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CLERK OF THE BOARD DIVISION OF THE BOARD OF SUPERVISORS' OFFICE

COUNTY OF HUMBOLDT

825 FIFTH STREET EUREKA, CALIF. 95501-1153

PHONE (707) 476-2384; 445-7299 (FAX)

APPLICATION TO SERVE ON THE HUMBOLDT COUNTY

PLANNING COMMISSION

APPLICANT NAME:	Lorna McFar	Lorna McFarlane		
MAILING ADDRESS:				
	McKinlleyville	e, Ca 955519	<u> </u>	<u> </u>
TELEPHONE: Home:	rk:	F	⁻ ax:	
E-MAIL ADDRESS:	lorna.mcfarlane@dot.ca.gov			·
OCCUPATION:	Senior Environmental Scie	ntist		
PERSONAL REFEREN	NCES: an	PHONE:		
(2) Kevin Church		PHONE:		
PRIOR ADVISORY BO	OARD OR BOARD OF DIREC	TORS EXPERIENCE	? X NO	YES

PLEASE WRITE A BRIEF STATEMENT DESCRIBING WHY YOU'RE INTERESTED IN SERVING ON THE PLANNING COMMISSION.

I would like to serve on the Humboldt County Planning Commission as I have strong background in transportation policy, environmental management, and climate change science. In my current position with Caltrans, I have been working at the interface of transportation needs, local government goals and future wishes. I have found this portion of my work to be particularly interesting and I think I could play a critical role in helping Humboldt County develop future sustainable plans that will both allow for the economic growth of our area while simultaneously preserving the natural resources and characteristic feel of our beloved County. Our County faces many pressures at the moment including climate change, a housing crisis, a shortage of some critical services, and potential for significant population and economic growth. While these pressures could pose significant threats to our community, I truly believe that if managed correctly our County stands to prosper immensely

PLEASE ATTACH A CURRENT RESUME.

DATE: 01/31/24

SIGNATURE: Lorna Mcfarlanc

I declare under penalty of perjury under the laws of the State of California that the above is true and correct

SUBMIT THIS APPLICATION TO: HUMBOLDT COUNTY PLANNING COMMISSION, Clerk of the Board, 825 Fifth Street, Suite 111, Eureka, CA 95501-1153.

DATE TO SUPERVISOR DATE APPROVED NOT APPROVED

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– Mobile [,]	McKinleyville, CA 95519	lorna.mcfarlane@dot.ca.gov linkedin.com/in/lorna-mcfarlane-42a3a443		
Education	· · · · · · · · · · · · · · · · · · ·			
2014–16	 M.S., Biology; California State University, Northridge (CSUN) Thesis: Predicting the metabolic response of Zebrasoma scopas (Brush tail tang) to warming waters Advisor: Dr. Larry G. Allen 			
2008–12	B.A., Biology; Minor, Environmental Stud Thesis: Most prevalent effects of fronta Advisor: Dr. Douglas Shedd	ies, <i>Randolph College, Lynchburg, VA</i> . Il lobe damage from traumatic brain injury		
Current	Senior Environmental Scientist, Climate Cha CA Department of Transportation, Eureka, O Planning section unit. Work to incorporat programmed projects. Identify vulnerable as	CA the climate adaptation strategies into current and future sets, work with all functional units to design a solution thent is using the most up to date climate science and		
2023 C.	 North Region Environmental and the local C with projects in the Coastal Zone. Examples Organizing and completing all climat documents based on HQ guidance Present projects (active permit applic Meet with Commissioners for ex-par policy meetings Overseeing mitigation bank creation until a mitigation supervisor was hire Working with multiple resource agen mitigation, and to create an early mit Facilitating at least monthly coordina Commission Staff Supervision of CA Sea Grant Fellow NOAA and the US EPA 	A nit. Worked as primary contact between Caltrans Coastal Commission office, and lead worker to staff of workload include: te change review for project environmental sations, project updates) to the Coastal Commission te project updates and to facilitate Caltrans with contractor and resource agencies for one year d ucies to address legacy outstanding eelgrass igation opportunity for new projects tion meetings with, and project updates to Coastal Policy. Past Fellows now work for use when working on coastal projects		
2023	Marine Biology Professor, Pitzer College Stu Taught (2019, 2020, 2022, 2023) or Assisted course. Work included assisting students with pasic experimental design, in water field sup-	Dr. Baduini (2017) in a field marine biology h individual research projects including		

daily lectures, assisting students with questions outside of lecture, giving graduate school and careers outside of academia advice, and helping to ensure a safe, positive and fun experience

- 2019 Associate Environmental Planner, Water Quality Specialist
- 2020 CA Department of Transportation, Eureka, CA

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Environmental Engineering Unit. This was an in-place promotion and my workload built on my previous workload as an environmental planner. Additional tasks included:

- Lead biologist/coordinator on securing California Department of Fish and Wildlife (CDFW) and Coastal Commission Approval for an eelgrass study done through the CA Sea Grant as acceptable mitigation for the Humboldt Bay Bridges project
- Working at a Senior level to address the special conditions in the Eureka-Arcata Corridor Coastal Development permit including overseeing a Senior Humboldt State University (HSU) Practicum class to create a "State of Sea Level Rise Planning in Humboldt Bay" report; recruiting a graduate student from the HSU geology department to create a vulnerability analysis
- Worked with CDFW and the North Coast Regional Water Quality Control Board (NCRWQB) to purchase and preserve a fen near Highway 36 as mitigation
- The creation of a CA Sea Gant Fellowship within Caltrans including management approval, application and contract submittal and management, and supervising the Fellow to ensure appropriate trainings and a full workload.
- Obtained Small Habitat Restoration Water Quality Certifications for fish passage
- Submitted notices of discharges to the North Coast Regional Waterboards
- Submitted draft permit language for the Caltrans NPDES permit to the State Water Resources Control Board
- Presenting at the International Conference on Ecology and Transportation on the benefits of wildfire fuel reduction to water quality
- Presenting at the CDFW Conservation Lecture Series
- Interviewing and hiring a Student Assistant

2018 Environmental Planner, CA Department of Transportation, Eureka, CA.

Environmental Engineering Unit. Water quality specialist working on stormwater quality issues from avoidance to mitigation for projects with water quality impacts. Additional work on 401 permits, eelgrass mitigation, unit workload and project management, fuel reduction crediting, fish passage, and talent recruitment through California Sea Grant.

2017 – Environmental Scientist, CA State Water Resources Control Board, Sacramento, CA.
 2018 Standards Unit 1. Worked as the lead staff on the proposed Aquatic Toxicity Provisions to be adopted 2019. Duties include consultation with U.S. EPA and stakeholders, CEQA analysis, project management, staff report writing, facilitating public outreach and briefing management and board members. Additional work on:

- Technical advisory panel for ballast water treatment in coordination with the State Lands Commission
- Renewal of the U.S.EPA Vessel General Permit
- Marine finfish aquaculture permit in coordination with CDFW
- Grant review and scoring
- Administrative Record and response to comments for the Mercury Amendments. Resulted in an award from the Board after adoption.
- Authored a white paper— Regional Method Comparison on Pyrethroid Use

- 2017 <u>CA. Sea Grant Fellow</u>, *State Water Resources Control Board*, *Sacramento*, *CA* Ocean Unit. Worked as project coordinator and environmental scientist on Mercury Amendments, and assisted in the Board adoption process of the Mercury Policy.
- 2016 <u>Reef Ecology Lecturer and Dive Master</u>, *Operation Wallacea Sodwana Bay, South Africa* Lead daily dives and lectures for college students on field ecology courses.
- 2015-16 <u>Graduate Assistant and Teaching Associate</u>, <u>CSUN</u>, <u>CA</u>. CSUN courses: Life in the Sea, Intro. Biology Lab, Microbiology, Animal Physiology (2015-16).
- 2013–14 <u>Laboratory Technician</u>, *University of Southern California, Los Angeles, CA* Cared for and bred transgenic zebrafish including: injecting embryos, cryopreservation, laboratory coordination, maintenance of records and equipment, water quality maintenance.

Professional Presentations

McFarlane, L. J., Arevalo A.A. 2019. Wildfires and Water Quality- Caltrans efforts to reduce the frequency and severity of wildfires by partnering with agencies like the Waterboards, to also meet our responsibility related to impaired water bodies. *CDFW Conservation Lecture Series, Sacramento, CA* [oral]

McFarlane, L. J., Arevalo A.A. 2019. Striking a balance between wildfires and water quality with state agency collaboration. *International Conference on Road Ecology*, *Sacramento*, *CA* [oral]

McFarlane, L. J., R. E. Espinoza, W. A. Bennett, and L. G. Allen. 2015. It's getting hot in here: the effects of warming waters on the metabolic rates of Brushtail Tang. *Western Society of Naturalists, Sacramento, CA* [poster]

McFarlane, L. J. 2014. The effects of sea bird guano on primary productively of local kelp, *Eisenia* arborea. Wrigley Institute for Environmental Studies, Santa Catalina Island, CA [oral]

McFarlane, L. J., Barkman, M. A, 2011. Do Flamingo Tongue, *Cyphoma gibbosum*, exhibit location preface on Caribbean coral? *Gerace Research Center, San Salvador, Bahamas* [oral]

Certifications and Trainings

Water Quality and Biological Resources

Environmental Academy, Design Construction Maintenance, Improving Coastal Resiliency through Vulnerability Assessments Intro and Advanced CEQA, ArcGIS Esri Technical Certification (in progress), Foothill Yellow Legged Frog Surveying, Point Arena Mountain Beaver Surveying, Wetland Delineation, Measuring the Health of Streams and Rivers in CA, College of Bioassessment Field Course, Toxicity Data Analysis, Agrochemical Transport and Fate in Surface Water and Ground Water

Policy

U.S.EPA NPDES Permit Writers Course, U.S. EPA NPDES Whole Effluent Toxicity Online Training, Cal EPA Aquatic Toxicity Training, Understanding the Sacramento San Joaquin Delta—An Overview of Delta Governance and Regulation, Basic TMDL Development, Adoption and Approval, Water Quality Standards and Water Quality Control Plans

Other

PADI Dive Master and Rescue Diver, American Heart Association CPR and AED for Health Care Providers, Divers Alert Network O₂ Administration, California Boating Safety, Emergency Medical Technician, Professional Writing, Advanced Meeting Facilitation Awards and Honors

2017 Outstanding Achievement Award, CA State Water Resources Control Board, Cal EPA

- 2016 Sea Grant Knauss and State Fellowship Finalist, CA Sea Grant
- 2012 TriBeta National Biology Honor Society
- 2009–12 Excellent Writer Award, *Randolph College*
- 2011-present Girl Scout Gold Award, Lifetime Member

Additional Work History

- 2016 <u>Science Writer</u>, *Myletter.to*, *Remote* Contributing writer to a website which assists the public contacting State and Federal representatives.
 2016 Dive Master and Sales, *FacDive, Culture City, CA*
- 2016 <u>Dive Master and Sales</u>, *EcoDive*, *Culver City*, *CA* Lead divers on Southern California dives and work in diving equipment sales.
- 2012–13 <u>Veterinary Technician</u>, Advanced Veterinary Care Center, Lawndale, CA Treated emergency and specialty patients in oncology, cardiology, and internal medicine
- 2012 <u>Wildlife Care/Veterinary Intern</u>, *California Wildlife Center*, *Calabasas*, *CA* Treated and rehabilitated native wildlife ranging from raptors to coyotes.
- 2010 <u>Equine Veterinary Intern</u>, *Allaroud Equine Veterinary Care, Bedford, VA* Assisted with emergency and routine medical care, and office management

Research Experience

- 2016 Marine Ecology and Fish Physiology, CSUN, CA. and Indonesia
- 2014 Marine Ecology Research, CSUN, Catalina Island, CA
- 2014 Sea Bird Ecology Research, CSUN, Catalina Island, CA
- 2012 Microbiology Lab Assistant, Randolph College, VA.
- 2011 Tropical Ecology Field Assistant, Pitzer College Firestone Reserve, Costa Rica
- 2011 Ecology Lab Assistant, Randolph College

<u>References</u>

Brandon Larsen- Deputy Director of Planning and Local Assistance, District 1, California Department of Transportation (Caltrans)

brandon.larsen@dot.ca.gov

Kevin Church- Retired Senior Transportation Engineer, California Department of Transportation (Caltrans) Current engineer, Ghirardelli Associates kchurch@ghirardelliassoc.com

- Dr. Debra Denton- Environmental Scientist, U.S.EPA Region 9 debra.denton@waterboards.ca.gov
- Zane Poulson-Senior Environmental Scientist, CA State Water Resources Control Board zane.poulson@waterboards.ca.gov
- Dr. Robert Espinoza- Professor and Special Assistant to the Dean, CSUN robert.e.espinoza@csun.edu