beaver create habitat complexity and diversity in otherwise simplified stream systems and can prolong critical summer streamflow or provide perennial flow to degraded urban and wildland streams that would otherwise run dry. Beaver dams, canals, burrows and food caches greatly expand wetland and wet meadow habitats, create refugia from predation and high flows and provide many other ecosystem benefits to imperiled fish, birds, and amphibians.

The legacy of trapping beaver nearly to extinction and systematically removing wood from most California streams has resulted in “structurally starved” riverscapes. Beaver and process-based restoration work to protect and enhance active beaver dam complexes and where beaver are absent place hand-built instream structures to encourage beaver’s return and mimic the effect of historic large wood accumulation and beaver dam density. Working with beaver and natural processes to carry out the restoration, this “letting the system do the work,” low-tech, low-disturbance approach results in more ecologically resilient and functional riverscapes, with progressively less human intervention needed over time.

For the past decade, native California tribes, non-governmental organizations, private landowners, ranchers, scientists, restoration practitioners, academics, corporations and State and Federal agencies have been working in partnership to successfully implement beaver and process-based restoration techniques to restore ecological function to California’s watersheds and increase community resiliency to climate change. These cost-effective, high-impact, low disturbance techniques align well with the Traditional Environmental Knowledge practices of native California tribal partners such as the Maidu Summit Consortium and the Tule River Tribe who are currently working to return beaver to their ancestral homelands.

To date these beaver and process-based restoration treatments have been implemented with great success in many of California forests (Taylor Creek/South Lake Tahoe, Tule River Reservation, Klamath River, Trinity River), developed lands (cities of El Dorado Hills, Martinez, Napa, Sonoma), wetlands (Sutter National Wildlife Refuge, Child’s Meadow, Humbug Valley), grazed grasslands (Doty Ravine/Lincoln), the Great Basin (Smoke Creek/Shinn Ranch, Alaska Canyon/Bare Ranch) and many other locations across California and the arid west.

Beaver and process-based restoration provide meaningful climate smart jobs, enhance water quality and security and reduce climate risks to vulnerable communities. Given their low cost per unit, low-tech design requirements and ability to be efficiently permitted through California’s Cutting Green Tape
Initiative, these practices have the potential to greatly increase the pace and scale of climate smart restoration across the state. Beaver and process-based restoration greatly accelerate stream, wetland and mountain meadow restoration and thus would be an enormous asset towards achieving California’s 30x30, climate smart, natural and working lands, and drought resiliency goals.

We applaud the Governor for working hard to center nature-based solutions that protect California’s biodiversity and builds a more resilient future. Many of us who are successfully implementing beaver and process-based restoration in partnership with landowners, conservationists, agencies, and native California tribes welcome the opportunity to provide resources and support towards integrating these highly effective practices and working collaboratively with the CDFW team hired to run this exciting program.

Integrating beaver and process-based restoration into this effort will significantly increase the cost-effectiveness, pace, and scale of restoring critical habitats across California.

Please contact Brock Dolman (brock@oaec.org), Kate Lundquist (kate@oaec.org) or Jennifer Fearing (jennifer@fearlessadvocacy.com) with the Occidental Arts & Ecology Center to engage further. Thank you.

Sincerely,

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* Signing as an individual, not expressing or representing the positions of employer or organization. Title and affiliation are for identification only.

cc:  Members, Senate and Assembly Budget Committees  
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Chuck Bonham, Director, California Department of Fish and Wildlife  
Sergio Aguilar, California Department of Finance  
Jennifer Fearing, Fearless Advocacy

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12 Parish, M. and J. Garwood. 2015. Distribution of Juvenile Salmonids and Seasonally Available Aquatic Habitats within the Lower Smith River Basin and Estuary, Del Norte County, California. DOI:10.13140/RG.2.1.1220.3603