



Interactive mapping of historical, architectural and ecological resources of the Sea Ranch

with a grant from THE SONOMA COUNTY LANDMARKS COMMISSION





What are heritage resources?

Elements of the Sea Ranch landscape that embody the unique inheritance of this ten-mile stretch of coastal land.

HUMAN MADE + INFLUENCED



BIOTIC

RESOURCES

geological formations and the weather that influences them

plant and animal communities that live alongside us

man made or human influenced elements from the past, present + future

Why do we need this survey?

The Sea Ranch stands on a rich history of contextual development, reflected in the every day efforts of the DCEM and the volunteer community, and most loudly in our core governing documents



The Sea Ranch is a vision, inspiring in its beauty; a concept, daring in its invention; a covenant with nature and the land. The Sea Ranch is a work of art, a single idea, a discrete piece of beauty in which successful structures become part of nature's tapestry. The Sea Ranch is a community drawn together by a shared vision and respect for its concept.

The Sea Ranch is a unique coastal community that was planned explicitly to harmonize with the natural setting and the building traditions of this region. The goals for development have been to understand the inherent, unique opportunities and limitations of each site, to respond to the forces of the sun and wind and to seek an appropriate fit with the topography and existing vegetation.

It must be assumed that all owners of property within The Sea Ranch, by virtue of their purchase of such property, are motivated by the character of the natural environment in which their property is located, and accept, for and among themselves, the principle that the development and use of The Sea Ranch must preserve that character for its present and future enjoyment by other owners.

Use of Commons must be conditioned by the premise that The Sea Ranch is a private residential community with an immutable commitment to the preservation of the natural environment.

This covenant forms a second cornerstone of The Sea Ranch sense of place. It defines the appropriate relationship between people and the environment, and finds expression in its commitment to restoration, integration, and sustainable stewardship. The Sea Ranch designers prioritized restoration of the natural setting at the onset of their project.

How will we make use of this data?

Infinite applications for a robust database



An essential reference tool for the Design Committee to help insure that architectural planning and environmental management continue to be based upon a solid knowledge and respect for shared resources.

Like the Commons Landscape Plan, the HRS will be a comprehensive inventory, so that the Design Committee knows they are seeing the big picture while evaluating individual cases.

The Heritage Resources Survey and it's associated apps will be available to Sea Ranch members and committees, so they can explore and interact with their community collaboratively.

Analysis across data sets will reveal the impact of one element on another, and we use this information to fine tune our approach to perpetuating and preserving our landscape as it navigates the environmental challenges ahead.

Which medium will we use to communicate the data?

LANDFORM + CLIMATE

HUMAN MADE + INFLUENCED

Geographic I nformation S ystems BIOTIC RESOURCES

a form of data visualization that overlaps layers of geographic information to construct interactive maps of interacting overlapping systems

INTEGRATED MAPS

USER APPLICATIONS











1.











Project Status



CONSULTATION WITH STAFF + COMMITTEES



MANAGEMENT PLAN



A Data Driven Approach Example Data Set



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MANAGEMENT PLAN



A Data Driven Approach Example Data Set



Black Point





Visualizing The Data



BIOTIC RESOURCES

federally threatened & endangered animal habitat wildlife migration routes micro habitat zones bluff Cypress windbreak Hedgerows sheep Grazing areas vegetative Zones Commons Landscape Committee stewardship actions rare or endangered plant + animal sightings landmark trees biodiversity areas forest + fuel management plans eucalyptus groves remnant orchards riparian channels



HUMAN MADE + INFLUENCED

architectural awards

parcel occupation and development status

unique ecological site treatment

member facilities

recreational areas

emergency infrastructure

TSRA utilities

public access points

highways + roads

hiking trails

historic indigenous heritage sites

historic European era sites

historic logging + ranching era sites

collaborative cultural history of sea ranch community



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	Big Tree Creek to Stengel Creek		
	FOREST AND MEADOWS		
ent	Madrone Meadow		
	08_A12		
eded	Retain forest front along Madrone Meadow with thinning along the north side at Highway 1.		
oility	Contractor or F&R, stewards		
	TSRA		
ction	2015		
ate	11/17/2016		
ie	roadside thinned by F+R		
S	Continue to monitor trees to ensure emergency access.		
vard	02/04/2018		
ard	05/15/2016		
Action	Re-planting cypress trees for hedgerow replacement		

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Leeward Meadow Trail

Trail # Name Segments Description

Photo

This is one of the first trails forged, in the know hikers should look for monarchs in the summer and stop by the seal rookery in April to scope out the newest members of our community!

232, 234, 235

1 Bluff Trail



loop

2

medium

30 mins

Type Loop or Through Difficulty USFS Class Av Duration Length (mi) Elevation Profile

Max Cross Slope20%Min Corridor Width5 ftMin Tread Width2 ftMin Corridor Height12+ ftProtrusion >3inyesRut Over >3innoTrail Posts132, 13AccessprivateAllowedbike, hoService RoadnoYear Forged1991ObstaclesseasonNotesThis tra



meadow, bluff, interpretive

Width5 ft#th2 ftHeight12+ ftnyesno132, 133A, 164privatebike, horsebike, horseno1991seasonal creek, sand, stairsThis trail is known for monarch
viewing in early October



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Panning **SE S**

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+ -123.436 38.691 Degrees

- ACTIVE + DORMANT LANDSLIDES
- FAULT LINES
- BLUFF EROSION
- F SEA RANCH COMMUNITY
- COLLABORATIVE CULTURAL HISTORY
- ERA SITES
- HISTORIC LOGGING + RANCHING
- ▶ HISTORIC EUROPEAN ERA SITES
- HERITAGE SITES
- HISTORIC INDIGENOUS
- HIKING TRAILS
- ▶ PUBLIC ACCESS POINTS HIGHWAYS + ROADS
- ▶ TSRA UTILITIES
- EMERGENCY INFRASTRUCTURE
- ▶ RECREATIONAL AREAS
- MEMBER FACILITIES
- ▶ UNIQUE ECOLOGICAL SITE TREATMENT
- DEVELOPMENT STATUS
- ▶ PARCEL OCCUPATION AND
- ARCHITECTURAL AWARDS
- RIPARIAN CHANNELS

- REMNANT ORCHARDS
- EUCALYPTUS GROVES
- BIODIVERSITY AREAS FOREST + FUEL MANAGEMENT PLANS
- LANDMARK TREES
- + ANIMAL SIGHTINGS
- RARE OR ENDANGERED PLANT
- COMMITTEE STEWARDSHIP ACTIONS
- COMMONS LANDSCAPE
- VEGETATIVE ZONES
- SHEEP GRAZING AREAS
- ▶ WINDBREAK HEDGEROWS
- BLUFF CYPRESS
- MICRO HABITAT ZONES
- WILDLIFE MIGRATION ROUTES
- ENDANGERED ANIMAL HABITAT

- **Operational layers**

📚 Layer List

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eritage Story Map

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Heritage Story Map Rare + Endangered Alert System

DC/DCEM Planning + Design Tool





Commons Landscape Management







Forward

Creating Institutional Memory

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compiling and proving a successful model for land -management

engaging with the community —of dedicated volunteers and —citizen scientists

-protecting the vision



GIS is one of many types of Data Visualization

Bubble Map

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Thé Heritage Resource Survey Co-Managing Our Shared Inheritance

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