



Coast Ridge Ecology, LLC (CRE)



Company Profile

Coast Ridge Ecology, LLC (CRE) is an ecological consulting firm that has been in business since 2007 and has extensive experience in providing endangered species surveys, construction monitoring, restoration planning and monitoring, permitting assistance, wetland delineations, biological assessments, CEQA analysis, and research and education services for a variety of public and private sector clients. CRE is owned by principal biologist Patrick Kobernus, who has 30 years of experience conducting endangered species surveys and monitoring, supervising habitat management and restoration projects, and providing permitting assistance to clients in California.

CRE has extensive experience conducting habitat assessments and focused surveys for special status species such as the Mission blue, San Bruno elfin and Callippe silverspot butterflies, California red-legged frog, San Francisco garter snake, California tiger salamander, western pond turtle, and central California coast steelhead (see full list below). CRE has specialized expertise in conducting surveys for nesting birds including raptors, and roosting bats (using acoustic monitoring equipment). CRE staff also have extensive experience managing all facets of habitat restoration projects, including rare plant and plant community mapping, endangered species population monitoring, construction monitoring, vegetation management planning (invasive species control using herbicide, controlled burning, and grazing), and documentation and reporting.

Environmental Services

- *Biological Assessments*
- *Construction Monitoring*
- *Protocol Surveys for Rare and Endangered Plant and Animal Species*
- *Wetland Delineations and Mapping*
- *Mitigation, Monitoring and Restoration Plans*
- *Habitat Management and Reporting*
- *U.S. Fish and Wildlife Service (USFWS) Section 7 and Section 10 HCP's*
- *Initial Study Checklists and EIS/EIR Biological Resources Sections*
- *California Department of Fish and Wildlife 1600 Streambed Alteration Agreements*
- *U.S. Army Corps of Engineers CWA Section 404*
- *Regional Water Quality Control Board 401 Permitting Consultations*
- *California Coastal Act Permitting Consultations*
- *Joint Aquatic Resource Permit Applications (JARPA)*
- *National Environmental Protection Act and Natural Environment Studies (NES)*
- *California Environmental Quality Act (CEQA) Compliance Analysis and Permitting*

Permits and Certifications

- *USFWS 10(a)(1)(A) Recovery Permits for:*

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|------------------------------------|---------------------------------------|
| <i>California red-legged frog</i> | <i>freshwater branchiopods</i> |
| <i>California tiger salamander</i> | <i>coastal California gnatcatcher</i> |
| <i>San Francisco garter snake</i> | <i>Quino checkerspot butterfly</i> |
- *California Department of Fish and Game Scientific Collecting Permit*
- *Small Business Enterprise (SBE), State Department of General Services*
- *Local Business Enterprise (LBE), City and County of San Francisco, (OBE), micro LBE*

Representative Projects

CRE clients consist of private individuals and corporations and public agencies such as the San Francisco Public Utilities Commission, Pacific Gas and Electric, San Mateo County Parks Department, Port of San Francisco, City and County of San Francisco Public Works Department and San Mateo County Public Works Department.

San Francisco Public Utilities Commission Water System Improvement Program

From 2009 to 2023, CRE has served as a biological consultant for several large-scale, long-term construction and habitat restoration projects for the SFPUC WISP projects in the Peninsula and Alameda Watershed Regions. CRE has been providing on-going special status species surveys, restoration planning and management, environmental coordination and inspection and construction monitoring services. CRE has also completed Biological Assessments, CEQA analysis and Wetland Delineations for SFPUC.

San Mateo County Parks and Public Works Department, Professional On-Call Services

Beginning in 2012, CRE has provided on-call biological services to the County of San Mateo, including California red-legged frog surveys and monitoring, endangered butterfly surveys and monitoring for Mission blue butterfly, Callippe silverspot butterfly and San Bruno elfin butterfly, habitat restoration plans, nesting bird surveys, roosting bat surveys, educational trainings on nesting birds and endangered butterflies for Park staff, and revegetation monitoring.

Port of San Francisco On-Call Services

CRE has provided a number of on-call biological services to the Port, including Biological Assessments, wetland delineations along the San Francisco Bay, colonial shorebird and marine mammal monitoring, roosting bat and nesting bird surveys, Pacific herring monitoring, and permitting assistance on projects including Pier 19 America's Cup, Brannan Street Wharf, the SF Port's Maintenance Programmatic Permit, Pier 80 Osprey Nest Replacement and Peregrine Falcon Monitoring, Pier 80 re-roofing project, Pier 70 Crane Cove Park and Pier 64 Caspian tern monitoring, and restoration monitoring and Biological Inventory and Habitat Management Plan for Heron's Head Park.

Special Status Species

Mammals

Hoary bat (WBWG-M)
Giant kangaroo rat (FE, SE)
Other roosting bats
Point Arena Mountain beaver (FE)
San Francisco dusky-footed woodrat (SSC)
San Joaquin kit fox (FE, ST)
Townsend's big-eared bat (SSC)
Western red bat (SSC)
Marine Mammals protected under MMPA

Birds

American peregrine falcon (FDR, FP)
Bald eagle (FDR, SE)
Bank swallow (ST)
Burrowing owl (SSC)
California condor (FE, SE)
Coastal California gnatcatcher (FT)
Cooper's hawk (WL)
Double-crested cormorant (WL)
Least Bell's vireo (FE, SE)
Marbled murrelet (FT, SE)
Merlin (WL)
Northern harrier (SSC)
Northern spotted owl (FT)
Saltmarsh common yellowthroat (SSC)
Western snowy plover (FT, SSC)
White-tailed kite (FP)
Swainson's hawk (ST)

Amphibians and Reptiles

Alameda whipsnake (FT, ST)
Arroyo toad (FE)
California giant salamander (SSC)
California red-legged frog (FT, SSC)
California tiger salamander (FT, ST)
Desert tortoise (FT)
Foothill yellow-legged frog (SSC)
San Francisco garter snake (FE, SE)
Western Pond turtle (SSC)

Fish

California Central Coast steelhead trout (FT)
California Central Coast coho salmon (FE, SE)
Pacific herring (CCFS)

Invertebrates

Bay checkerspot butterfly (FT)
Callippe silverspot butterfly (FE)
Mission blue butterfly (FE)
Quino checkerspot butterfly (FE)
San Bruno elfin butterfly (FE)
Smith's blue butterfly (FE)
Vernal pool fairy shrimp (FT)
Vernal pool tadpole shrimp (FE)

Plants

California seablite (*Suaeda californica*) (FE, CNPS 1B.1)
Choris' popcornflower (*Plagiobothrys chorisianus* var. *chorisianus*) (CNPS 1B.2)
Coast yellow leptosiphon (*Leptosiphon croceus*) (SE, CNPS 1B.1)
Crystal Springs fountain thistle (*Cirsium fontinale* var. *fontinale*) (FE, SE, CNPS 1B.1)
Crystal Springs lessingia (*Lessingia arachnoidea*) (CNPS 1B.2)
Diablo helianthella (*Helianthella castanea*) (CNPS 1B.2)
Franciscan onion (*Allium peninsulare* var. *franciscanum*) (CNPS 1B.2)
Hickman's cinquefoil (*Potentilla hickmanii*) (FE, SE, CNPS 1B.1)
Marin western flax (*Hesperolinon congestum*) (FT, ST, CNPS 1B.1)
Montara manzanita (*Arctostaphylos montaraensis*) (CNPS 1B.2)
Perennial goldfields (*Lasthenia californica* ssp. *macrantha*) (CNPS 1B.2)
Rose leptosiphon (*Leptosiphon rosaceus*) (CNPS 1B.1)
San Bruno Mountain manzanita (*Arctostaphylos imbricata*) (CNPS 1B.1)
San Francisco campion (*Silene verecunda* ssp. *verecunda*) (CNPS 1B.2)
San Francisco collinsia (*Collinsia multicolor*) (CNPS 1B.2)
San Francisco gumplant (*Grindelia hirsutula* var. *maritima*) (CNPS 3.2)
San Mateo thorn-mint (*Acanthomintha duttonii*) (FE, SE, CNPS 1B.1)
San Mateo woolly sunflower (*Eriophyllum latilobum*) (FE, SE, CNPS 1B.1)
Western leatherwood (*Dirca occidentalis*) (CNPS 1B.2)
White-rayed pentachaeta (*Pentachaeta bellidiflora*) (FE, SE, CNPS 1B.1)

Special Status Species Codes: FE: Federal Endangered; SE: State Endangered; FT: Federally Threatened; ST: State Threatened; FDR: Federally Delisted; FP: Fully Protected; SSC: State Species of Special Concern; WL: CDFW Watchlist; MMPA: Marine Mammal Protection Act; WBWG-M: Western Bat Working Group Medium Risk; CCFS: California Commercial Fishery Species. California Native Plant Society Ranks- 1B: rare or endangered in CA or elsewhere, 0.1: Seriously endangered in California, 0.2: Fairly endangered in California, 2: rare or endangered in CA but more common elsewhere, 3: more information is needed to determine degree of sensitivity, 4: plant of limited distribution