

Wiyot Tribe

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## MLPA North Coast Regional Stakeholder Group Nomination

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The Wiyot Tribe respectfully submits the nomination of its Environmental Director, Stephen Kullmann, to the MLPA North Coast Regional Stakeholder Group (NCRSG).

### **Contact information:**

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Environmental Director  
Wiyot Tribe  
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### **Criteria for Selection:**

Stephen Kullmann is a resident of the North Coast Region, residing in Blue Lake, CA, and a graduate of Humboldt State University with a Masters of Science in Environmental Systems. As the Environmental Director for the Wiyot Tribe, Mr. Kullmann will continue to regularly report to the Wiyot Tribal community and council on MLPA developments and activities and represent our concerns and positions to the MLPA, while maintaining a strong environmental perspective.

Mr. Kullmann is a member of the Harbor Safety Committee of the Humboldt Bay Area, Humboldt Bay Management Plan Advisory Committee, and Humboldt Bay Dioxin Workgroup – Technical Subgroup, as well as a participant on other environmental projects throughout the North Coast Region. He is also a former Yurok Tribal employee, and has worked with other North Coast Tribes including the Blue Lake Rancheria and Karuk Tribe before assuming his position with the Wiyot Tribe. He also will bring his expertise in local energy issues and renewable energy to the group. He meets all of the desired criteria including an ability to express fundamental interests (as opposed to fixed positions), capability of working collaboratively, ability to communicate with represented stakeholders through regular meetings and newsletters, and a commitment to completing all aspects of the charge of the regional stakeholder group.

Mr. Kullmann has been attending and participating in MLPA meetings and workshops since October 2009 and has been a participant in the North Coast Tribal Coalition and Tri-County MLPA workgroup facilitated by the Humboldt Bay Harbor District. He has the willingness and approval of the Wiyot Tribe to commit time for full participation.

Mr. Kullmann will be representing the interests of the Wiyot Tribe, one of the federally-recognized sovereign Native Tribes in the North Coast Study Region. Wiyot people have lived in the Humboldt Bay region for thousands of years. The North Coast of California is rich with abundant terrestrial, reverine, estuarine, and marine resources. Wiyot people lived in permanent villages along the waterways which also served as travel and trade routes. Seasonal camps were made on the tribal lands and prairies, and mountainous regions provided berries, acorns, pine nuts, wild game, and basketry materials. Wiyot people actively managed their resources, burning for open grasslands, cultivating edible bulbs, and following strict hunting and fishing protocols.

The Wiyot Tribe's Environmental Department is active in protecting and restoring habitat in Wiyot Lands and Waters and coordinating with local, regional, and federal environmental groups. Current projects include:

- Water monitoring on Humboldt Bay, Mad River, Eel River, and area wetlands;
- Plant and wildlife surveys;
- Pollution control;
- Invasive plant eradication and native plant restoration; and
- Contamination remediation on Indian Island and Humboldt Bay.

Wiyot ancestral territory extended from Little River near Trinidad to Bear River Ridge near Scotia, and east to Berry Summit and Chalk Mountain. The region supported in a pre contact Wiyot population estimated at between 1500 and 2000. However this population declined to approximately 200 after 1860, the 100 by 1910, the result of disease, resource depletion, slavery, displacement, and genocide.

The Wiyot Tribe currently has over 600 enrolled citizens, living on tribally owned lands and surrounding communities. Current tribally-owned lands and adjacent waterways include the Table Bluff Reservation along southern Humboldt Bay, the Old Reservation, which abuts McNulty Slough, Indian Island in Humboldt Bay, and Cock Robin Island in the Eel River Estuary. The Wiyot have used and managed resources for sustenance, livelihood, and ceremonial purposes along the coastline, river mouths, estuaries, sloughs, and Humboldt Bay for time immemorial, and have been an integral part of the coastal ecology.

Mr. Kullmann will report back to the community through regular reports to the Tribal Council and Community at the bi-monthly Business Council Meetings, newsletter articles in the monthly newsletters, and any additional reports and presentations as necessary. Furthermore, the Tribe has appointed an MLPA workgroup comprised of Tribal Council members and Tribal citizens to advise and report on MLPA activity.

In addition to Mr. Kullmann's own knowledge and expertise on environmental systems, he has the resources of the tribal environmental and cultural departments to draw on, as well as his many contacts at Humboldt State University and in the greater North Coast environmental community. His resume is attached to this nomination.

Cawoks,

Gail Green  
Wiyot Tribal Chair

## Stephen Kullmann

PO Box 1123, Blue Lake, CA 95525  
707-496-6373 swkullmann@gmail.com

### Education and Training:

#### **Humboldt State University**, Arcata, CA

Environmental Systems M.S.; *Energy, Environment, and Society* option. Masters program in the Environmental Resources Engineering department. Completed an additional 51 units of coursework toward Environmental Resources Engineering B.S. including Engineering Design, Computational Methods, Statics, Dynamics, and Thermodynamics. 2009

**Autodesk Training Center:** College of the Redwoods, Eureka, Ca  
AutoCAD 2008 Level 1 Essentials and Advanced Certificate, 2008

#### **Schatz Energy Research Center:** Arcata, CA

Renewable Energy System Design, Installation, Maintenance, and Repair Certificate, 2006  
Residential Energy Efficiency Auditing Certificate, 2006

#### **National Tooling & Machining Association:** Fremont, CA

Machining and CNC Machining Certificate, 1998

#### **Rutgers University**, New Brunswick, NJ

B.A. English/Creative Writing, 1989

### Work Experience:

#### **Environmental Director**

Wiyot Tribe

*September 2009 – present*

*Loleta, CA*

- Direct work of Environmental Department, manage budgets, and supervise staff.
- Represent Tribe in environmental areas to community and outside agencies.
- Manage existing grants and write proposals for new funds.
- Run environmental education program for Tribal youth.

#### **Technical Analyst**

Winzler & Kelly

*November 2007 – January 2009*

*Eureka, CA*

- Completed technical engineering analyses, technical reports, proposals, and marketing material.
- Conducted field work including energy audits, site assessments, and community presentations.
- Worked on energy, water resource, transportation, and environmental projects.

#### **Graduate Research Assistant**

Schatz Energy Research Center

*September 2005 – December 2007*

*Arcata, CA*

- Researched and tested renewable energy technologies and analyzed data.
- Tested and analyzed battery-based LED lighting technologies.
- Assisted in developing lab projects and equipment for classes.

#### **Energy Technician**

Yurok Tribe

*May 2006 – October 2006*

*Klamath, CA*

- Conducted energy audits of households and Tribal facilities on Yurok Reservation.
- Assessed and repaired existing renewable energy systems and evaluated potential for new systems.
- Assisted with the creation of energy education, outreach, and media campaigns.

## Projects, Presentations, and Activities:

### **Karuk Tribe First Steps Project toward Renewable Energy and Energy Efficiency on Tribal Lands:**

Conducted energy demand assessments of Tribal housing and administrative buildings, analyses of energy-use reduction strategies, and preliminary renewable energy suitability including solar electric, solar thermal, wind, biomass, and micro-hydro on Karuk Tribal lands. Presented findings at Department of Energy Tribal Energy Conference in Denver, CO, November 2008.

**Blue Lake Rancheria Energy Assessment:** Completed energy audit and demand assessment of Tribal Administration Building and suggested energy use reduction strategies.

**Fort Bidwell Water Quantification Study:** Completed assessment of water demand and resources on the Fort Bidwell Indian Reservation, including potential impacts of global climate change and suitability of geothermal energy resource use.

**Human Capacity Building in Energy Efficiency and Renewable Energy System Maintenance for the Yurok Tribe:** Conducted energy audits, trained staff in energy-efficiency and conservation, conducted troubleshooting and maintenance of existing renewable energy systems and assessed feasibility for new systems on the Yurok Reservation.

**Specific Energy Yield of Low-Power Amorphous Silicon and Crystalline Silicon Photovoltaic Modules in a Simulated Off-Grid, Battery-Based System:** Completed a 12-month project testing real-world energy yield of PV technologies under various light, temperature, and load conditions; resulting thesis project report completed April 2009.

**Residential Grid-Connected PV System Design and Installation:** Designed and helped install residential 1.6 kW PV system in McKinleyville, CA. Completed all necessary rebate and grid-intertie paperwork.

**Siskiyou Field Institute:** Taught community members strategies for reducing energy consumption and methods for sizing and siting wind, solar, and micro-hydro systems at two-day Renewable Energy/Energy Efficiency course at Deer Creek Center in Selma, OR.

**An Environmental and Economic Analysis of Refrigerator Replacement:** Presented report discussing the relative benefits of replacing old appliances with newer, efficient ones considering the embedded energy required for manufacture and transportation at the North Coast Regional Energy Alternatives Conference in Arcata, CA; June 23, 2007.

**Renewable Energy Student Union:** Member of student group promoting renewable energy education and projects in the Environmental Engineering Resources department.

**Schatz Energy Research Center:** Volunteer Docent conducting tours of research lab and bringing renewable energy and energy efficiency demonstrations and instruction to events and classrooms.

**National Hydrogen Association Design Contest:** Participated on Grand-Prize winning team in National Hydrogen Association Student Design Competition for a design of a Hydrogen Power Park. The proposed power park design utilized landfill gas from a local landfill to produce heat, electricity, and hydrogen vehicle fuel. Presented design at NHA Conference in Washington DC, Chevron headquarters in San Ramon, CA, and the California Hydrogen Business Council in Sacramento, CA. The project resulted in the construction of a hydrogen fueling station on the Humboldt State University campus. Awarded a Certificate of Special Congressional Recognition in 2005 by Congressman Mike Thompson.