



# Habitat Restoration - and - Environmental Education

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## STATEMENT OF QUALIFICATIONS

March 2020



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## EXPERIENCE

Channel Islands Restoration (CIR) has been restoring habitats on the Channel Islands and the coastal areas of Southern California since 2001. We specialize in eradicating non-native invasive species, propagating native plants, planting native plants, installing irrigation systems, preparing habitat restoration plans and conducting botanical and biological surveys. CIR personnel have expertise in the identification of native and non-native plants, and threatened and endangered species. CIR is a licensed landscape contractor and licensed to apply herbicides. CIR has worked on 30 different projects on the Channel Islands, and more than 70 projects in Santa Barbara and Ventura Counties. Our clients include four federal agencies, six state agencies, nine local or tribal agencies and sixteen private entities.

### MAINLAND PROJECTS SANTA BARBARA COUNTY

**Andree Clark Bird Refuge/Santa Barbara Zoo**  
invasive weed eradication and re-vegetation

**Arroyo Burro Creek**  
Arundo eradication

**Arroyo Hondo Preserve**  
Invasive weed eradication

**Arroyo Hondo Preserve**  
Construction monitoring to protect Steelhead and CA Red-Legged Frog

**Atascadero Creek**  
Invasive weed eradication and re-vegetation

**Bixby Ranch**  
Botanical Assessment

**Burton Mesa Ecological Reserve**  
El Segundo blue butterfly habitat restoration

**Burton Mesa Ecological Reserve**  
Land Management Plan

**Burton Mesa Ecological Reserve**  
Wildlife and Botanical Surveys and Vegetation Sampling

**Burton Mesa Ecological Reserve**  
Botanical Surveys for Rare Plants

**Carpinteria Creek**  
Arundo removal

**Carpinteria Salt Marsh**  
Survey for Salt Marsh Bird's-Beak (endangered)

**Carpinteria Salt Marsh**  
Removal of European sea lavender

**Carpinteria State Beach**  
Iceplant removal and native species re-vegetation

**Elings Park**  
Pampas grass eradication

**Elings Park**  
oak woodland restoration and invasive weed eradication

**Ellwood Mesa**  
Monarch Butterfly Habitat Management Plan Update, City of Goleta

**Gaviota Coast**  
Artichoke thistle eradication



**Gaviota Creek**  
Estuary Restoration Potential

**Gaviota**  
Tarplant Surveys and Morphological Analysis of Gaviota Tarplant and Common Tarplant

**Hollister Ranch**  
Botanical Survey

**Lake Los Carneros**  
Restoration and re-vegetation

**Lookout Park**  
Arundo removal and native species re-vegetation

**Mission Canyon**  
Arundo eradication

**Montecito**  
Arundo eradication

**More Mesa**  
Pampas grass and knapweed eradication

**More Mesa Steps**  
Invasive weed control/re-vegetation

**Parma Park**  
Invasive weed eradication

**Point Sal Reserve**  
Management Plan

**Rancho Dos Vistas**  
Biological Assessment

**SANTA BARBARA COUNTY***continued***Refugio Creek**

Arundo removal/native species re-vegetation

**Refugio State Beach**

Invasive weed removal/native species re-vegetation

**Rice Ranch (Orcutt)**

Invasive plant removal

**Rincon Creek**

Arundo eradication

**San Marcos Foothills**

Artichoke thistle/silver nightshade eradication

**San Marcos Foothills**

Atascadero Creek restoration project

**San Marcos Foothills**

Cieneguitas Creek restoration project

**San Roque Creek**

Arundo eradication

**Sanja de Cota Creek on Chumash Indians Reservation**

Restoration Plan and Eradication of Invasives

**Santa Barbara Botanic Garden**

invasive plant control

**Santa Ynez Band of Chumash Indians**

Sanja de Cota Creek Habitat Restoration Plan and Implementation

**Santa Ynez River**

Arundo eradication

**Santa Ynez Valley**

Puna grass eradication

**Sisquoc River Watershed**

Tamarisk eradication

**Vandenberg Air Force Base**

10-Year Fire Management Plan

**Vandenberg Air Force Base**

Biological Assessment of 10-Year Fire Management Plan

**Vandenberg Air Force Base**

Botanical Surveys and Vegetation

**Vandenberg Air Force Base**

Invasive Species Eradication

**Vandenberg Air Force Base**

Botanical and Wildlife Surveys and Biological Assessment

**Vandenberg Air Force Base**

Assessment of Impacts to El Segundo Blue Butterfly Habitat

**VENTURA COUNTY****Conejo Open Space Conservation Agency** eradication of invasive weeds**Cuyama Valley** Survey and weed treatment**Hidden Valley** Coastal Sage Scrub restoration**Ormond Beach** dune restoration**Oxnard McGrath** dune and wetland restoration, including weeding around *Astragalus pycnostachyus* var. *lanosissimus* (endangered)**Point Mugu Naval Air Station** wetland restoration**Point Mugu** seed collection, plant propagation, plant/irrigation installation, invasive control**Santa Clara River** Arundo eradication, Camp property, Taylor property, Hanson property**Santa Clara River** Arundo eradication and revegetation, City of Santa Paula**Santa Clara River** Invasive Plant Eradication, Hedrick Ranch Nature Area**Santa Clara River** Arundo eradication, Fillmore Fish Hatchery**Santa Clara River** Arundo eradication, The Nature Conservancy**Santa Monica Mountains National Recreation Area** Saddle Peak Spanish Broom eradication**Thousand Oaks** salvage and revegetation of *Astragalus brauntonii* (endangered)

*CIR cut-stump treatment of Arundo in the Santa Clara River*

## CHANNEL ISLAND PROJECTS

### San Nicolas Island

Nursery construction, seed collection, plant propagation of more than 50,000 native plants, plant installation and irrigation, habitat restoration of dune vegetation, native grasslands, coastal sage scrub, cactus scrub, maintenance of restoration projects, erosion control and control of invasive weeds including Sahara mustard, carnation spurge and iceplant.

### San Clemente Island

Control of invasive species including iceplant and fennel

### Anacapa Island

Control of invasive weeds including iceplant, seed collection, establishment of island nursery, propagating and planting native species, and conducting educational programs

### Santa Cruz Island

Control of invasive species, seed collection, planting of native species, trail construction

### Santa Rosa Island

Control of invasive weeds, seed collection, planting native species, installation of erosion control measures, rare plant surveys, building and removal of fences and enclosure

### San Miguel Island

Control of invasive species



*CIR restores habitats on San Nicolas Island.*



*CIR's native plant nursery in Camarillo.*

## PLANT PROPAGATION

### Seed and Cutting Collections & Seed Storage

- Anacapa Island
- San Nicolas Island Navy Base
- Point Mugu Navy Base
- Ventura County Native Seed Harvest

### Native Plant Propagation

- Anacapa Island
- Burton Mesa
- Carpinteria Salt Marsh
- Point Mugu
- San Nicolas Island
- Thousand Oaks

### Nursery Construction

- Anacapa Island
- Camarillo
- San Nicolas Island

## VOLUNTEERS

For 18 years, our habitat restoration work has been supported by volunteers who help us collect seeds, propagate, plant and weed. Guided and directed by our highly skilled and experienced Project Managers, every year, over 1,000 volunteers help us restore habitats on the islands and on the mainland. This helps us deliver an extremely high quality product at a low price. This can save you money and spread your financial resources out so that they last longer and accomplish more.



## RESTORED HABITATS

### *Oak Woodland*

#### **Arroyo Hondo**

Removal of Invasives in Oak Woodland

#### **San Marcos Foothills Preserve**

Restoration of Oak Understory

#### **Santa Cruz Island**

Removal of Invasives (Eucalyptus, *Vinca*, Kukuluyu Grass) in Oak Woodland

### *Native Grassland*

#### **San Marcos Foothills Preserve**

Native Grassland Restoration Plan and Implementation

#### **Gaviota Coast**

Artichoke thistle removal

#### **Sierra Madre Potrerros**

Native Grassland Botanical and Wildlife Surveys

### *Coastal Sage Scrub*

#### **San Marcos Foothills Preserve**

Planting Coastal Sage Scrub species

#### **Santa Cruz Island**

Removal of Invasives around Endangered Species

#### **Burton Mesa Ecological Reserve**

Planting Coastal Scrub Species

### *Ocean Bluff Habitat*

#### **Summerland Lookout Park**

Removal of *Arundo donax*

Planting coastal bluff scrub

#### **UCSB Ocean Bluffs**

Removal of Pampas Grass

#### **Santa Cruz Island**

Pelican Bay Restoration of coastal bluff scrub

Removing invasives around a listed species

### *Riparian*

#### **Carpinteria Creek**

Arundo removal

#### **Refugio Creek**

Arundo removal

#### **Santa Clara River**

Arundo removal

#### **Santa Ynez River**

Tamarisk eradication

#### **Sanja de Cota Creek**

Removal of *Vinca*, Himalayan Blackberry,

German Ivy and others

#### **Santa Cruz Island**

Removal of invasive species in multiple creeks

#### **Sisquoc River**

Tamarisk eradication

### *Ice Plant Eradication*

**Anacapa Island** (40+ acres)

**Carpinteria State Beach** (2 acres)

**Carpinteria Salt Marsh** (.25 acre)

**San Clemente Island** (80+ acres)

**Santa Cruz Island** (5 acres)

### *Roadside Revegetation*

**Burton Mesa Ecological Reserve**

.25 mile road to coastal scrub

**San Nicolas Island**

2.5 miles along roadsides to coastal scrub

### *Wetlands*

**Carpinteria Salt Marsh**

**Point Mugu Navy Base**

### *Sand Dunes*

**Coal Oil Point Reserve**

**San Nicolas Island**

CIR crew on a tamarisk eradication trip in the Los Padres National Forest



## WORK WITH THREATENED AND ENDANGERED SPECIES

***Acmispon argophyllus* var. *niveus* (Santa Cruz Island bird's-foot trefoil):** Performed extensive invasive plant removal in close proximity to *Acmispon* on Santa Cruz Island.

***Acmispon dendroideus* var. *traskiae* (San Clemente island lotus):** hand removed ice plant growing with the *Acmispon* on San Clemente Island

***Boechera hoffmannii* (Hoffman's rockcress):** treated (with herbicide) *Lepidium draba* (hoary cress) growing in close proximity to *Boechera* on Santa Cruz Island.

***Astragalus brauntonii* (Braunton's milk vetch):** seed collection, propagation, and planting in Thousand Oaks.

***Astragalus pycnostachyus* var. *lanosissimus* (Ventura Marsh Milk-Vetch):** treated invasive plants growing in close proximity to the *Astragalus* at the North Shore project in Oxnard and at Coal Oil Point Reserve.

***Chloropyron maritimum* subsp. *maritimum* (Salt Marsh Bird's-Beak):** surveyed the entire 230-acre Carpinteria Salt Marsh for this species.

***Dithyrea maritima* (beach spectaclepod):** grew and planted *Dithyrea*, plus removed ice plant growing with *Dithyrea* on San Nicolas Island.

***Galium buxifolium* (Sea-cliff bedstraw):** treated (with herbicide) *Vinca major* that was growing with *Galium* on cliff habitat on Santa Cruz Island. This was part of a study with U.S.G.S. to assess the viability and effectiveness of removing an invasive plant growing with an endangered plant.

***Thysanocarpus conchuliferus* (Santa Cruz Island Lace pod):** treated (with herbicide) *Verbascum thapsus* (common mullein) growing in close proximity to *Thysanocarpus* on Santa Cruz Island.

***Rana draytonii* (California red-legged frog):** surveys in the Sisquoc River, monitoring and rescues in Arroyo Hondo

***Anaxyrus californicus* (Arroyo toad):** surveys in the Sisquoc River

***Thamnophis hammondii* (Two-striped garter snake):** surveys in the Sisquoc River, Vandenberg Air Force Base, Ojai and other locations

***Anniella pulchra* and *stebbinsi* (Legless lizard):** surveys in the Oceano Dunes, Burton Mesa, and other locations

***Phrynosoma blainvillii* (Blainville's Horned Lizard):** Cuyama Valley, Burton Mesa, and other locations

**Peregrine falcon:** Nest monitoring through an entire breeding season at the Los Angeles Harbor.



CIR salvages an endangered species from a construction site.

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**REFERENCES****William Hoyer***U.S. Navy San Nicolas Island Biologist*

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