JURISDICTIONAL DELINEATION OF WATERS OF THE U.S., INCLUDING WETLANDS ON THE CALIFORNIA COAST: LEGAL AND ECOLOGICAL PROTOCOLS FOR DIVERSE AND CHANGING LANDSCAPES



A Training Course Offered By: The Elkhorn Slough Coastal Training Program

October 25 - 29, 2010

Monterey Bay Aquarium Research Institute

Elkhorn Slough National Estuarine Research Reserve

Moss Landing area

Northern Monterey County, California



I. Introduction And Objectives

The Elkhorn Slough National Estuarine Research Reserve's *Coastal Training Program* is pleased to announce a course:

"Jurisdictional Delineation of Waters of the U.S., Including Wetlands On the California Coast: Legal and Ecological Protocols For Diverse and Changing Landscapes"

Individuals from the private sector, all federal, state, regional, county and municipal agencies, universities and private non-profit organizations are encouraged to attend and will be accepted on a first-come-first-served basis. Total course enrollment will be limited to 45 individuals. Tuition for the course will be \$1400. In addition to tuition, all participants will be expected to pay for their travel and per diem expenses. Further details concerning tuition, lodging, and course logistics are explained below.

The chief objective of the training will be to provide participants with a comprehensive, lecture and field-based introduction to delineation of Waters of the United States, including wetlands. The technical foundations for the course will be the 1987 "Corps Of Engineers Wetlands Delineation Manual," the "Regional Supplement to the Corps: Arid West Region," and the "Regional Supplement to the Corps Manual: Western Mountains, Valleys, and Coast Region." In order to accomplish the overall objective, specific segments of the course agenda will focus on:

- (a) Recognition and description of hydrologic indicators of wetland conditions on California's central coast
- (b) Identification and characterization of hydric soils and soil-forming processes characteristic to wetland sites in central, coastal California
- (c) Identification and characterization of hydrophytic plant communities typical to wetlands on California's central coast
- (d) Synthesis of hydrologic, soils, and plant community information for jurisdictional delineation of relatively pristine as well as highly degraded wetlands on California's central coast consistent with (1) the 1987 Corps Of Engineers Wetlands Delineation Manual, (2) the 1994 National Food Security Act Manual, and (3) current federal, state (including California Coastal Commission) and local agency policies and operating procedures.
- (e) Field and administrative techniques for (1) documentation and/or presentation of delineations of Waters of the U.S., including wetlands, and (2) recognition and documentation of non-compliance with federal, California and local

waters/wetlands protection statutes.

Throughout the course, lectures and classroom exercises will be combined with field trips to several different types of waters/wetland ecosystems in the vicinity of northern Monterey and southern Santa Cruz counties. Field exercises and discussions during the course will focus on a range of waters/wetland types that are typical to the Central Coast region of California. Field exercises are designed to vary in difficulty from the most basic to the most difficult jurisdictional calls. Stops will include estuarine tidal and freshwater marshes, riparian forests, vernal pools, seasonally wet meadows, slope wetlands, filled wetlands and other highly degraded sites.

Participants will work closely with instructors to develop state-of-the-art knowledge of how to recognize and accurately map the geographic extent of Waters of the U.S, including wetlands. In particular, the course will focus on how to use the 1987 Corps Of Engineers methodology for identifying and delineating jurisdictional wetlands and relationships between the 1987 Corps Manual and the "Regional Supplement to the Corps: Arid West Region," and the "Regional Supplement to the Corps Manual: Western Mountains, Valleys, and Coast Region." Given the moderate size of the class (45 students total), and the collective expertise of the instructor team, participants will have a rare opportunity to hone existing wetland delineation skills and to develop and apply new skills in a course that is specifically tailored for wetlands typical to California's central coast. This is a field based course. In this regard, a "hands-on" approach will be emphasized during all phases of lecture and field instruction.

Upon successful completion of the course and requisite lecture and field examinations, participants will receive *NWSTC CERTIFICATION* that documents 40+ hours of training in the use of the *1987 Corps of Engineers Wetlands Delineation Manual, the Regional Supplement to the Corps: Arid West Region,* and the *Regional Supplement to the Corps Manual: Western Mountains, Valleys, and Coast Region.*

II. Team Of Instructors

Instructor team members are nationally recognized scientists and wetland regulatory experts with broad experience in wetland community and ecosystem ecology, hydrology, soils science, botany, wetlands protection, enforcement and compliance, functional and cumulative impact assessment in wetlands, and mitigation of impacts to wetlands. All instructors have worked extensively throughout the American West, and specifically in California for a significant part of their careers. Collectively, they have unparalleled experience in research, teaching, applied science and regulation of waters/wetlands in the West. A listing of Instructors follows:

Peggy L. Fiedler, Ph.D., PWS

Consulting Botanist and Conservation Ecologist

Plant taxonomy; wetland community ecology Plant population biology; protection and management of rare vascular plants

Lyndon C. Lee, Ph.D., PWS

Principal Ecologist & President L.C. Lee & Associates, Inc.

Lead Instructor; Ecosystem ecology; Federal delineation methodologies Federal, State, and Local Regulatory Programs Assessment of impacts to wetlands

Andrew D. Harley, Ph.D. Principal R Squared Incorporated

Soil science, geochemistry, hydrology and hydrogeology

Derek Booth, Ph.D. Senior Geologist and President Stillwater Sciences

Geology, geomorphology, hydrology, soil science, watershed management

Grey F. Hayes, Ph.D

Coordinator Elkhorn Slough National Estuarine Research Reserve Coastal Training Program

Restoration ecology, botany, wetlands conservation

III. Course Registration Information

Registration for the course will be coordinated by Dr. Grey Hayes, Coordinator, Coastal Training Program, Elkhorn Slough National Estuarine Research Reserve, 1700 Elkhorn Road, Watsonville, CA 95076, phone: (831) 274-8700, fax: (831) 728-1056, E-mail grey@elkhornslough.org. Please pre-register online as soon as possible at:

http://www.elkhornsloughctp.org/training/show_train_detail.php?TRAIN_ID=JuAZB6V

THE DEADLINE FOR REGISTRATION IS October 1st, 2010, 5 p.m.

Payment: In order to guarantee a space in the course after pre-registering online, you must provide the **Elkhorn Slough Foundation** with a check, cash payment, or money order for the \$1400 registration fee by 5:00 PM Friday, October 1st, 2010. Tuition covers costs of all course handout materials, field trip transportation, lunch, and coffee breaks (Monday and Tuesday, only - cold drinks and lunch only available Wednesday through Friday in the field).

Please make all Money Orders and Checks payable to: Elkhorn Slough Foundation -please note on check your pre-registration number and abbreviated course title-

Address payment to: Elkhorn Slough Foundation, attn: Grey Hayes; P.O. Box 267, Moss Landing, CA 95039

Cancellation Policy: If participants enroll in the course and then cancel before October 1st, 2010, they will be granted a refund minus a \$50 handling fee. In the event of cancellation after October 1st, 2010, no refund will be provided and the Elkhorn Slough Foundation will retain the full amount. You cannot 'trade' registration with another individual, even in the same organization. If, because of insufficient enrollment, Elkhorn Slough Foundation chooses to postpone the course, a determination will be made by October 5th, 2010, the Coastal Training Program will (a) immediately notify participants of the postponement by phone and/or fax, (b) provide a full refund of the deposit, and (c) notify interested individuals of other available delineation workshops.

PLEASE **do not register** if you are not reasonably certain you can attend, and/or if you are unwilling to observe the registration/cancellation policy outlined above.

IV. Logistics

A. Place Of Instruction & Lodging

The first 2 days (October 25, 26) of the course will be based out of the Monterey Bay Aquarium Research Institute, California, northern Monterey County. The following 3 days (October 27, 28, 29) will depart at 8 a.m. sharp from the Elkhorn Slough Reserve, which is located at 1700 Elkhorn Road, Watsonville, CA 95076. Participants are responsible for coordinating their own hotel accommodations. A partial list of hotels and motels that are reasonably close to the venue and local restaurants is given below.

Local Hotels:

<u>Marina</u>

15 minutes south on the coast highway, Hwy. 1. This is a small, ex-military town that is transitioning into a college town. There are a handful of restaurants and access to miles of little-used beaches or inland hiking trails.

Marina Dunes Resort:

http://www.state-of-california-hotels.com/marina-lodging/marina-dunes-resort.html

Comfort Inn: <u>http://www.state-of-california-hotels.com/marina-lodging/comfort-inn-marina.html</u>

Holiday Inn Express: http://www.ichotelsgroup.com/h/d/ex/1/en/hd/MMRCA

<u>Watsonville</u>

20 minutes to the venues. This largely agricultural or service-based community is home to a lively Latino community with a historic town square, authentic cuisine, and lots of shopping. It is a few minutes drive, through agricultural fields, to the beach and even further to any inland hiking opportunities.

Comfort Inn: a little farther than the last, also not the best surroundings: <u>http://www.state-of-california-hotels.com/watsonville-lodging/comfort-inn-</u>

<u>Monterey</u>

30 minutes from the venues, depending on traffic, etc. This historic town is a highly desired tourist destination including the spectacular Monterey Bay Aquarium and the awesome Pt. Lobos State Park, gateway to the breathtaking drive down the coast highway into Big Sur. There are ample opportunities to dine and partake in all manner of tourist affairs.

There are so many places to stay, and none that we have stayed at, that it would be worth your while, if you want to stay there, to do some web searching yourself on this city.

Local restaurants near the venues:

Sea Harvest Fish Market and Restaurant	Haute Enchilada
2420 Highway 1, Moss Landing	Moss Landing Road, Moss Landing
(831) 728-8686	(831) 633-5843
11am-8pm daily	7am-5pm daily
Fiesta Tepa-Sahuayo	Mai Thai Cuisine
15 First St., Watsonville	210 Reindollar Ave
(831) 724-3492	Marina, CA 93933
9am-9pm daily	(831) 883-9677

B. Transportation

Transportation to and from the workshop will be the responsibility of each participant. If you are arriving by air from out of town, flights routed into San Jose International Airport will be the most convenient. If you are coming from San Jose International Airport, there are several shuttle services and other options, please contact Grey Hayes for more information.

If you are travelling from out-of-town, plan to arrive on the night of Sunday, October 24th, 2010 to be best prepared for an early start the following day. Plan departures from the venue no sooner than 7:00 PM on Friday, October 29, 2010.

Field Trips & Safety

Buses, Not Your Car: Participants should come prepared to travel to field sites via commercial bus on Wednesday, Thursday, and Friday (all day each day). Please do not plan or request to drive your own car on field trips. It fragments the group, causes significant safety concerns, and/or results in chaos if drivers get lost or if their cars break down.

Food: Field lunches will be provided on field days (see Preliminary Agenda on website).

Weather: October weather in the Monterey Bay region should be fairly cool, but sometimes unpredictable. It can get warm at times, and we do occasionally have October rains. Field trips will run with all due regard for safety, but generally in spite of weather conditions. Therefore, bring jackets, hats, sun screen, sun glasses, insect repellent, ankle, knee or hip-length rubber boots (not chest waders), and personal water bottles.

Equipment: All maps, field equipment, and transportation necessary for field work will be provided. Participants may elect to bring cameras, field glasses, and field guides for their personal use. Because course materials and homework will be digital, participants should also bring a laptop computer or arrange the use of one during the evenings of the course.

PLEASE BE PREPARED TO GET SOAKING WET, HOT OR COLD, TIRED AND EXPOSED TO THE SUN, AND/OR INSECTS ALL DAY LONG

Health: Because field conditions for the course could be stressful, the Course Leaders & Safety Specialists (Drs. Lee and Hayes) request to be advised at the earliest possible time if any participants have concerns for their health in the field, specifically in the wetland environments in and around the Monterey Bay area. If at all possible, plan ahead for long intervals (4-5 hours) without a formal "meal" or deviation from the course agenda.

Liability Release: There are inherent risks in participating in field-based training. In this regard, the course instructors and Elkhorn Slough Foundation shall assume no liability and shall be held harmless for injuries and/or accidents that occur during the course. Participants will be required to sign a Liability Release. Health concerns include but are not limited to hyper or hypoglycemia, diabetes, epilepsy or other potentially convulsive conditions, allergies (especially to bee or wasp stings), susceptibility to exhaustion, heart conditions, heat stroke, etc.