Use of EcoAtlas in Program Implementation

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San Francisco Estuary Institute
Wetlands, Remote Sensing & Participatory Science Case Studies
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Topics

- WRAMP Framework
- California Aquatic Resource Inventory and Editor Tool
- Project Tracking
- Landscape Profile Tool
What is **WRAMP**?

Wetland and Riparian Area Monitoring Plan

comprehensive framework for monitoring and assessment of aquatic resources within the watershed or landscape context
What is WRAMP?

- WRAMP advises CA’s Wetland and Riparian Area Protection Policy (WRAPP)
- EcoAtlas is a toolset that supports CA’s three level monitoring and assessment framework
What is EcoAtlas?

A scientifically produced toolset to visualize the abundance, diversity and condition of aquatic resources within a landscape

ecoatlas.org
What is EcoAtlas?

Supports wetland monitoring and reporting throughout California

Aggregates different kinds of environmental data in one place

Provides adaptable and customized reporting tools
Numerous federal, state, local agencies and NGO partners
CARI: California Aquatic Resource Inventory

- Statewide compilation of best available regional mapping efforts
- Wetlands, streams
- Common classification system
- Detail supports local use planning
- Updates to NWI support national assessments
CARI Editor Tool
SHORELINE ADAPTATION + HABITAT RESTORATION PROJECT TRACKING

GROUP-LEVEL

Projects can belong to multiple groups, e.g., Habitat Conservation Plan, San Francisco Bay Restoration Authority, San Francisco Bay Adaptation.

PROJECT-LEVEL

Performance measures
Permit IDs
Program
Project description
Project events
Public display status
Species

SITE-LEVEL

Site events
Site status
Subregions

ACTIVITY-LEVEL

Habitat/Subhabitat type and acres
Phases
Sub-Activities

Information stored at the

Climate adaptation, design life, multi-benefits, SLR/storm event design, groundwater adaptation, Contacts, File & link uploads, Funding needs and sources

Activities, Location (lat/long coordinates), Map polygon

Activity design elevation, slope, and materials, Activity status and time span, Funding details

*Required field
## Montezuma Wetlands Restoration Project

### Basic Information

<table>
<thead>
<tr>
<th>Status</th>
<th>In-progress</th>
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<tbody>
<tr>
<td>Project Type</td>
<td>Non-mitigation</td>
</tr>
<tr>
<td>Project Area (Acres)</td>
<td>2,129</td>
</tr>
<tr>
<td>Last Updated</td>
<td>19 July 2022</td>
</tr>
<tr>
<td>Location</td>
<td>38.0954° N, 121.8732° W</td>
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</tbody>
</table>

### Project Abstract

This 4-stage project will restore about 1,820 acres of tidal wetlands, seasonal wetlands, intertidal ponds, vernal pools, and upland buffer zone habitats through the engineered placement of about 20 million cubic yards of agency-approved dredged sediment to raise the subsided site to elevations appropriate for intertidal marsh.

### Project Groups

- San Francisco Bay Adaptation
- San Francisco Bay Restoration Authority (Eligible)
- San Francisco Bay Restoration Authority (Funded)

### Administrative Region

San Francisco Bay Joint Venture - Sandra Scoggin, SFBJV

### Project Identification

<table>
<thead>
<tr>
<th>ID</th>
<th>Type</th>
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<tbody>
<tr>
<td>RA-001</td>
<td>SFBRA - Project ID</td>
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<tr>
<td>02-40 00005</td>
<td>SWRCB - 401 Certification Letter (e.g., Site Number or WDID)</td>
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<tr>
<td>201051</td>
<td>SWRCB - CIWQS Place Number</td>
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<tr>
<td>194050</td>
<td>USACE - DA File Number</td>
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</table>

### Habitat Plan

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Phase</th>
<th>Activity</th>
<th>SubActivities</th>
<th>Habitat</th>
<th>SubHabitat</th>
<th>Acres</th>
<th>Activity Status</th>
<th>Water Regime</th>
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</thead>
<tbody>
<tr>
<td>Montezuma Avoided Seasonal Wetlands and Vernal Pools</td>
<td>Implementation</td>
<td>Acquisition/Preservation/Protection</td>
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<td>Vernal pools and swales</td>
<td>None</td>
<td>1.40</td>
<td>Completed</td>
<td>Unknown/Unspecified</td>
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<td>Montezuma Created Vernal Pools</td>
<td>Implementation</td>
<td>Creation/Establishment</td>
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<td>Vernal pools and swales</td>
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<td>3.78</td>
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<td>Montezuma Proposed Vernal Pools</td>
<td>Implementation</td>
<td>Acquisition/Preservation/Protection</td>
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<td>Vernal pools and swales</td>
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<td>3.80</td>
<td>Completed</td>
<td></td>
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</tbody>
</table>
Landscape Profile Tool
Landscape Profile Tool
Landscape Profile Tool

- Ecological Restoration based on Habitat Projects – Total Projects: 56
- Tracking Long-term Net Change in Wetland Quantity
- Long-term Net Change charts include information related to projects even if the sites are located outside of the profile region, however, these projects are not included in the list of projects.

### Habitat Projects in Profile Acres

1. Beach Lake Mitigation Bank
2. Bureau of Land Management Program
3. Bureau of Land Management Property
4. Chenowth Point Cross Levee
5. Cosumnes Floodplain Mitigation Bank
6. Cosumnes River Acquisition, Restoration Planning, and

### Landscape Profiles

- Select Profile Mode:
  - Landscape
  - Condition
  - Connectivity

### Define Profile Region

- Draw your area of interest
- Pre-defined areas:
  - None
  - Congressional Districts
  - Counties
  - Hydrologic regions (HUC10)
  - Hydrologic regions (HUC12)
  - Santa Clara County Watersheds
  - Santa Clara County Subwatersheds

- Upload map file
  - Auto-delineated basin by Stream Stats
Landscape Profile Tool
Landscape Profile Tool

![Image of Landscape Profile Tool](image-url)
Visualize information at different scales: local, regional, programmatic, statewide
Questions?

petek@sfei.org

- EcoAtlas - ecoatlas.org
- CARI Editor - https://ecoatlas.org/regions/ecoregion/statewide/?carit=1
- Project Tracker - ptrack.ecoatlas.org