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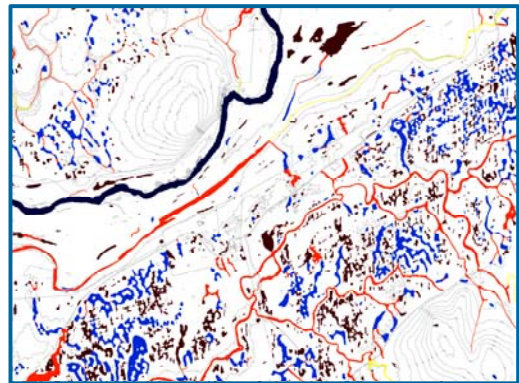
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Wetland Assessment and Delineation



ECORP has extensive experience conducting assessments and delineations of wetlands and other waters of the United States throughout California, and other Western States. ECORP's biologists are experienced with a broad range of freshwater and coastal wetland communities. Wetland assessments are conducted to identify the presence and approximate extent of potentially jurisdictional waters of the United States (regulated under the federal Clean Water Act), and waters regulated by the California Department of Fish and Game. The U.S. Fish and Wildlife Service is consulted under the federal Endangered Species Act regarding potential effects to federally-listed threatened and endangered species.

Data obtained through assessment investigations are often used during initial project opportunity/constraint analyses. Jurisdictional delineations precisely map and quantify the extent of wetlands and other waters of the United States subject to U.S. Army Corps of Engineers jurisdiction, and regulated under the federal Clean Water Act. Field investigations involve the collection of site-specific data, including soil characteristics, assessment of plant species composition, and evaluations of hydrologic conditions. Wetland delineations are conducted in accordance with the Corps of Engineers Wetlands Delineation Manual and the interim supplement to the Corps of Engineers Wetlands Delineation Manual: Arid West Region.



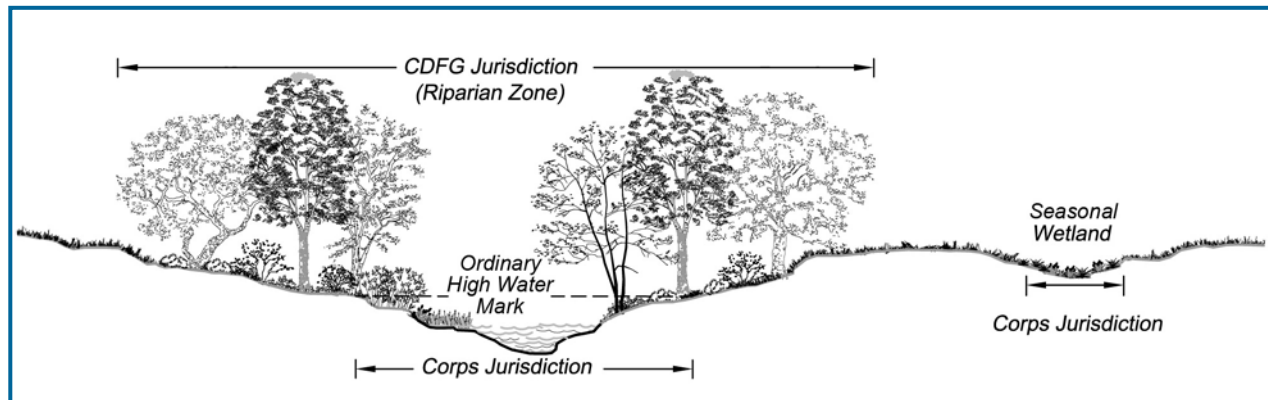
Services Provided

- Pre-investment "due diligence" analysis
- Wetland jurisdictional determinations
- Use of Global Positioning System (GPS) technology to map locations of sensitive resources
- Development of Geographic Information System (GIS) databases to catalog wetlands and other sensitive biological resources
- Preliminary assessment of regulatory requirements and project design consultation to assist in regulatory compliance



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Environmental Permit Acquisitions



ECORP's staff have extensive experience in preparing and obtaining regulatory permits for projects ranging from private residential development to federal and state-funded projects. ECORP staff are skilled in the interpretation of federal Clean Water Act Sections 401 and 404 regulations, National Environmental Policy Act, California Environmental Quality Act, National Historic Preservation Act, Endangered Species Act, and California Department of Fish and Game Code. ECORP staff members have developed strong working relationships with federal and state regulatory agency staff.

FEDERAL:

U.S. Army Corps of Engineers

- Clean Water Act
 - Section 404 Nationwide and Individual Permits
- Rivers and Harbors Act
 - Section 10 Permits

U.S. Environmental Protection Agency

- Clean Water Act
 - Section 404(b)(1) Alternatives Analysis
- National Environmental Policy Act (NEPA)
 - Environmental Assessments (EA)
 - Environmental Impact Statements (EIS)

U.S. Fish and Wildlife Service

- Endangered Species Act
 - Section 7 Consultations for Biological Opinions
 - Section 10 Habitat Conservation Plans

National Marine Fisheries Service

- Endangered Species Act
 - Section 7 Consultation for Biological Opinions

Advisory Council on Historic Preservation

- National Historic Preservation Act
 - Section 106 Determinations
- Archaeological Resource Protection Act
- Native American Graves Protection and Repatriation Act

CALIFORNIA:

State of California

- California Environmental Quality Act (CEQA)
 - Negative Declarations (ND)
 - Environmental Impact Reports (EIR)
- State Historic Preservation Officer Determinations

California Department of Fish and Game

- Lake and Streambed Alteration Agreements
 - Section 1600 Permits
- California Endangered Species Act

Regional Water Quality Control Board

- Clean Water Act Water Quality Certification
 - Section 401 Certifications
 - Section 402 National Pollutant Discharge Elimination System (NPDES) Permitting
 - Storm Water Pollution Prevention Plans
- Porter-Cologne Act
 - Waste Discharge Permits

California Reclamation Board

- Encroachment Permits

California Coastal Commission

- California Coastal Act
 - Local Coast Program (LCP)



Federal Energy Regulatory Commission Licensing Support



Under the Federal Power Act, the Federal Energy Regulatory Commission (FERC) has the exclusive authority to license non-federal hydropower projects on navigable waterways and federal lands with review of state and federal agencies. Building and operating hydropower projects can affect the natural environment and result in changes to land use, which may be of concern to local citizens and non-governmental organizations.

On July 23, 2003, FERC issued a Final Rule to revise its regulations pertaining to hydroelectric licensing under the Federal Power Act. Effective October 23, 2003, the revisions would create a new licensing process, the Integrated Licensing Process (ILP). ECORP is proficient at FERC licensing and relicensing, using ILP, Alternative Licensing Procedure (ALP), and Traditional Licensing Process (TLP). ECORP has conducted several FERC licensing and relicensing efforts, often leading the collaborative effort, and providing technical support for required study elements.

Listed below are the elements, required by the ILP:

- Geology and soils
- Water resources
- Fish and aquatic resources
- Wildlife and botanical resources
- Wetlands, riparian and littoral habitat
- Rare, threatened and endangered species
- Recreation and land use
- Aesthetic resources
- Cultural resources
- Socio-economic resources
- Tribal resources
- River basin description
- Dispute resolution (computer-aided)



Mitigation and Compensation Planning



Habitat mitigation planning, design, permitting, and implementation are some of the most complex issues in the environmental field. It not only requires knowledge of biology/ecology, hydrogeomorphology, horticulture, landscape architecture, and landscape contracting to design; but also a broad understanding of federal and state rules and regulations which ultimately dictate permitting/mitigation success. Often approval of a project's mitigation is as complicated as the project entitlement process. ECORP personnel are on the leading edge of mitigation planning and implementation, and are recognized as such by resource agencies such as the U.S. Army Corps of Engineers (Corps), U.S. Environmental Protection Agency (EPA), and U.S. Fish and Wildlife Service (USFWS). ECORP has developed a strong reputation in this field, and is sought out by private parties, conservation groups, and local governments for our mitigation planning experience.

Services Provided

- On- and off-site mitigation feasibility studies prior to final development project design
- Conceptual habitat restoration plans for permit approvals for both wetland and upland habitats
- Landscape and engineering construction documents for project bidding and installation
- Installation monitoring to oversee mitigation plan implementation
- Adapt mitigation design to site conditions
- Long-term success monitoring of restoration projects
- Assess that permit and design goals are met through habitat replacement
- Evaluation of on- and off-site mitigation opportunities
- Wetland mitigation bank planning, design, and implementation
- Compensation planning for impacts to threatened or endangered species
- Regional-scale mitigation planning
- Habitat Conservation Planning (HCP), pursuant to federal Endangered Species Act (ESA), Section 10
- Natural Community Conservation Planning (NCCP), pursuant to California Fish and Game Code, Section 2081



Habitat Restoration, Planning, Design, and Construction



ECORP is experienced in the design, management, and supervision of habitat restoration and construction activities. Our staff prepare design specifications and assist in the bid process. We provide observation and technical assistance during grading and construction of wetland restoration and compensation sites, such as vernal pools, seasonal and perennial wetlands, streams, and upland buffer areas. Our staff also prepare planting plans, specifications, irrigation plans, and provide assistance with implementation of various restored habitats and vegetation communities.



Community Types

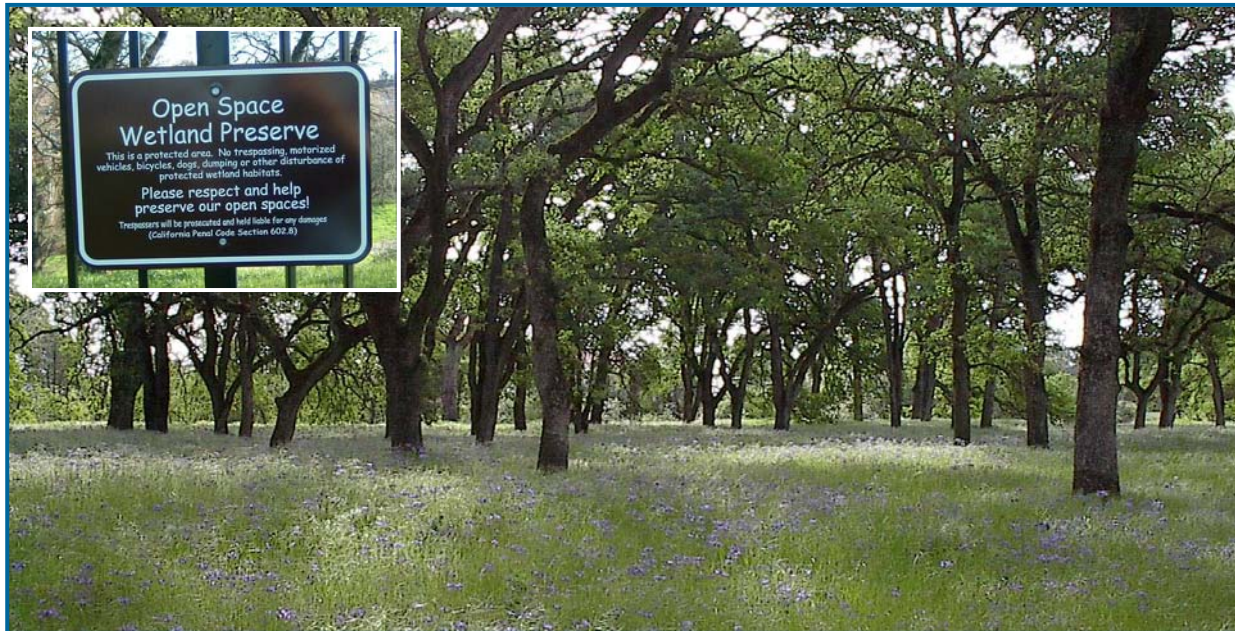
- Vernal pools
- Fresh water marshes
- Salt marshes
- Riparian systems
- Riverine, ponds and lakes
- Coastal sage scrub
- Native grasslands
- Oak woodlands
- Desert

Services Provided

- Baseline data collection
- Permit applications and agency mitigation consultations
- Conceptual habitat creation/restoration design
- Habitat restoration landscape construction documents
- Construction bid assistance
- Construction observation
- Compliance monitoring
- Habitat success monitoring
- Invasive exotic species eradication plans



Open Space Management



ECORP staff have worked extensively with federal and state resource agencies and local jurisdictions to develop Management Plans that meet all of the necessary regulatory requirements pertaining to open space preserves. ECORP also provides biological monitoring to assess the health of open space and facilitate its preservation in its natural state.

ECORP staff are experienced in the preparation of Open Space Management Plans for a variety of habitat types from plan development to drafting deed restrictions and conservation easements. In addition, ECORP staff can assist in identifying a Preserve Manager and coordinating the activities that will be necessary to implement the tasks identified in the Open Space Management Plan.

Often, monitoring is a requirement of an Open Space Management Plan. ECORP's biologists conduct regulatory agency-required surveys including floristic monitoring, special-status species monitoring, site protection monitoring, open space restoration plans, and identification of invasive, non-native plant species for removal or management.

Services Provided

- Development of Open Space Management/Restoration Plans
- Natural resource agency and land trust liaison
- Preparation of deed restrictions and conservation easements
- Biological monitoring, as required by management plans
- Identification of invasive non-native plant species for management
- Assistance with management of open space areas
- Assistance in calculating costs for long-term open space management



Storm Water Quality Management



ECORP offers a wide range of storm water quality management expertise to both the private and public sectors for development projects (construction and post-construction), and industrial facilities. Our water quality staff approach each project with site-specific and cost-effective techniques to minimize storm water pollution, and comply with state, federal, and local regulations.

Services Provided

- Storm water consultation
 - On-call site assessment
 - Storm Water Pollution Prevention Plan (SWPPP) preparation for construction sites and industrial facilities
 - Selection of appropriate and cost-effective Best Management Practices (BMPs)
 - Preparation and submittal of Notice of Intent (NOI) and Notice of Termination (NOT)
 - Response to agency enforcement actions
- Storm water pollution prevention training and certification
 - Key concepts of erosion and sediment control
 - Storm water regulation
 - BMP technology, proper installation, and maintenance and monitoring
- Construction/industrial monitoring and reporting
 - Site inspections and water quality monitoring
 - Annual report preparation
- Post-construction
 - Development of Phase I and Phase II storm water management programs and design standards for municipalities and special districts
 - Preparation of post-construction storm water quality control plans

