



COUNTY OF MENDOCINO
DEPARTMENT OF PLANNING AND BUILDING SERVICES

860 NORTH BUSH STREET · UKIAH · CALIFORNIA · 95482
120 WEST FIR STREET · FT. BRAGG · CALIFORNIA · 95437

JULIA KROG, DIRECTOR
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pbs@mendocinocounty.org
www.mendocinocounty.org/pbs

February 8, 2023

Planning – Fort Bragg
Department of Transportation
Environmental Health - Fort Bragg
Building Inspection - Fort Bragg
Archaeological Commission
Sonoma State University
California Coastal Commission

Department of Forestry/ CalFire
-Land Use
California Department of Fish and Wildlife
United State Department of Fish and Wildlife
California State Parks & Recreation
United State Parks & Recreation

California State Parks Office of Historic Preservation
United States Bureau of Land Management
Cloverdale Rancheria
Redwood Valley Rancheria
Sherwood Valley Band of Pomo Indians
Redwood Coast Fire District

CASE#: CDP_2021-0015

DATE FILED: 3/3/2021

OWNER: POINT ARENA LIGHTHOUSE KEEPERS

APPLICANT: N. CA. COASTAL VETERANS MONUMENT

AGENT: MATTHIAS OPPLIGER, ARCHITECT

REQUEST: Standard Coastal Development Permit to construct a Veteran’s Memorial monument on the Point Arena Lighthouse Property, one (3) additional ADA parking pace, three (3) additional parking spaces and side walk.

LOCATION: In the Coastal Zone, approximately 2.5± miles northwest of Point Arena City Limits at the terminus of Lighthouse Road (CR 509), approximately 2 miles west of its intersection with State Route 1 (SR 1); located at 45500 Lighthouse Road, Point Arena; (APN: 133-030-01).

SUPERVISORIAL DISTRICT: 5 (Williams)

STAFF PLANNER: JESSIE WALDMAN

RESPONSE DUE DATE: February 22, 2023

PROJECT INFORMATION CAN BE FOUND AT:

www.mendocinocounty.org

Select “Government” from the drop-down; then locate Planning and Building Services/Public Agency Referrals.

Mendocino County Planning & Building Services is soliciting your input, which will be used in staff analysis and forwarded to the appropriate public hearing. You are invited to comment on any aspect of the proposed project(s). Please convey any requirements or conditions your agency requires for project compliance to the project coordinator at the above address, or submit your comments by email to pbs@mendocinocounty.org. Please note the case number and name of the project coordinator with all correspondence to this department.

We have reviewed the above application and recommend the following (please check one):

- No comment at this time.
Recommend conditional approval (attached).
Applicant to submit additional information (attach items needed, or contact the applicant directly, copying Planning and Building Services in any correspondence you may have with the applicant)
Recommend denial (Attach reasons for recommending denial).
Recommend preparation of an Environmental Impact Report (attach reasons why an EIR should be required).
Other comments (attach as necessary).

REVIEWED BY:

Signature _____ Department _____ Date _____

CASE: CDP_2021-0015

OWNER: POINT ARENA LIGHTHOUSE KEEPERS

APPLICANT: NORTHERN CALIFORNIA COASTAL VETERANS MONUMENT, INC, KENNETH JOWERS

AGENT: MATTHIAS OPPLIGER, ARCHITECT

REQUEST: Standard Coastal Development Permit to construct a Veteran’s Memorial monument on the Point Arena Lighthouse Property, one (3) additional ADA parking pace, three (3) additional parking spaces and side walk.

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APN: 133-030-01

PARCEL SIZE: 28± Acres

GENERAL PLAN: Open Space OS:R
ZONING: Open Space OS:R

EXISTING USES: Open Space (Public Facilities)

DISTRICT: 5 (Williams)

RELATED CASES: CDU_05-2002 (Improvements to Existing Uses); CDU_2016-0004 (Repairs to Existing Radio Equipment)

	<u>ADJACENT GENERAL PLAN</u>	<u>ADJACENT ZONING</u>	<u>ADJACENT LOT SIZES</u>	<u>ADJACENT USES</u>
NORTH:	Pacific Ocean	Pacific Ocean	Pacific Ocean	Pacific Ocean
EAST:	Agricultural AG60	Agricultural AG60	275± Acres	Pasture
SOUTH:	Pacific Ocean	Pacific Ocean	Pacific Ocean	Pacific Ocean
WEST:	Pacific Ocean	Pacific Ocean	Pacific Ocean	Pacific Ocean

REFERRAL AGENCIES

LOCAL

- Archaeological Commission
- Building Division (FB)
- Department of Transportation (DOT)
- Environmental Health (EH)
- Planning Division (Ukiah)
- Redwood Coast Fire District
- Sonoma State University

STATE

- California Department of Fish & Wildlife (CDFW)
- California State Parks& Recreation
- CALFIRE (Land Use)
- California Coastal Commission
- California State Parks Office of Historic Preservation (OHP)

FEDERAL

- US Fish & Wildlife Services (USFWS)
 - US Bureau of Land Management (BLM)
 - US Department of Parks & Recreation
- ### TRIBAL
- Cloverdale Rancheria
 - Redwood Valley Rancheria
 - Sherwood Valley Band of Pomo Indians
-

ADDITIONAL INFORMATION:

- Revised location, dated January 18, 2023 which supersedes previous referrals, dated October 18, 2021 and September 20, 2021
- *Biological Resources Report*, prepared by Sol Ecology, Inc, Dana Riggs, dated Updated August 25, 2022
- *Archaeological Resources Study*, prepared by Thomas Whitely of Anthropological Studies Center (ASC), Sonoma State University, dated March 2022; The project and survey were reviewed by ARCH on May 11, 2022, where the survey was accepted with additional recommendations, which advises the property owners of the “Discovery Clause” which prescribes the procedures subsequent to the discovery of any cultural resources during construction of the project and advises that an Archaeologist observe ground disturbing activities.

ENVIRONMENTAL DATA

1. MAC:

GIS

NO

2. FIRE HAZARD SEVERITY ZONE:

CALFIRE FRAP maps/GIS

N/A

3. FIRE RESPONSIBILITY AREA:

CALFIRE FRAP maps/GIS

*CalFire (State Responsible Agency) - CalFire #38-21
Fort Bragg Rural Fire Protection District (Local Responsible Agency)*

4. FARMLAND CLASSIFICATION:

GIS

Grazing Land (G)

5. FLOOD ZONE CLASSIFICATION:

FEMA Flood Insurance Rate Maps (FIRM)

NO

6. COASTAL GROUNDWATER RESOURCE AREA:

Coastal Groundwater Study/GIS

Marginal Water Resources

7. SOIL CLASSIFICATION:

Mendocino County Soils Study Eastern/Western Part

117—Cabrillo-Heeser complex, 0 to 5

8. PYGMY VEGETATION OR PYGMY CAPABLE SOIL:

LCP maps, Pygmy Soils Maps; GIS

NO

9. WILLIAMSON ACT CONTRACT:

GIS/Mendocino County Assessor's Office

NO

10. TIMBER PRODUCTION ZONE:

GIS

NO

11. WETLANDS CLASSIFICATION:

GIS

NO, Adjacent to Freshwater Emergant Wetland

12. EARTHQUAKE FAULT ZONE:

Earthquake Fault Zone Maps; GIS

NO

13. AIRPORT LAND USE PLANNING AREA:

Airport Land Use Plan; GIS

NO

14. SUPERFUND/BROWNFIELD/HAZMAT SITE:

GIS; General Plan 3-11

NO

15. NATURAL DIVERSITY DATABASE:

CA Dept. of Fish & Wildlife Rarefind Database/GIS

YES

16. STATE FOREST/PARK/RECREATION AREA ADJACENT:

GIS; General Plan 3-10

YES, Point Arena Lighthouse

17. LANDSLIDE HAZARD:

Hazards and Landslides Map; GIS; Policy RM-61; General Plan 4-44

NO

18. WATER EFFICIENT LANDSCAPE REQUIRED:

Policy RM-7; General Plan 4-34

NO

19. WILD AND SCENIC RIVER:

www.rivers.gov (Eel Only); GIS

NO

20. SPECIFIC PLAN/SPECIAL PLAN AREA:

Various Adopted Specific Plan Areas; GIS

NO

21. STATE CLEARINGHOUSE REQUIRED:

Policy

NO

22. OAK WOODLAND AREA:

USDA

NO

23. HARBOR DISTRICT:

Sec. 20.512

NO

FOR PROJECTS WITHIN THE COASTAL ZONE ONLY

24. LCP LAND USE CLASSIFICATION:

LCP Land Use maps/GIS

Land Use Map 24: Manchester Beach

25. LCP LAND CAPABILITIES & NATURAL HAZARDS:

LCP Land Capabilities maps/GIS; 20.500

Non-Prime Ag Land; Beach deposits and stream alluvium and terraces (Zone 3)

26. LCP HABITATS & RESOURCES:

LCP Habitat maps/GIS; 20.496

Barren

27. COASTAL COMMISSION APPEALABLE AREA:

Post LCP Certification Permit and Appeal Jurisdiction maps/GIS; 20.544

YES, Bluff Top

28. CDP EXCLUSION ZONE:

CDP Exclusion Zone maps/GIS

NO

29. HIGHLY SCENIC AREA:

Highly Scenic & Tree Removal Area Maps/GIS; Secs. 20.504.015, 20.504.020

HIGHLY SCENIC

30. BIOLOGICAL RESOURCES & NATURAL AREAS:

Biological Resources & Natural Area Map; GIS; General Plan 4-9

NO

31. BLUFFTOP GEOLOGY:

GIS; 20.500.020

NO

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 120 WEST FIR STREET
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 Telephone: 707-964-5379
 FAX: 707-961-2427
 pbs@co.mendocino.ca.us
 www.co.mendocino.ca.us/planning



Case No(s)	CDP-2021-0015
CDF No(s)	
Date Filed	3/3/21
Fee	\$6,536.55
Receipt No.	PRJ-040028
Received by	Tia Sar
Office Use Only	

COASTAL ZONE APPLICATION FORM

APPLICANT

Name Northern California Coastal Veterans Monument, Inc. *Kenneth W. Jones*
 Mailing Address PO Box 14
 City Point Arena State CA Zip Code 95468 Phone 707-357-2171

PROPERTY OWNER

Name Point Arena Light House Keepers, Inc.
 Mailing Address P.O. Box 11
 City Point Arena State CA Zip Code 95468 Phone 707-884-1448

AGENT

Name Matthias Oppliger, Architect
 Mailing Address PO Box 1441
 City Gualala State CA Zip Code 95445 Phone 707 684-0463

PARCEL SIZE

28

Square feet
 Acres

STREET ADDRESS OF PROJECT

45500 Lighthouse Rd., Point Arena, CA 95468

ASSESSOR'S PARCEL NUMBER(S)

133-030-0100

I certify that the information submitted with this application is true and accurate.

Kenneth W. Jones
 Signature of Applicant/Agent

2-22-21
 Date

[Signature]
 Signature of Owner

2/12/21
 Date

COASTAL ZONE - SITE AND PROJECT DESCRIPTION QUESTIONNAIRE

The purpose of this questionnaire is to relate information concerning your application to the Planning and Building Services Department and other agencies who will be reviewing your project proposal. Please remember that the clearer picture that you give us of your project and the site, the easier it will be to promptly process your application. Please answer all questions. Those questions which do not pertain to your project, please indicate "Not Applicable" or "N/A".

THE PROJECT

1. Describe your project and include secondary improvements such as wells, septic systems, grading, vegetation removal, roads, etc.

The Northern California Coastal Veterans Monument is a monument dedicated to veterans, their families and members of the community. It is located on a 0.213 acre easement near the south east corner of the Lighthouse property. The monument consist of six 10 ft high basalt monoliths, placed at the corners of a hexagon with 30 ft diameter. Along the hexagon's sides, elongated granite blocks provide seating. At the center, am "eternal flame", caved in honey calcite, is mounted on a granite base. Plaques with veterans' names engraved are located along a circular path leading around the monument. The monument is reached by a short walkway from a parking for three regular cars and one van accessible space. The project does not include any domestic water, electrical power, or sewage disposal utilities

2. If the project is residential, please complete the following:

TYPE OF UNIT	NUMBER OF STRUCTURES	SQUARE FEET PER DWELLING UNIT
<input type="checkbox"/> Single Family	N/A _____	_____
<input type="checkbox"/> Mobile Home	N/A _____	_____
<input type="checkbox"/> Duplex	N/A _____	_____
<input type="checkbox"/> Multifamily	N/A _____	_____

If Multifamily, number of dwelling units per building: N/A

3. If the project is commercial, industrial, or institutional, complete the following:

Total square footage of structures:	1,660 _____
Estimated employees per shift:	N/A _____
Estimated shifts per day:	N/A _____
Type of loading facilities proposed:	N/A _____

4. Will the proposed project be phased? Yes No
If Yes, explain your plans for phasing.

5. Are there existing structures on the property? Yes No

If yes, describe below and identify the use of each structure on the plot plan.

Lighthouse Tower, Fog Signal Building, South Oil Storage Building, North Oil Storage Building, public restrooms, four homes, wood shed, garden shed, water pump house, fire house, USCG helipad and fueling station, portable storage unit, two water tanks, entry post, FAA shed and gazebo. All structures are significant distance from the proposed construction site and will not be impacted by the monument.

6. Will any existing structures be demolished? Yes No
 Will any existing structures be removed? Yes No

If yes to either question, describe the type of development to be demolished or removed, including the relocation site, if applicable.

N/A

7. Project Height. Maximum height of structure 10 feet.

8. Lot area (within property lines): 28 property/ 0.213 easement square feet acres

9. Lot Coverage:

	EXISTING	NEW PROPOSED	TOTAL
Building coverage	<u>0</u> square feet	<u>0</u> square feet	<u>0</u> square feet
Paved area	<u>0</u> square feet	<u>2,415</u> square feet	<u>2,415</u> square feet
Landscaped area	<u>0</u> square feet	<u>0</u> square feet	<u>0</u> square feet
Unimproved area	<u>0</u> square feet	<u>0</u> square feet	<u>6,885</u> square feet

GRAND TOTAL: 9,300 (easement) square feet
 (Should equal gross area of parcel)

10. Gross floor area: N/A square feet (including covered parking and accessory buildings).

11. Parking will be provided as follows:

Number of Spaces	Existing <u>40</u>	Proposed <u>4</u>	Total <u>44</u>
Number of covered spaces	<u>0</u>		Size _____
Number of uncovered spaces	<u>44</u>		Size <u>9' x 18'</u>
Number of standard spaces	<u>41</u>		Size <u>9' x 18'</u>
Number of handicapped spaces	<u>2 existing, 1 proposed van accessible</u>		Size <u>9' x 18'</u>

12. Utilities will be supplied to the site as follows:

A. Electricity

- Utility Company (service exists to the parcel).
 Utility Company (requires extension of services to site: _____ feet _____ miles)
 On Site generation, Specify: _____
 None

B. Gas

- Utility Company/Tank
 On Site generation, Specify: _____
 None

C. Telephone: Yes No

13. Will there be any exterior lighting? Yes No

If yes, describe below and identify the location of all exterior lighting on the plot plan and building plans.

14. What will be the method of sewage disposal?

- Community sewage system, specify supplier _____
 Septic Tank
 Other, specify No sewage necessary.

15. What will be the domestic water source?

- Community water system, specify supplier _____
 Well
 Spring
 Other, specify No water source necessary.

16. Is any grading or road construction planned? Yes No

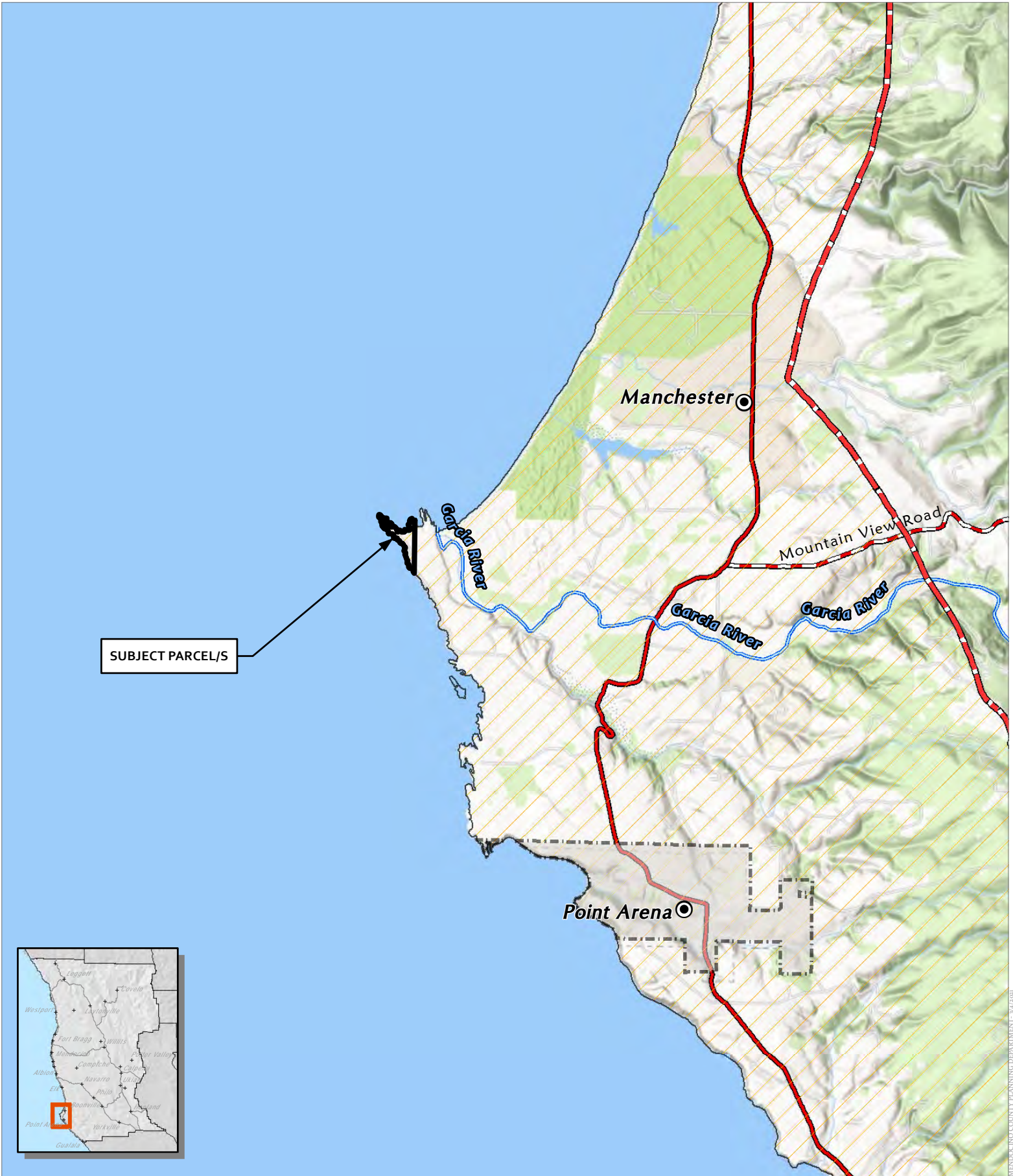
If yes, grading and drainage plans may be required. Also, describe the terrain to be traversed (e.g., steep, moderate slope, flat, etc.).

For grading and road construction, complete the following:

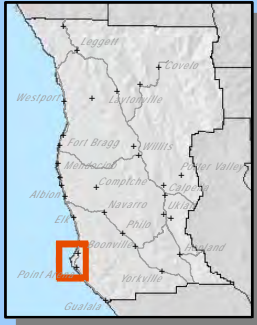
- A. Amount of cut: 0 cubic yards
B. Amount of fill: 0 cubic yards
C. Maximum height of fill slope: 0 feet
D. Maximum height of cut slope: 0 feet
E. Amount of import or export: 0 cubic yards
F. Location of borrow or disposal site: N/A

17.	Will vegetation be removed on areas other than the building sites and roads? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, explain:
18.	Does the project involve sand removal, mining or gravel extraction? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, detailed extraction, reclamation and monitoring may be required.
19.	Will the proposed development convert land currently or previously used for agriculture to another use? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how many acres will be converted? _____ acres (An agricultural economic feasibility study may be required.)
20.	Will the development provide public or private recreational opportunities? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, explain: Monument accessible to the public.
21.	Is the proposed development visible from: A. State Highway 1 or other scenic route? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No B. Park, beach or recreation area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
22.	Will the project involve the use or disposal of potentially hazardous materials such as toxic substances, flammables, or explosives? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, explain:
23.	Does the development involve diking, filling, dredging or placing structures in open coastal waters, wetlands, estuaries or lakes? A. Diking <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No B. Filling <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No C. Dredging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No D. Placement of structures in open coastal waters, wetlands, estuaries or lakes <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Amount of material to be dredged or filled? <u>N/A</u> cubic yards. Location of dredged material disposal site: <u>N/A</u> Has a U.S. Army Corps of Engineers permit been applied for? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

If you need additional room to answer any question, attach additional sheets.

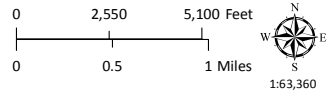


SUBJECT PARCEL/S



CASE: CDP 2021-0015
 OWNER: Point Arena Lighthouse Keepers, Inc.
 APN: 133-030-01
 APLCT: NorCal Coastal Veterans Monument, Inc.
 AGENT: Matthias Oppliger
 ADDRESS: 45500 Lighthouse Road, Point Arena

- Major Towns & Places
- ▭ City Limits
- ▭ Coastal Zone Boundary
- Highways
- Major Roads



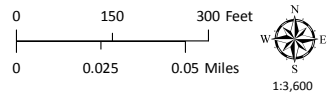
LOCATION MAP

MENDOCINO COUNTY PLANNING DEPARTMENT - 9/1/2021



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Public Roads





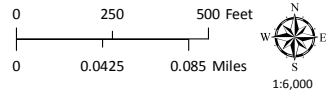
AERIAL IMAGERY

RENDERING BY TOWNING DEPARTMENT - 9/12/2021



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 APN: 133-030-01
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 ADDRESS: 45500 Lighthouse Road, Point Arena

-  Named Rivers
-  Public Roads



TOPOGRAPHIC MAP
 CONTOUR INTERVAL IS 40 FEET

MENDOCINO COUNTY PLANNING DEPARTMENT - 3/4/2021



Lands of Point Arena Light House Keepers, Inc.

REVISION
RECEIVED

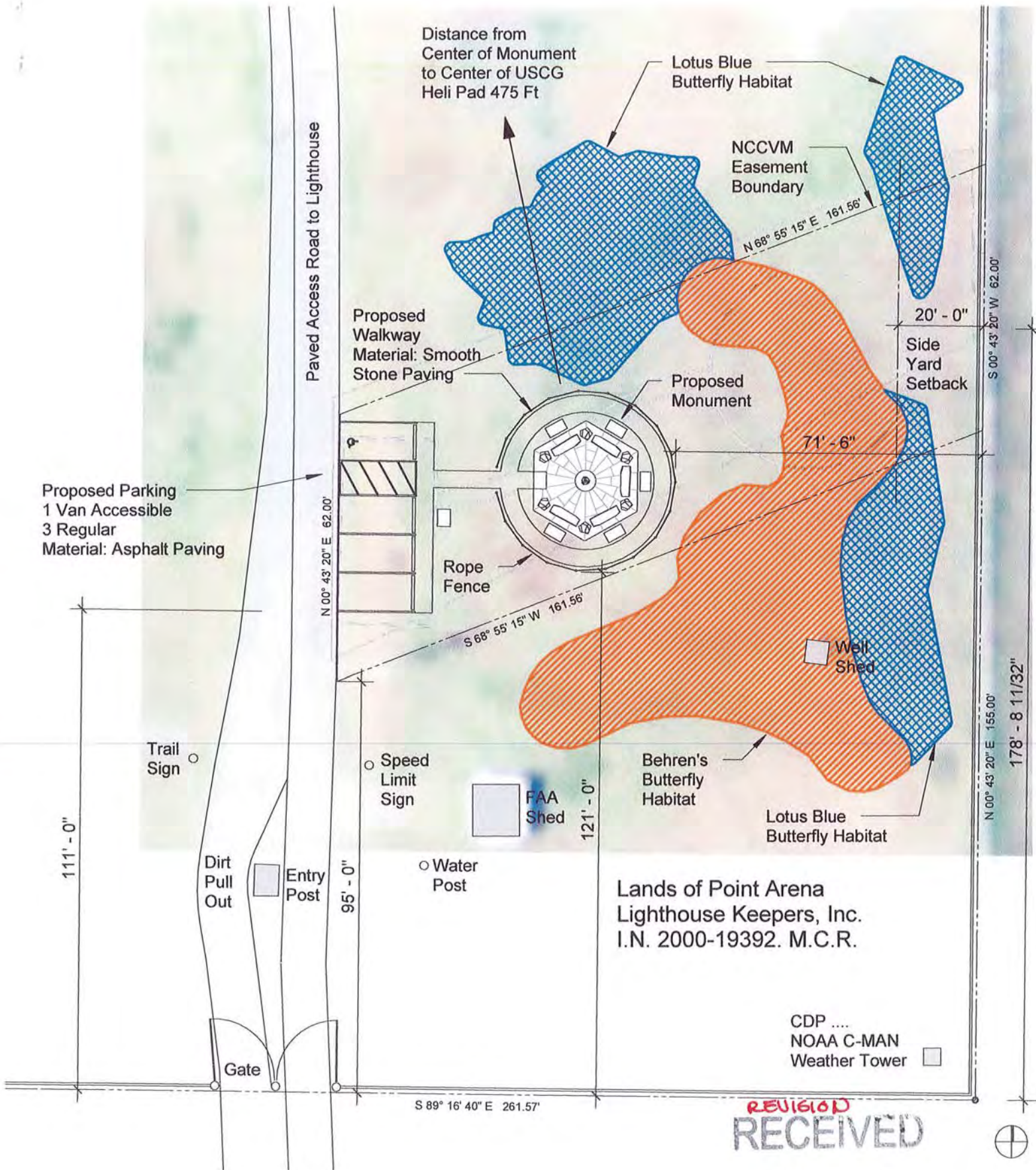
JAN 18 2023

PLANNING & BUILDING SERV
FORT BRAGG CA

Owner Northern California Coastal Veterans Monument
 Address 45500 Lighthouse Road
 Point Arena, CA 95468
 Architect Matthias Oppliger Architect
 Tel. 707.684.0463

Drawing
 Scale
 Issue
 Date

Location Map
 1 : 9600
 CDP 2021-0015, Revision 3
 11/11/22



REVISION
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JAN 18 2023

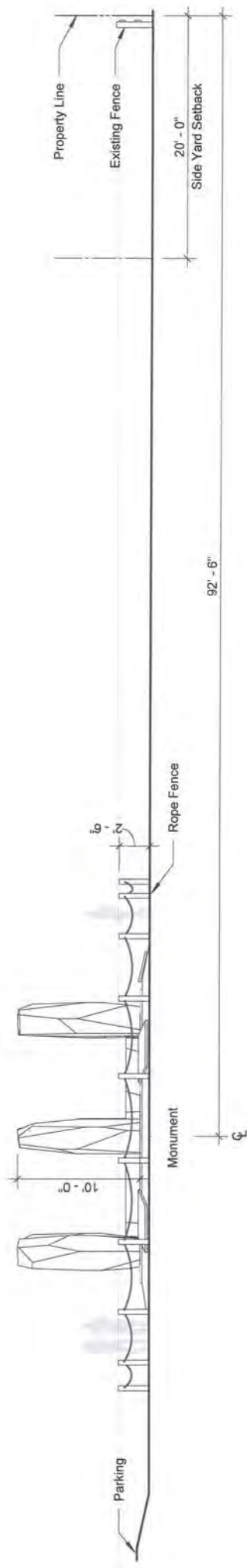
PLANNING & BUILDING SERV
FORT BRAGG CA

A-2

Owner Northern California Coastal Veterans Monument
 Address 45500 Lighthouse Road
 Point Arena, CA 95468
 Architect Matthias Oppliger Architect
 Tel. 707.684.0463

Drawing Scale
 Issue
 Date

Plot Plan
 1" = 30'-0"
 CDP 2021-0015, Revision 3
 11/11/22



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JAN 18 2023

PLANNING & BUILDING SERV
FORT BRAGG, CA

A-4

Drawing Elevation
Scale 1/8" = 1'-0"
Issue CDP 2021-0015, Revision 3
Date 11/1/22

Project Northern California Coastal Veterans Monument
Address 45500 Lighthouse Road
Point Arena, CA 95468
Architect Matthias Oppinger Architect
Tel. 707.684.0463



Project
Address
Architect

Northern California Coastal Veterans Monument
45500 Lighthouse Road
Point Arena, CA 95468
Matthias Oppliger Architect
Tel. 707.684.0463

Drawing
Scale
Issue
Date

Perspective View A
CDP 2021-0015, Revision 3
11/1/22

A-5



REVISION
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JAN 18 2023

PLANNING & BUILDING SERVICES
FORT BRAGG, CA

Project
Address
Architect

Northern California Coastal Veterans Monument
45500 Lighthouse Road
Point Arena, CA 95468
Matthias Oppliger Architect
Tel. 707.684.0463

Drawing
Scale
Issue
Date

Perspective View B
CDP 2021-0015, Revision 3
11/11/22



PLANNING & BUILDING SERV
FORT BRAGG CA

JAN 18 2023

REVISION
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Project
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Architect

Northern California Coastal Veterans Monument
45500 Lighthouse Road
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Drawing
Scale
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Perspective View C
CDP 2021-0015, Revision 3
11/11/22

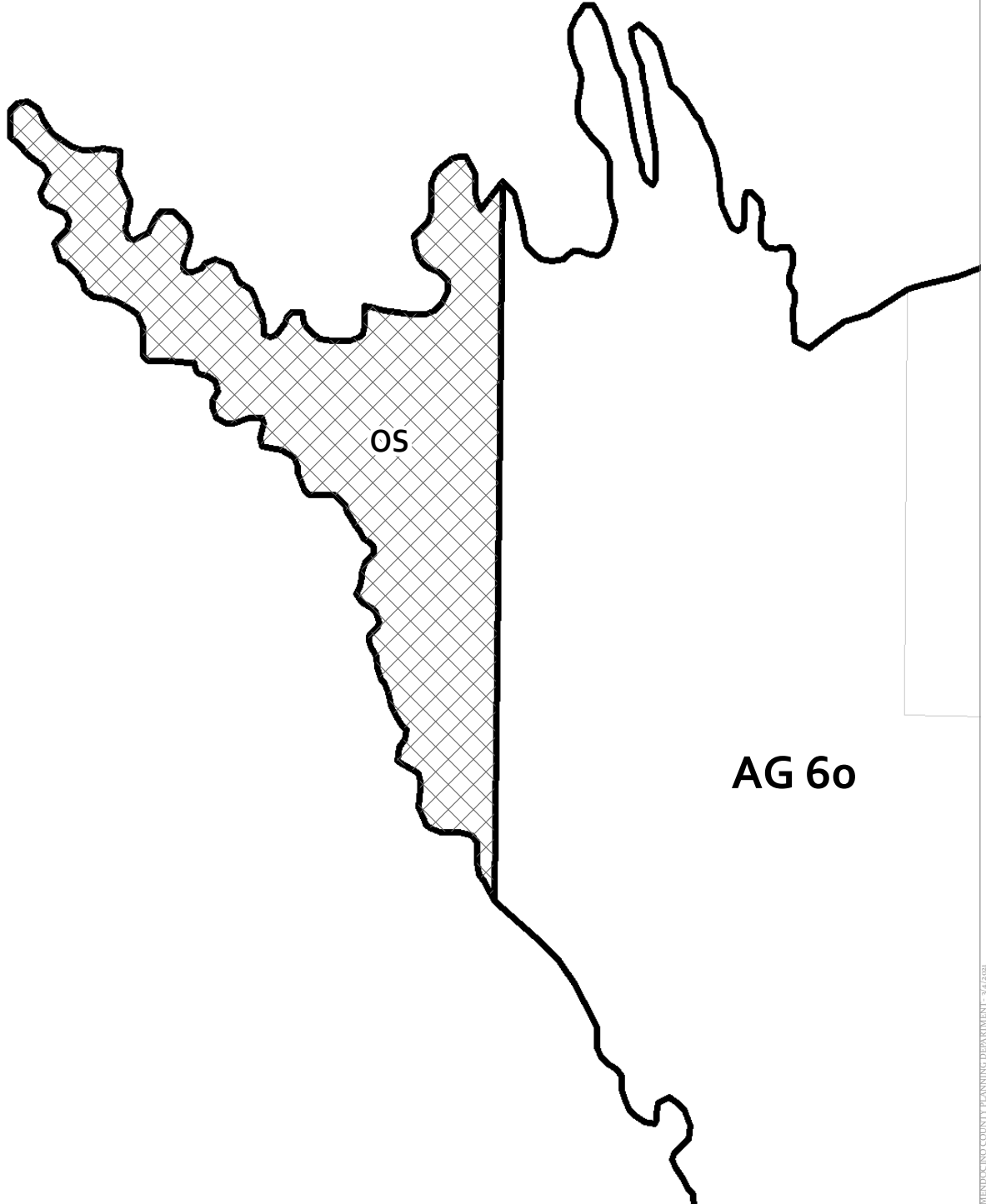


Drawing Scale Issue Date
 Perspective View D
 CDP 2021-0015, Revision 3
 11/11/22

Project Address Architect
 Northern California Coastal Veterans Monument
 45500 Lighthouse Road
 Point Arena, CA 95468
 Matthias Oppfeger Architect
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PLANNING & BUILDING
 FORT BRAG

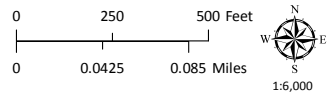
RECEIVED
 JAN 18 2023



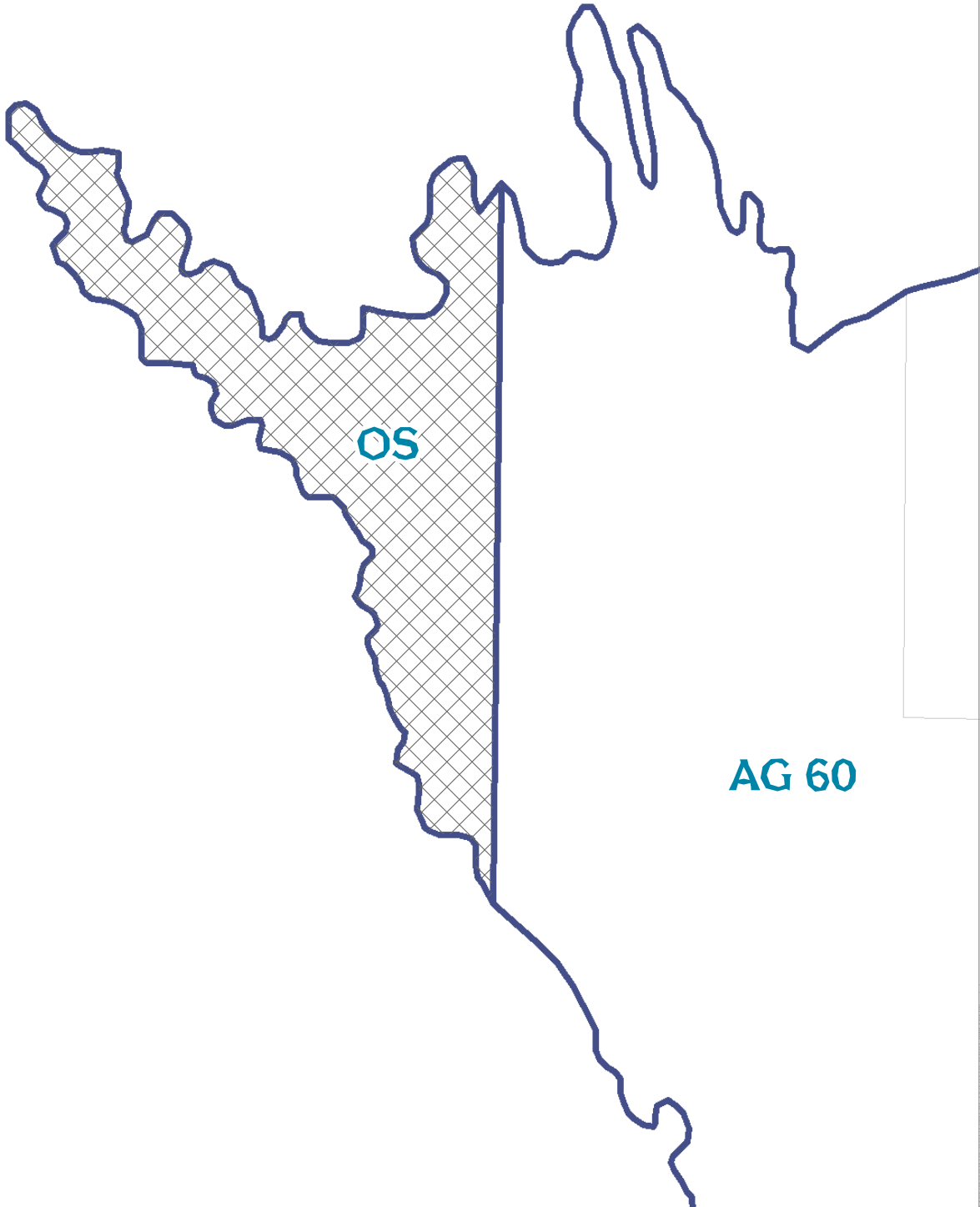
MENDOCINO COUNTY PLANNING DEPARTMENT - 3/4/2021

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OWNER: Point Arena Lighthouse Keepers, Inc.
APN: 133-030-01
APLCT: NorCal Coastal Veterans Monument, Inc.
AGENT: Matthias Oppliger
ADDRESS: 45500 Lighthouse Road, Point Arena


 Zoning Districts

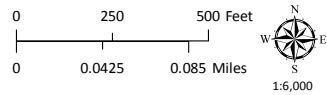


ZONING DISPLAY MAP



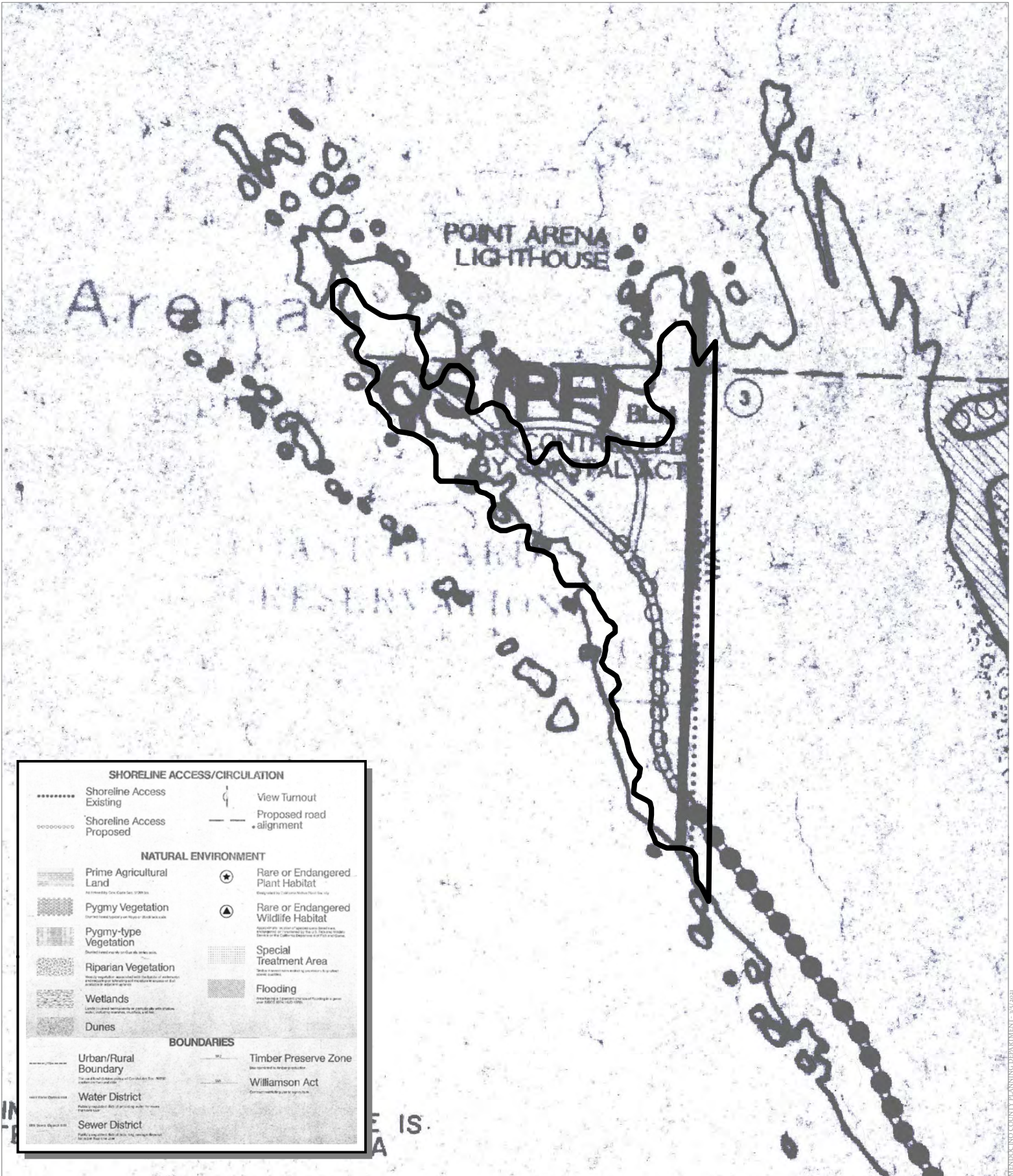
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 General Plan Classes

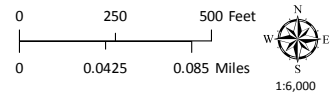


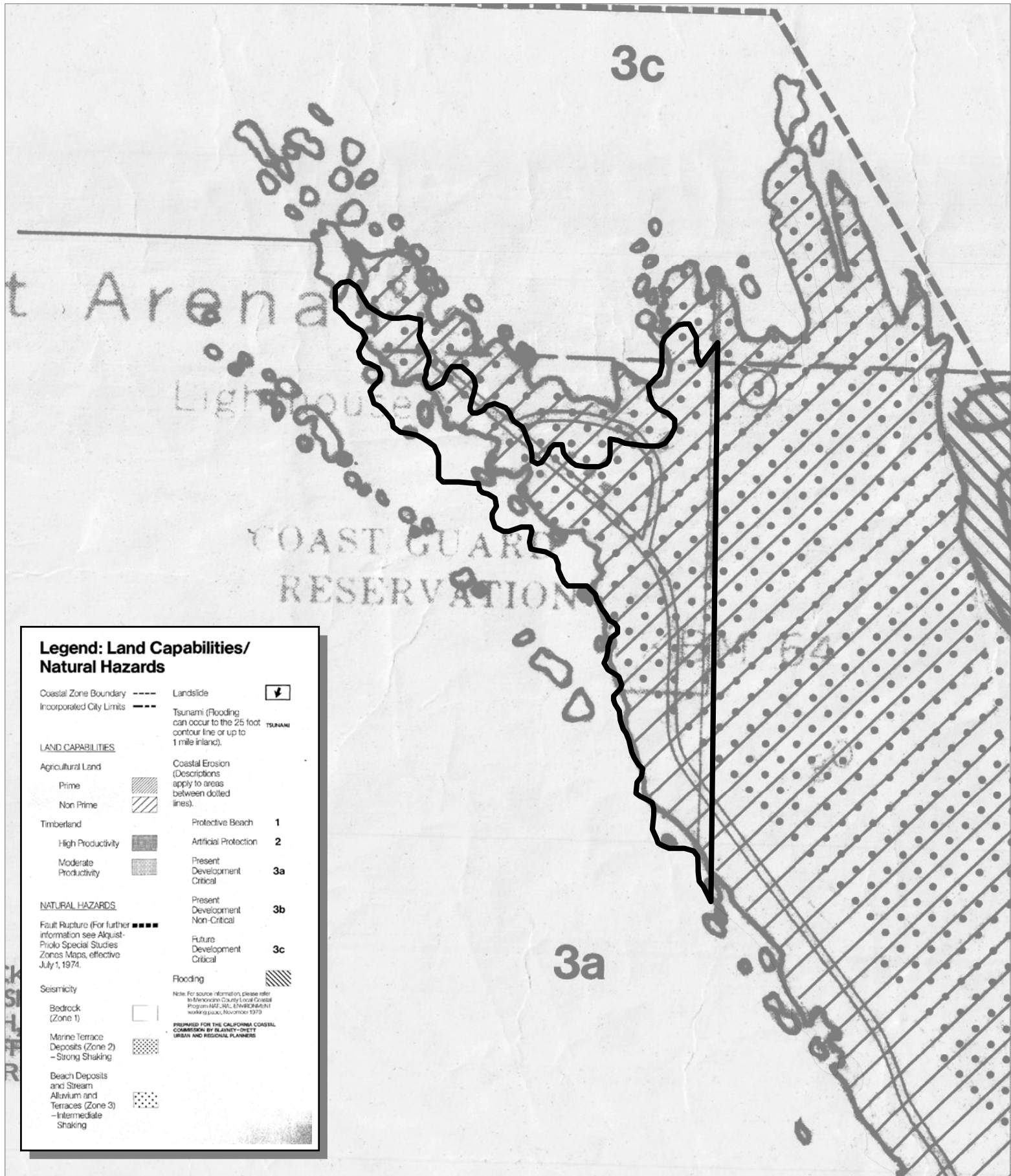
MENDOCINO COUNTY PLANNING DEPARTMENT - 3/5/2021

GENERAL PLAN CLASSIFICATIONS

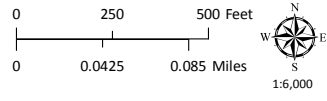


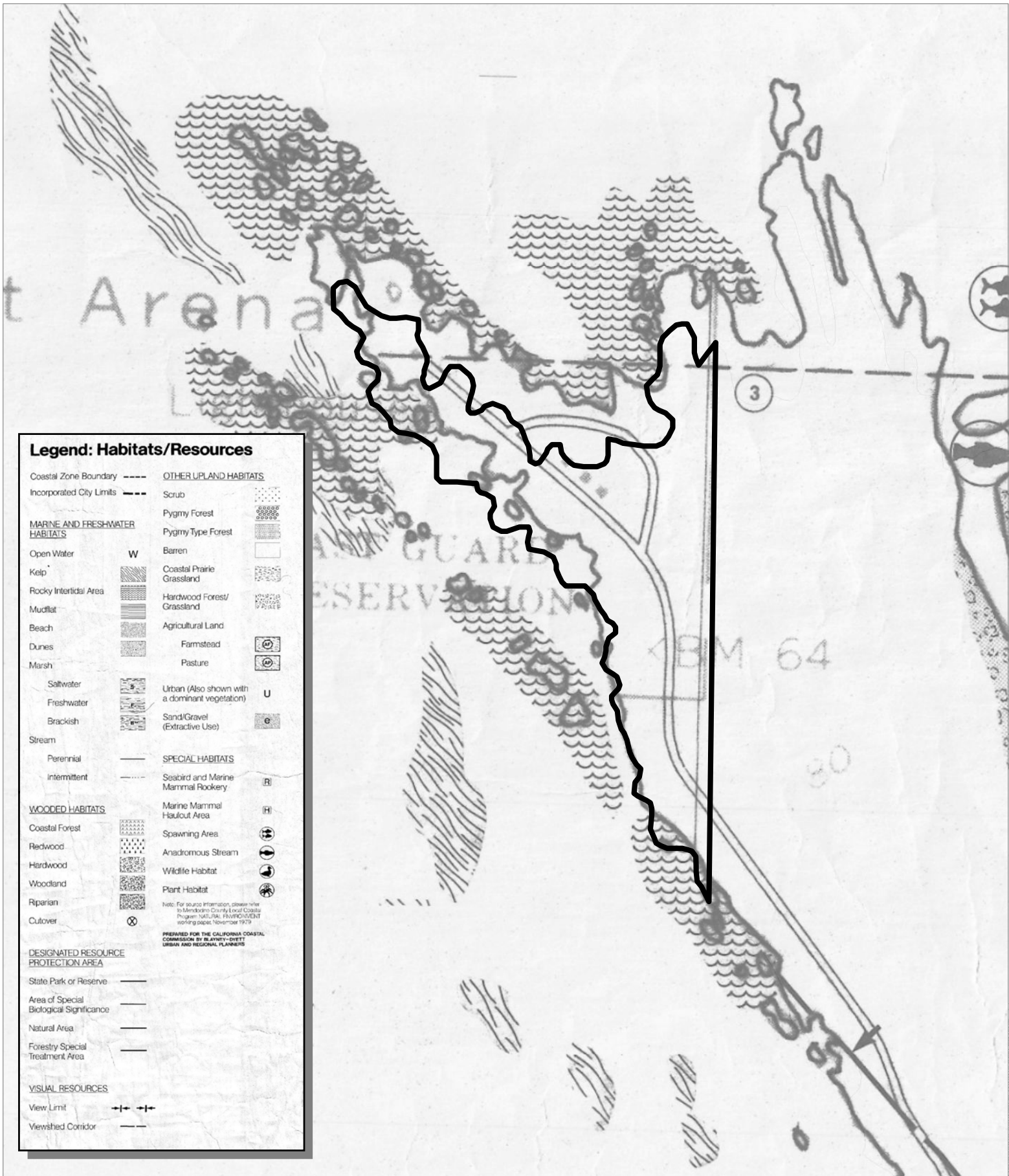
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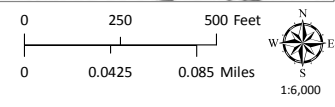
Legend: Habitats/Resources

Coastal Zone Boundary	----	OTHER UPLAND HABITATS	
Incorporated City Limits	----	Scrub	[Pattern]
MARINE AND FRESHWATER HABITATS			
Open Water	W	Pygmy Forest	[Pattern]
Kelp	[Pattern]	Pygmy Type Forest	[Pattern]
Rocky Intertidal Area	[Pattern]	Barren	[Pattern]
Mudflat	[Pattern]	Coastal Prairie Grassland	[Pattern]
Beach	[Pattern]	Hardwood Forest/Grassland	[Pattern]
Dunes	[Pattern]	Agricultural Land	[Pattern]
Marsh	[Pattern]	Farmstead	[Symbol]
Saltwater	[Symbol]	Pasture	[Symbol]
Freshwater	[Symbol]	Urban (Also shown with a dominant vegetation)	U
Brackish	[Symbol]	Sand/Gravel (Extractive Use)	e
Stream			
Perennial	—	SPECIAL HABITATS	
Intermittent	----	Seabird and Marine Mammal Rookery	[Symbol]
WOODED HABITATS			
Coastal Forest	[Pattern]	Marine Mammal Haulout Area	[Symbol]
Redwood	[Pattern]	Spawning Area	[Symbol]
Hardwood	[Pattern]	Anadromous Stream	[Symbol]
Woodland	[Pattern]	Wildlife Habitat	[Symbol]
Riparian	[Pattern]	Plant Habitat	[Symbol]
Cutover	[Symbol]		
DESIGNATED RESOURCE PROTECTION AREA			
State Park or Reserve	—		
Area of Special Biological Significance	—		
Natural Area	—		
Forestry Special Treatment Area	—		
VISUAL RESOURCES			
View Limit	---+---+---		
Viewshed Corridor	----		

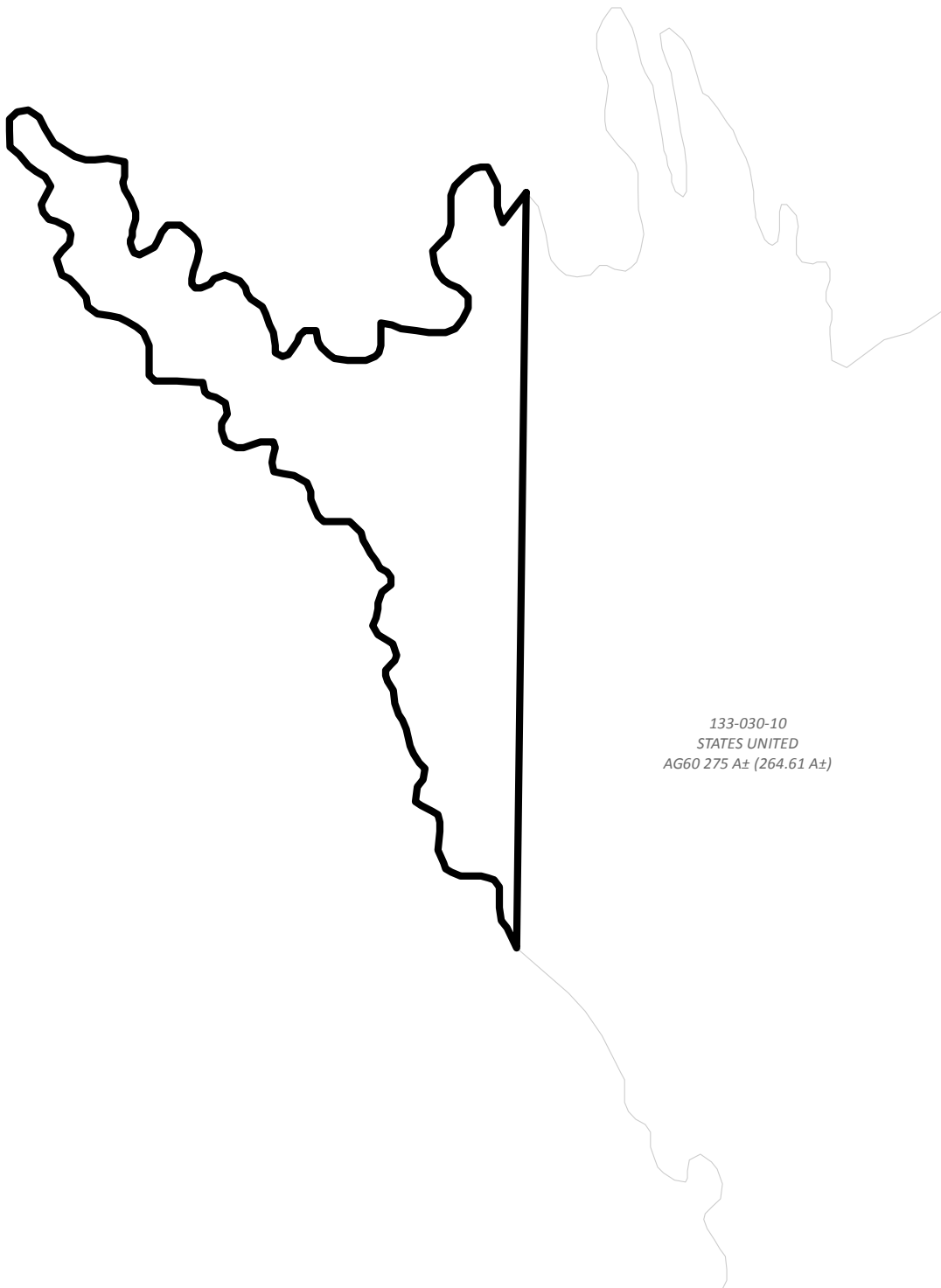
Note: For source information, please refer to Mendocino County Local Coastal Program NATURAL ENVIRONMENT working paper, November 1979.

PREPARED FOR THE CALIFORNIA COASTAL COMMISSION BY BLAKEY+DYETT URBAN AND REGIONAL PLANNERS

CASE: CDP 2021-0015
 OWNER: Point Arena Lighthouse Keepers, Inc.
 APN: 133-030-01
 APLCT: NorCal Coastal Veterans Monument, Inc.
 AGENT: Matthias Oppliger
 ADDRESS: 45500 Lighthouse Road, Point Arena

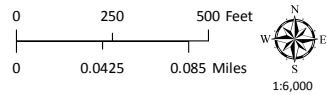


MENDOCINO COUNTY PLANNING DEPARTMENT - 3/5/2021



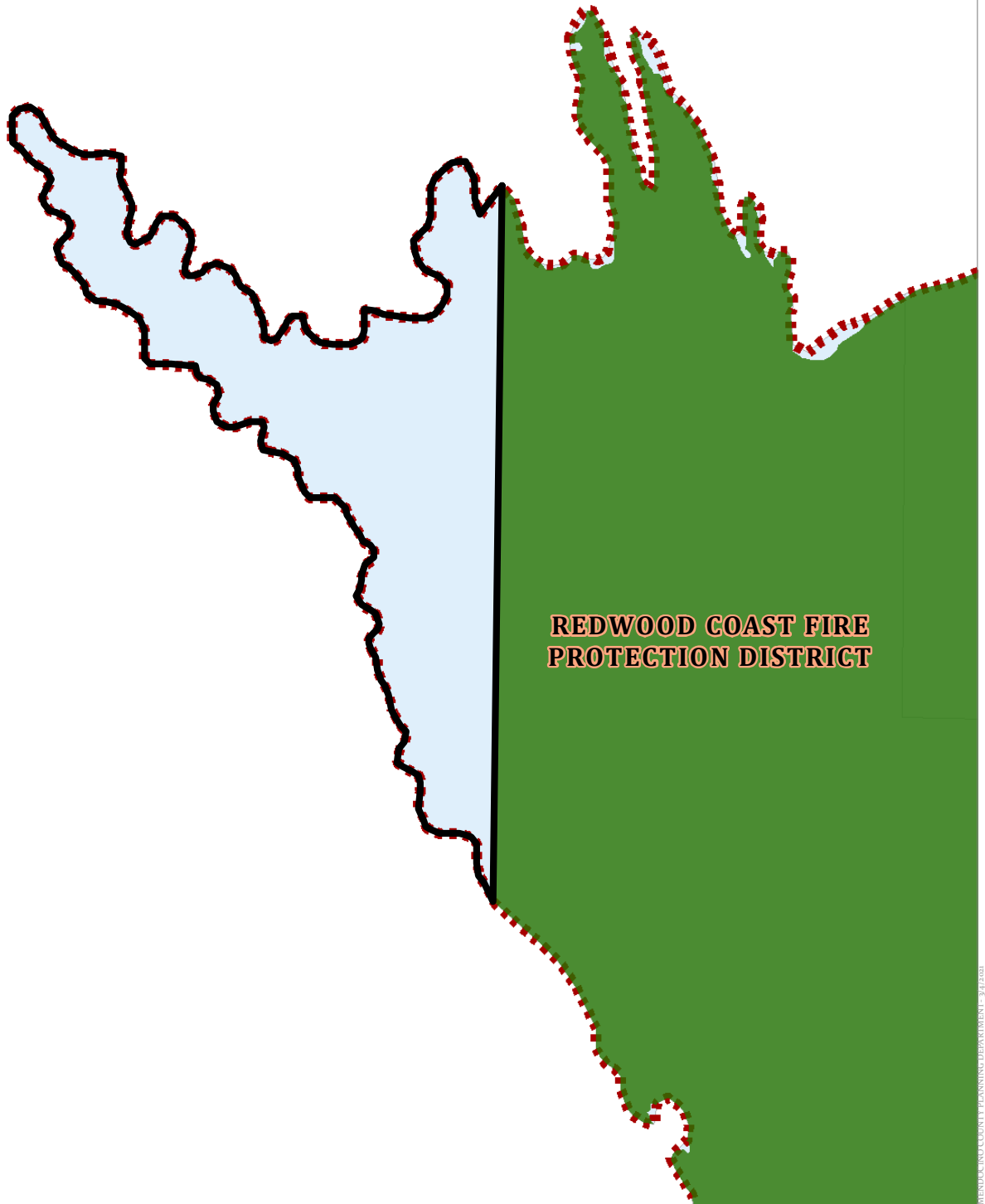
133-030-10
STATES UNITED
AG60 275 A± (264.61 A±)

CASE: CDP 2021-0015
OWNER: Point Arena Lighthouse Keepers, Inc.
APN: 133-030-01
APLCT: NorCal Coastal Veterans Monument, Inc.
AGENT: Matthias Oppliger
ADDRESS: 45500 Lighthouse Road, Point Arena



MENDOCINO COUNTY PLANNING DEPARTMENT - 3/4/2021

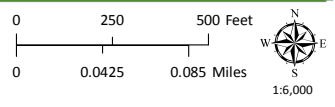
ADJACENT PARCELS



REDWOOD COAST FIRE PROTECTION DISTRICT

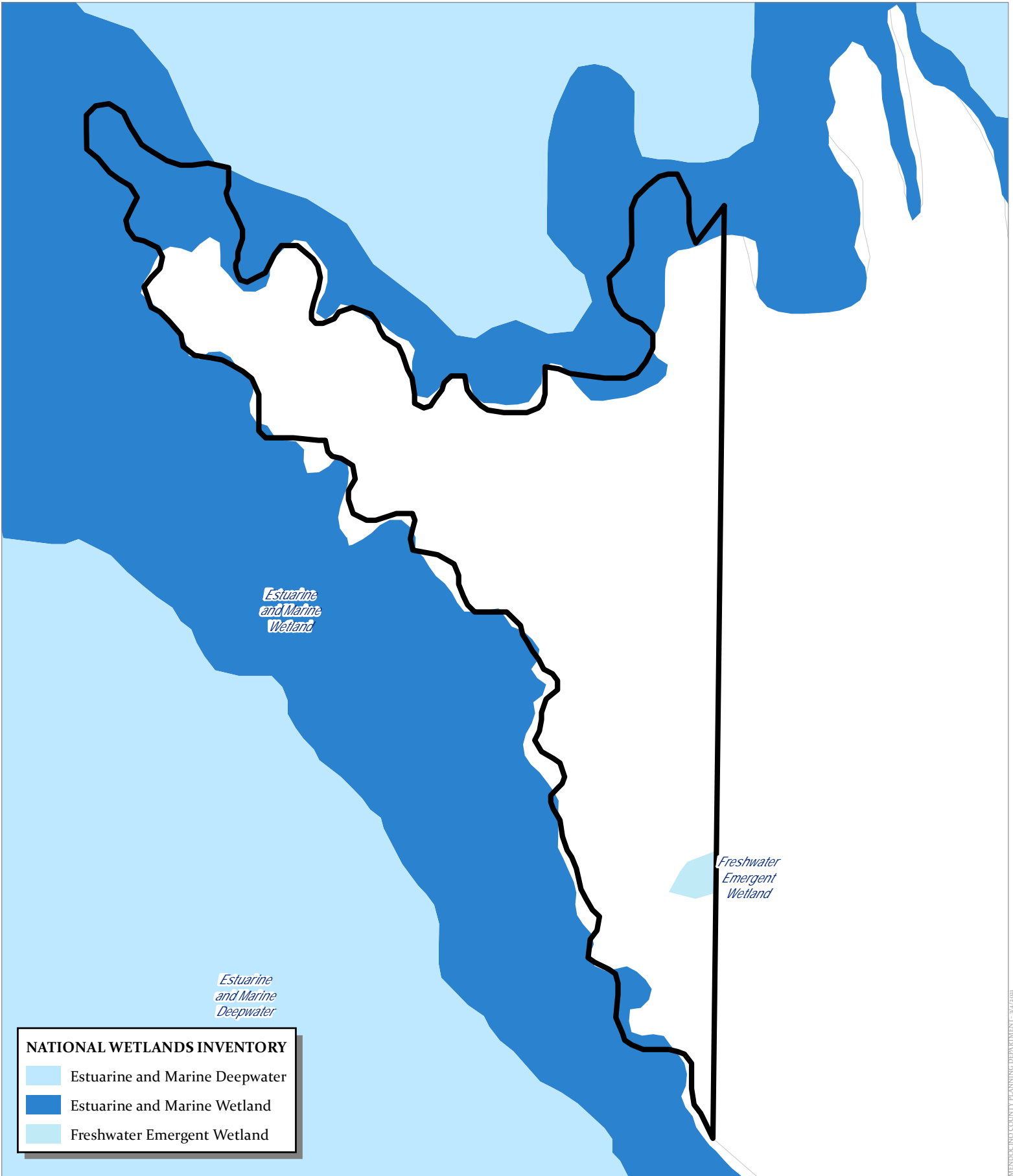
CASE: CDP 2021-0015
 OWNER: Point Arena Lighthouse Keepers, Inc.
 APN: 133-030-01
 APLCT: NorCal Coastal Veterans Monument, Inc.
 AGENT: Matthias Oppliger
 ADDRESS: 45500 Lighthouse Road, Point Arena

 FRA
 County Fire Districts



FIRE RESPONSIBILITY AREAS

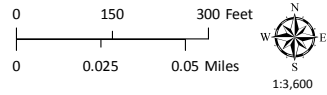
RENDERED BY COUNTY PLANNING DEPARTMENT 3/12/21



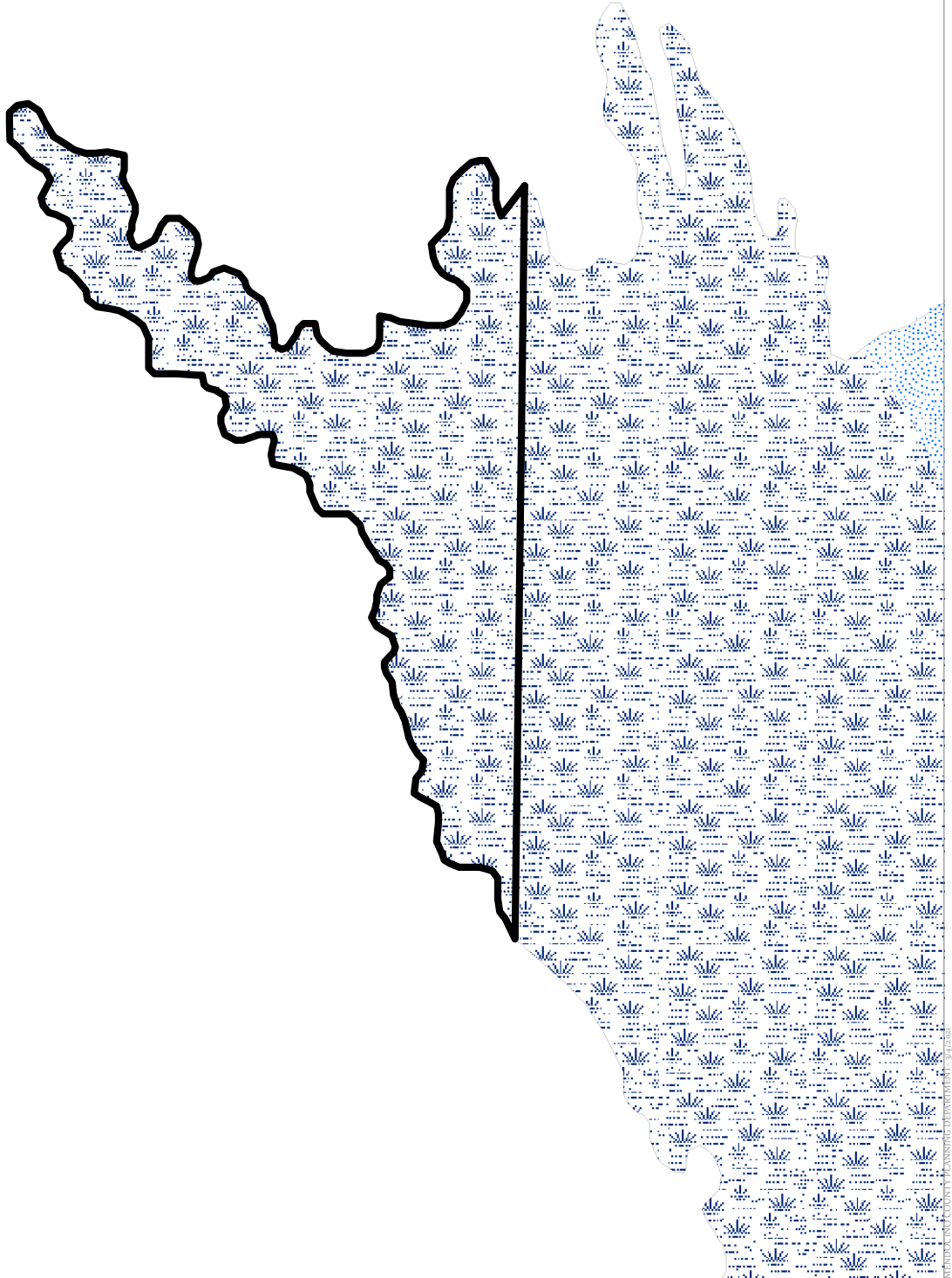
NATIONAL WETLANDS INVENTORY

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland



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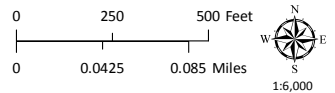


MENDOCINO COUNTY PLANNING DEPARTMENT - 3/4/2021

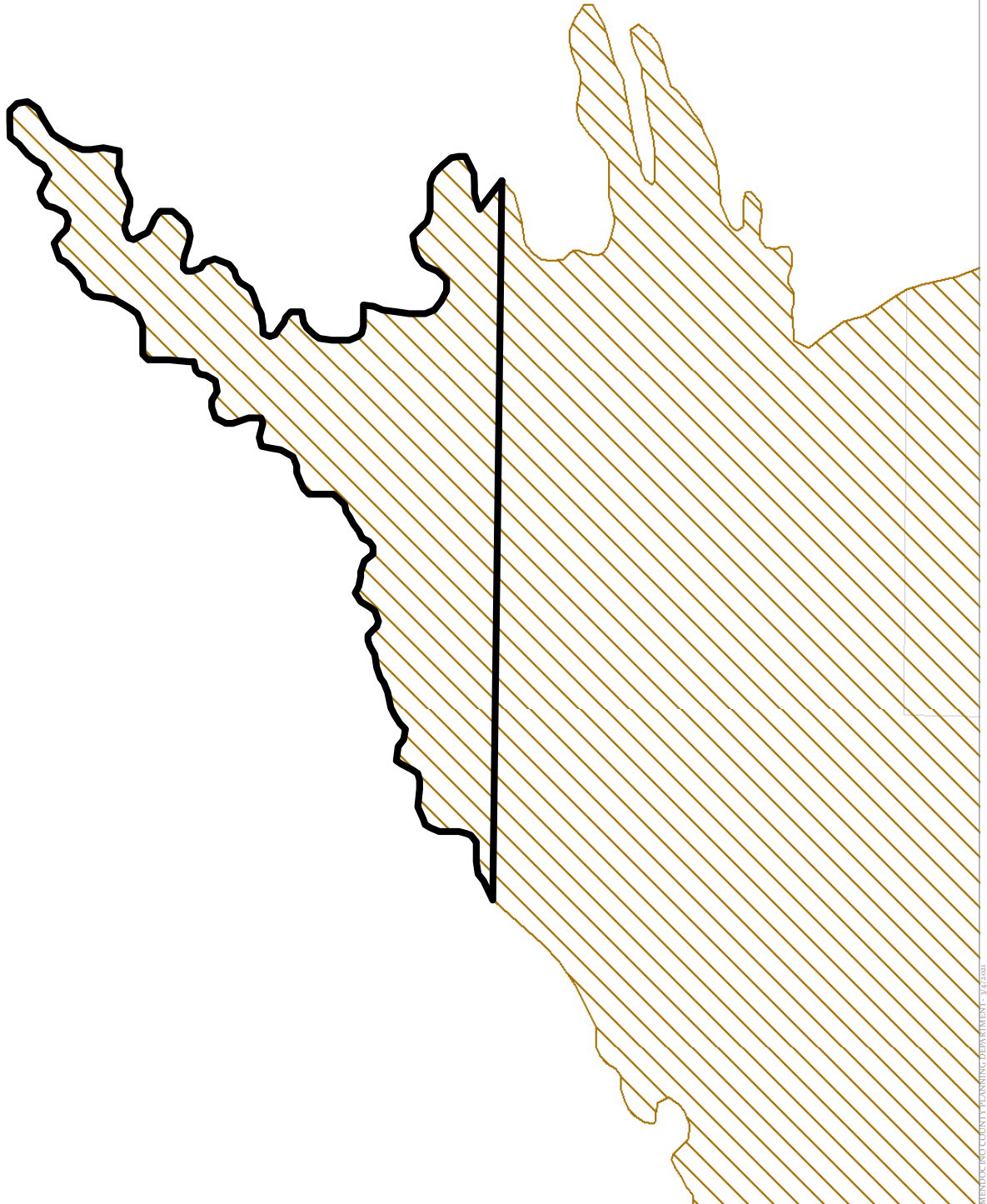


CASE: CDP 2021-0015
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 ADDRESS: 45500 Lighthouse Road, Point Arena

 Sufficient Water Resources
 Marginal Water Resources



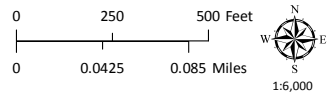
GROUND WATER RESOURCES



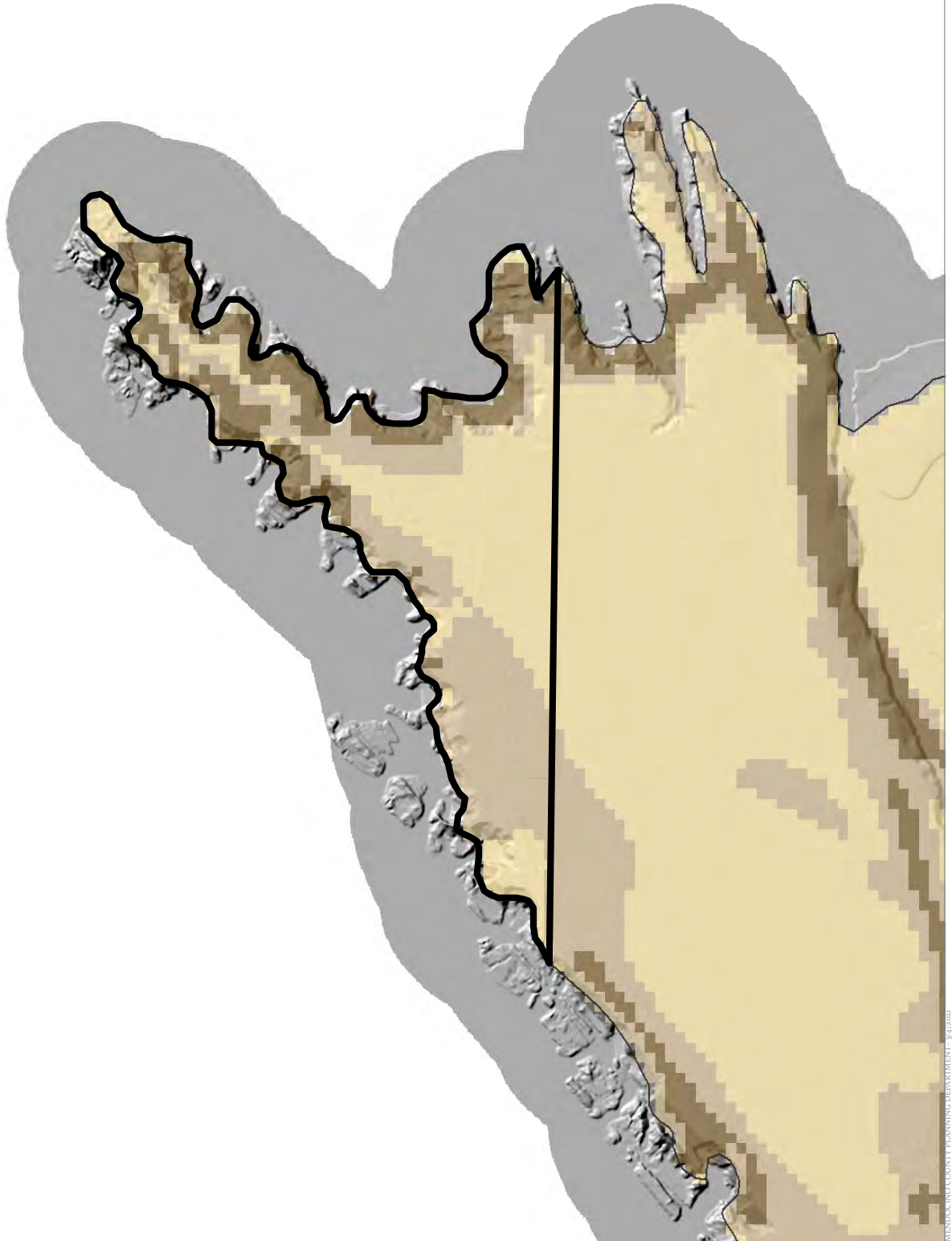
MENDOCINO COUNTY PLANNING DEPARTMENT - 3/4/2021

CASE: CDP 2021-0015
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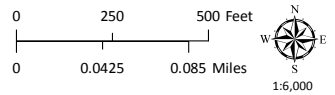
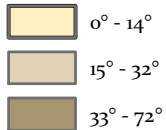
 Highly Scenic Area



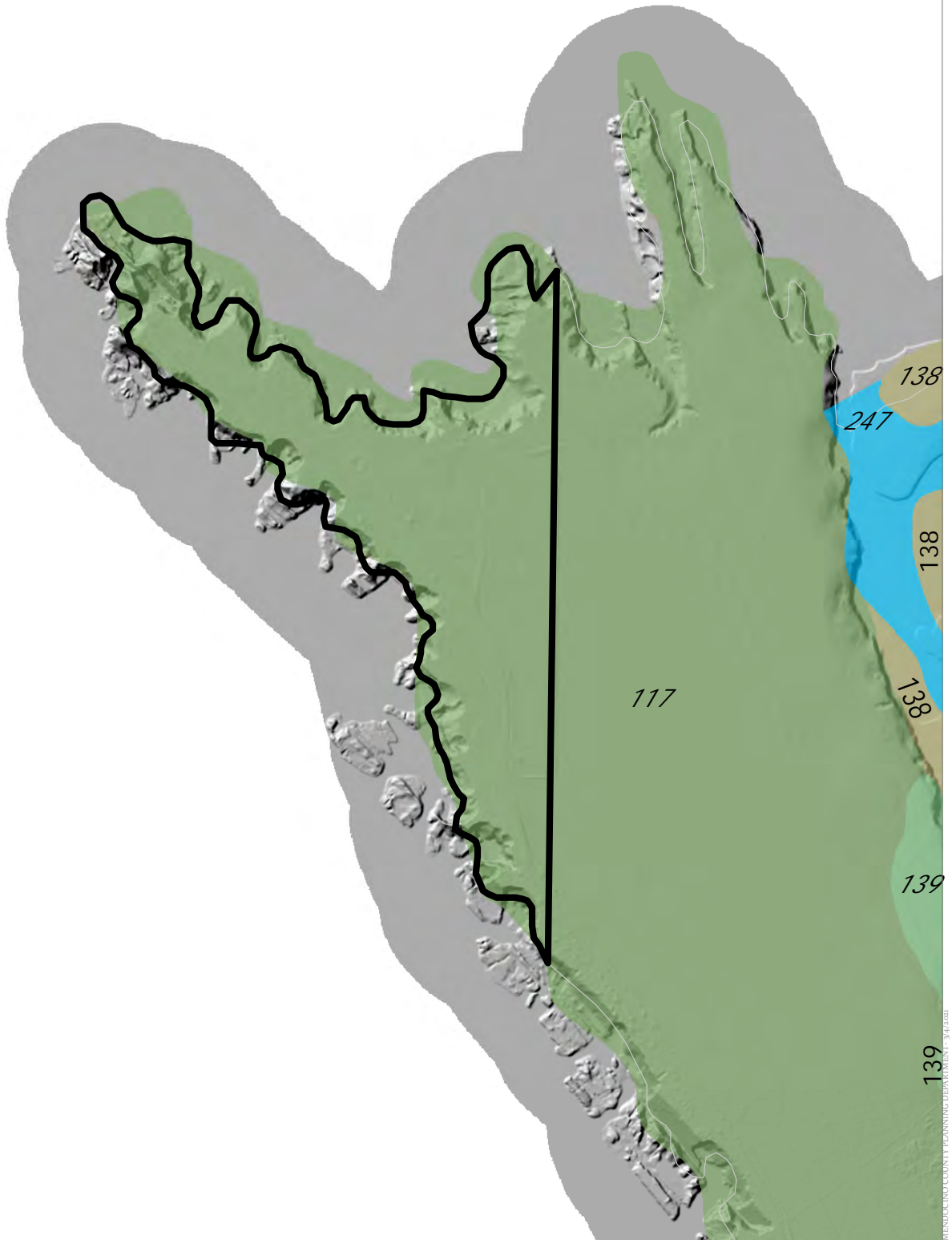
HIGHLY SCENIC & TREE REMOVAL AREAS



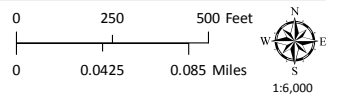
CASE: CDP 2021-0015
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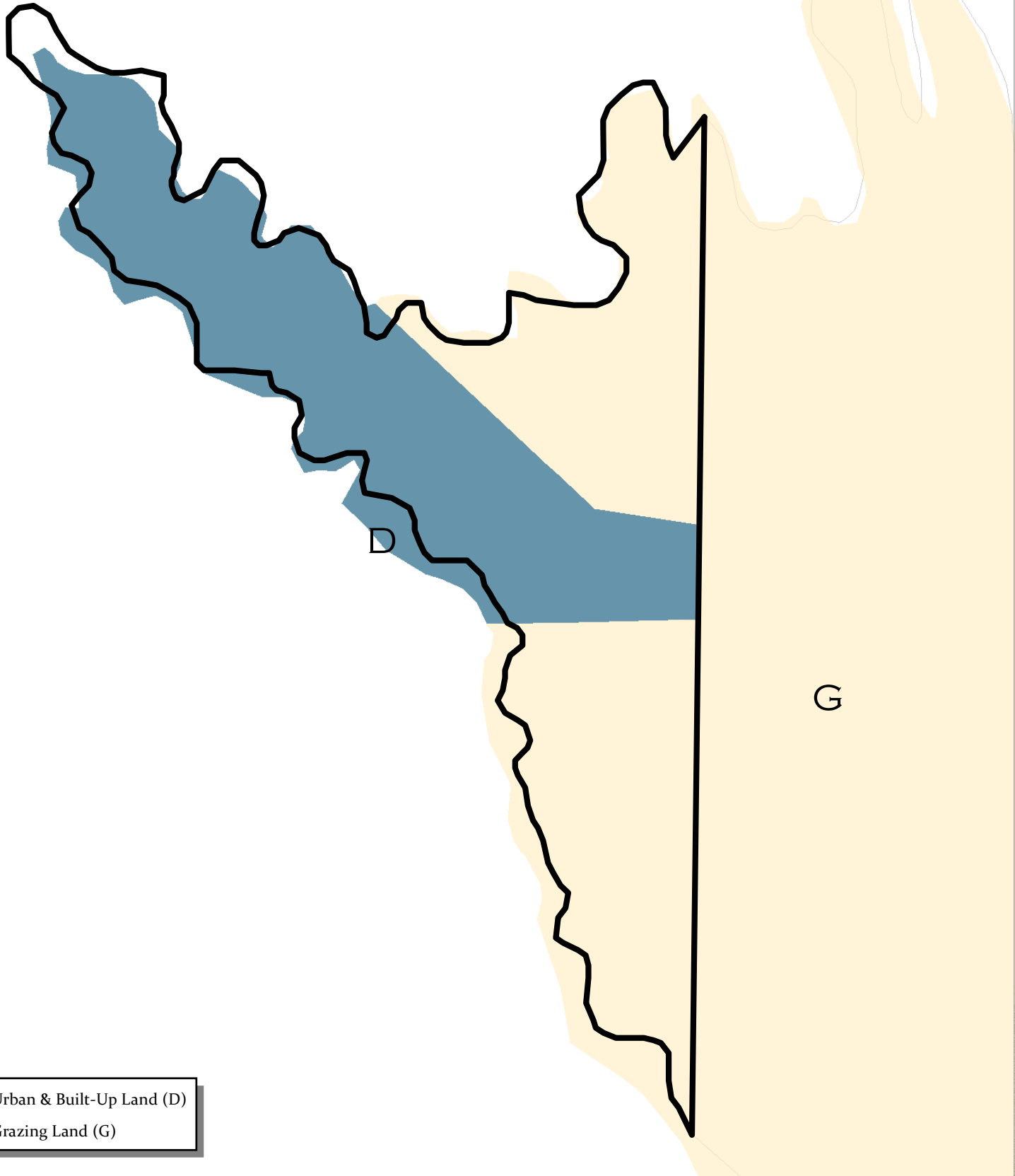
ESTIMATED SLOPE



CASE: CDP 2021-0015
 OWNER: Point Arena Lighthouse Keepers, Inc.
 APN: 133-030-01
 APLCT: NorCal Coastal Veterans Monument, Inc.
 AGENT: Matthias Oppliger
 ADDRESS: 45500 Lighthouse Road, Point Arena

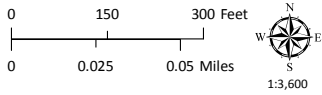


WESTERN SOIL CLASSES



- Urban & Built-Up Land (D)
- Grazing Land (G)

CASE: CDP 2021-0015
 OWNER: Point Arena Lighthouse Keepers, Inc.
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MENDOCINO COUNTY PLANNING DEPARTMENT - 3/4/2021

FARMLAND CLASSIFICATIONS



BIOLOGICAL RESOURCES REPORT

Northern California Coast
Veteran's Monument,
Mendocino County, CA

Prepared For:

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Northern California Coast
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July 18, 2022

Updated on August 25, 2022



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- Appendix B – Site Photographs
- Appendix C – Observed Species Table
- Appendix D – CNDDDB and USFWS IPaC Database Results Within 5 Quad Search of the Project Study Area

LIST OF ACRONYMS AND ABBREVIATIONS

USACE	U.S. Army Corps of Engineers
CDFG/CDFW	California Department of Fish and Game/Wildlife
CESA	California Endangered Species Act
CNDDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CWHR	California Wildlife Habitat Relationships
ESA	Federal Endangered Species Act
Inventory	CNPS Inventory of Rare and Endangered Plants
NCCVM	Northern California Coast Veterans Monument
Rank	California Rare Plant Rank
RWQCB	Regional Water Quality Control Board
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service

1.0 INTRODUCTION

On December 4, 2021, April 12, and on May 24, 2022, Sol Ecology, Inc. (Sol Ecology) performed a biological resources assessment at the Northern California Coast Veterans Monument (NCCVM) project site located at the Point Arena Lighthouse in Mendocino County, California (Project Study Area). The proposed project includes the Veterans Monument, pathway, and 3-car plus 1-ADA van parking area (Appendix A – Figure 1). The Project Study Area includes the proposed project site or “footprint” and any surrounding habitat that may be subject to potential indirect effects.

The purpose of the assessment was to gather information necessary to complete a review of potential biological resource impacts from development of the proposed Project, under the guidelines of the Mendocino County Local Coastal Plan. This report describes the results of the site surveys and assessment of the Project Study Area for the presence of sensitive biological resources protected by local, state, and federal laws and regulations including the Clean Water Act, Endangered Species Act (ESA), Porter Cologne Act, the California Endangered Species Act (CESA), the Plant Protection Act, and California Fish and Game Code. This report also contains an evaluation of potential impacts to sensitive biological resources that may occur from the proposed project and recommended avoidance and minimization measures necessary to comply with legal requirements. This assessment is based on information available at the time of the study and on-site conditions that were observed on the date of the site visit.

1.1 Project Setting

The Project Study Area is located at 45500 Lighthouse Way, in Point Arena, California. The site may be accessed via Lighthouse Way from State Highway 1; the site is located on the north side of the road just inside the gate of the lighthouse property at the terminus of Lighthouse Way. The approximately 0.064-acre project footprint is located within a 0.21-acre easement which constitutes the Project Study Area as shown in Appendix A, Figure 4. The site is surrounded by the Point Arena – Stornetta Public Lands Unit to the north, east, and south, and the lighthouse and Pacific Ocean to the west.

1.2 Project Description

The proposed project will provide a monument dedicated to veterans, their families, and members of the community on a 0.21-acre easement near the southeast corner of the lighthouse property. The monument consists of six 10 ft high basalt monoliths, placed at the corners of a hexagon with 30 ft diameter. Along the hexagon’s sides, elongated granite blocks provide seating. At the center, an “eternal flame”, caved in honey calcite, will be mounted on a granite base. Plaques with veterans’ names engraved will be along a circular path leading around the monument. The monument will be reached by a short walkway from a parking for three regular cars and one van accessible space. The project does not include any domestic water, electrical power, or sewage disposal utilities. The monument and pathway will be constructed by stone artisans working with hand tools. Grubbing and light leveling will be performed using a mini excavator and will be initiated between September 1 and March 1 to avoid sensitive species in

the area including nesting migratory birds and/or special status pollinators (e.g., butterflies and bees). Fencing will be placed between activities and occupied habitat by Lighthouse staff to prevent trampling of sensitive plants on the property. Dust control practices will also be implemented. The total area of permanent direct impact will be 0.064 acre.

2.0 METHODS

On December 4, 2021, the Project Study Area was traversed on foot to determine the presence of (1) plant communities both sensitive and non-sensitive, (2) special status plant and wildlife species, and (3) presence of essential habitat elements for any special-status plant or wildlife species. Rare plant surveys were performed on April 12 and May 24, 2022. Photographs of the site are provided in Appendix B. Species identified during the site visit and plant surveys are provided in Appendix C.

2.1 Literature Review

Prior to the site visit, a desktop analysis was performed to evaluate whether special status species or other sensitive biological resources (e.g., wetlands) could occur in the study area and vicinity. Sol Ecology biologists reviewed the following:

- California Native Plant Society's (CNPS's) A Manual of California Vegetation Online Edition (CNPS 2022a)
- USFWS National Wetlands Inventory, Wetlands Mapper (USFWS 2022a)
- U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS), Web Soil Survey (USDA 2019)
- CNPS's Inventory of Rare and Endangered Plants of California search for U.S. Geological Survey (USGS) 7.5-minute Point Arena quadrangle and 5 adjacent quadrangles (CNPS 2022b)
- California Natural Diversity Database (CNDDDB) search for USGS 7.5-minute Point Arena quadrangle and five adjacent quadrangles (CDFW 2022, Appendix D)
- USFWS Information for Planning and Conservation Species Lists (USFWS 2022b; Appendix D)
- CDFG publication "California's Wildlife, Volumes I-III" (Zeiner et al. 1990)
- CDFG publication *California Bird Species of Special Concern* (Shuford and Gardali 2008)
- CDFW and University of California Press publication *California Amphibian and Reptile Species of Special Concern* (Thomson et al. 2016)

2.2 Field Survey

The Project Study Area was evaluated for the presence of sensitive biological communities, including riparian areas, sensitive plant communities recognized by CDFW and/or the local coastal plan, County-mapped riparian corridors, habitat connectivity corridors, and scenic corridors. Sensitive communities were identified following A Manual of California Vegetation,

Online Edition and includes California Wildlife Habitat Relationships (CWHR) habitat classifications.

Sol Ecology biologists also performed reconnaissance-level surveys for special status species on and adjacent to the Project Study Area on December 4, 2021. The focus of the surveys was to identify whether suitable habitat elements for each of the special status species documented in the surrounding vicinity are present on the Project Study Area or not and whether the project would have the potential to result in impacts to any of these species and/or their habitats either on- or off-site. Habitat elements examined for the potential presence of sensitive plant species included: soil type, elevation, vegetation community, and dominant plant species. For wildlife species, habitat elements examined included the presence of dispersal habitat, foraging habitat, refugia or estivation habitat, and breeding (or nesting) habitat.

Protocol-level surveys for special status plants with potential to occur were also performed on April 12 and May 24, 2022, in accordance with CDFW protocol (CDFW 2018) and per USFWS technical guidance via email correspondence to include host plant species for Behren's butterfly and Lotis blue butterfly, known to occur in the greater surrounding area (Schmidt, Gregory pers. comm. 2022). The entire Project Area was traversed on foot and all observed plant species were recorded and identified with Jepson eFlora to a taxonomic level sufficient to determine rarity. All observed plant species were recorded (Appendix C – Observed Species Table)]. The results of the host plant surveys are provided in Appendix A, Figure 4.

In cases where little information is known about species occurrences and habitat requirements, the species evaluation was based on best professional judgment of Sol Ecology biologists with experience working with the species and habitats. If a special-status species was observed during the site visit, its presence is recorded and discussed. For some threatened and endangered species, a site survey at the level conducted for this report may not be sufficient to determine presence or absence of a species to the specifications of regulatory agencies.

2.2.1 Wetland Delineation

The Project Study Area was also surveyed to determine if any wetlands and waters potentially subject to jurisdiction by the U.S Army Corps of Engineers (Corps), Regional Water Quality Control Board (RWQCB), or CDFW are present or any 1-parameter coastal wetland subject to local coastal plan policies. This preliminary assessment was based primarily on evaluating for the presence of any wetland plant indicators, hydrology, or wetland soils. A preliminary waters assessment was based on the presence of unvegetated, ponded areas or flowing water, or evidence indicating their presence such as a high-water mark or a defined drainage course.

3.0 RESULTS

3.1 Existing Conditions and General Wildlife Use

Elevations within the Project Study Area are approximately 30 to 40 feet above mean sea level. The Project Study Area encompasses one soil map units identified by the USDA, NRCS (USDA 2019):

Cabrillo-Heeser sandy loam complex, 0 to 5 percent slopes:

This soil map unit is well drained and occurs in on marine terraces. Soil parent material is marine sediments. This soil type is not rated as hydric. Dominant vegetation is perennial grass. Major components include Cabrillo sandy loam (50%) and Heeser sandy loam (30%). Minor components include Crispin (5%), Biaggi (5%), Sirdrak (4%), Unnamed (3%) and Tropaquepts (3%).

Natural communities considered sensitive are those identified in local or regional plans, policies, regulations, including the Mendocino County Coastal Element or by the CDFW. Sensitive vegetation alliances are ranked 1 through 5 based on NatureServe's (2010) methodology, with those alliances ranked globally (G) or statewide (S) as 1 through 3 considered sensitive. Vegetation communities present in the Project Study Area were classified based on existing plant community descriptions described in the California Native Plant Society Online Manual of California Vegetation (CNPS 2022a). However, in some cases it is necessary to identify variants of community types or to describe non-vegetated areas that are not described in the literature. Vegetation communities were classified as non-sensitive or sensitive natural communities as defined by applicable laws and regulations.

No environmentally sensitive habitat areas (ESHAs) were identified on or within 100 feet of the project site, except for coastal prairie which encompasses the entire site and surrounding sites for several miles. Environmentally Sensitive Habitat Areas are defined in the Mendocino County Coastal Element as any areas in which plant or animal life or their habitats are either rare or especially valuable because of their special nature or role in an ecosystem and which could be easily disturbed or degraded by human activities and development.

Coastal Prairie

The Project Study Area and surrounding lands consist entirely of coastal prairie habitat. Coastal prairie habitat is dominated by native grasses and forbs including: seaside brome (*Bromus maritimus*), meadow barley (*Hordeum brachyantherum*), blue-eyed grass (*Sisyrinchium bellum*), California hedgenettle (*Stachys bullata*), redmaids (*Calandrinia menziesii*), sun cup (*Taraxia ovata*), thrift seapink (*Armeria maritima*), beach strawberry (*Fragaria chilaensis*), western field mouse-ear chickweed (*Cerastium viride*), seaside daisy (*Erigeron glaucus*), Bolander's goldenaster (*Heterotheca sessiflora ssp. Bolanderi*), and Menzies' baby blue eyes (*Nemophila menziesii*), among others. Common wildlife species in this habitat includes: Botta's pocket gopher (*Sceloporus occidentalis*), deer mouse (*Peromyscus maniculatus*), horned lark (*Eremophila*

alpestris), western meadowlark (*Sturnella neglecta*), song sparrow (*Melospida melodia*), and a variety of other native pollinator species (e.g., birds, butterflies, and bees). While the habitat on the lighthouse property is regularly mowed, it is relatively intact native coastal prairie habitat.

3.3 Special-Status Plants

Special-status species include those plants and wildlife species that have been formally listed, are proposed as endangered or threatened, or are candidates for such listing under the Federal Endangered Species Act (ESA) or California Endangered Species Act (CESA). These acts afford protection to both listed species and those that are formal candidates for listing. Plant species on the California Native Plant Society (CNPS) Rare and Endangered Plant Inventory (Inventory) with California Rare Plant Ranks (Rank) of 1 and 2 are also considered special-status plant species.

Based upon a review of the resources and databases given in Section 2.1, 42 special-status plant species have been documented within 9-quadrangle search of the Project Study Area, of which 24 species have been documented within a five-mile radius (Appendix A, Figure 2). Based on the presence of biological communities described above and soils at the site the Project Study Area has the potential to support 9 of these species; these species are described in Table 1 below.

Species documented in the area are unlikely or have no potential to occur on the Project Study Area for one or more of the following reasons:

- Hydrologic conditions (e.g. marsh habitat, seeps, pond habitat) necessary to support the special-status plants do not exist on site;
- Edaphic (soil) conditions (e.g. rocky or clay soils) necessary to support the special-status plants do not exist on site;
- Topographic conditions (e.g. slopes) necessary to support the special-status plants do not exist on site;
- Unique pH conditions (e.g. serpentine) necessary to support the special-status plant species are not present on the Project Study Area;
- Associated vegetation communities (e.g. cismontane woodland, chaparral, broadleaved upland forest) necessary to support the special-status plants do not exist on site.

Protocol-level surveys for special status plants with potential to occur were performed on April 12 and May 24, 2022, which corresponded with the blooming period for all 9 species listed below with negative findings. All plants observed during the site visit are provided in Appendix C - Observed Species Table.

Adverse conditions from yearly weather patterns may prevent accurate identification of some special status plants in the project area. Disease, drought, predation, fire, herbivory, or other disturbances may also preclude presence in a given year. The timing of this survey was based on a determination of the blooming period for most special status plants in a normal (or average) rainfall year. No evidence of disease, drought, predation or herbivory was observed. The Project Study Area is located outside the footprint of recent fires in Mendocino County.

Table 1. Special Status Plants with Potential to Occur in the Study Area

Scientific name/ Common name	Status	Habitat	Elevation (meters)	Flowering period	Potential for Occurrence
<i>Agrostis blasdalei</i> Blasdale's bent grass	1B.2	Dunes, gravelly soils, coastal bluffs, scrub	< 100	May-Jul	Moderate potential. There are occurrences nearby, but this species is typically found in coastal dunes and rocky soils along coastal bluffs.
<i>Calystegia purpurata ssp. saxicola</i> Coastal bluff morning glory	1B.2	Rocky coastal scrub	<100	May-Jun	Low potential. There are occurrences nearby, but the project area lacks the habitat that this taxon is typically associated with.
<i>Castilleja mendocinensis</i> Mendocino paintbrush	1B.2	Coastal scrub	< 100	May-Aug	Moderate potential. Mendocino paintbrush occurs in close proximity to the project area, but is typically found in scrub and coastal bluffs, rarely grassland or coastal prairie.
<i>Erigeron supplex</i> Supple daisy	1B.2	Coastal areas, bluffs	< 50	May-Aug	Moderate potential. There are occurrences nearby, and the species is occasionally found in coastal prairie habitat, although it is more often found on coastal bluffs.
<i>Gilia capitata ssp. pacifica</i> Pacific gilia	1B.2	Coastal bluffs, grassland, dunes, steep slopes, ravines, open flats	< 400	May-Aug	Moderate potential. There are occurrences nearby, and the project area contains habitat that is potentially suitable.

Scientific name/ Common name	Status	Habitat	Elevation (meters)	Flowering period	Potential for Occurrence
<i>Hesperevax sparsiflora</i> var. <i>brevifolia</i> Short-leaved evax	1B.2	Sandy, grassy or wooded coastal bluffs, terraces, dunes	< 300	Mar-Jul	Moderate potential. There are occurrences nearby, and the project area contains habitat that is potentially suitable.
<i>Lasthenia californica</i> ssp. <i>bakeri</i> Baker's goldfields	1B.2	Grassland, woodland	< 500	May-Jun	Moderate potential. There are occurrences nearby, and the project area contains habitat that is potentially suitable.
<i>Lasthenia californica</i> ssp. <i>macrantha</i> Perennial goldfields	1B.2	Grassland, dunes along immediate coast	< 500	May-Aug	Moderate potential. There are occurrences nearby, and the project area contains habitat that is potentially suitable.
<i>Sidalcea malviflora</i> ssp. <i>purpurea</i> Purple-stemmed checkerbloom	1B.2	Meadows, open coastal forest, prairie	0-30	May-Jun	Moderate potential. There are occurrences nearby, and the project area contains habitat that is potentially suitable.

3.4 Special Status Wildlife

In addition to wildlife listed as federal or state endangered and/or threatened, federal and state candidate species, CDFW Species of Special Concern, CDFW California Fully Protected species, USFWS Birds of Conservation Concern, and CDFW Special-status Invertebrates are all considered special-status species. The federal Bald and Golden Eagle Protection Act also provides broad protections to both eagle species that are roughly analogous to those of listed species. In addition to regulations for special-status species, most native birds in the United States (including non-status species) are protected by the federal Migratory Bird Treaty Act of 1918 (MBTA) and the California Fish and Game Code (CFGF), i.e., sections 3503, 3503.5 and 3513. Under these laws, deliberately destroying active bird nests, eggs, and/or young is illegal.

Twenty-four (24) special-status wildlife species have been documented within 9-quadrangle search of the Project Study Area, of which 14 species have been documented within a five-mile radius (Appendix A, Figure 3). Based on the presence of biological communities described above, the Project Study Area has the potential to support only two of these species described in Table 2 below. Several species of bumble bee may also be potentially present on the site and are reported in the CNDDDB search. These species were formally candidates for listing but have since been downgraded and are not considered special status.

Note, a focused assessment and survey for Point Arena Mountain Beaver was performed by a qualified biologist with negative findings. The methods and results of the survey were transmitted to USFWS. On March 1, 2022, the USFWS emailed Sol Ecology to confirm that the site does not provide suitable habitat for this species (Gregory Schmidt, pers. comm., 2022).

The remaining species found in the review of background literature were determined to be unlikely to occur due to absence of suitable habitat elements in and immediately adjacent to the Project Study Area. Habitat elements that were evaluated but found to be absent from the immediate area of the Project Study Area or surrounding habitats subject to potential indirect impacts include the following:

- No suitable burrows on or adjacent to the Project Study Area (e.g. for Point Arena mountain beaver);
- No suitable aquatic habitat on or immediately adjacent to the property (e.g. for California red-legged frog, foothill yellow-legged frog, southern torrent salamander, western pond turtle, steelhead, tidewater goby, etc.);
- No suitable roosting habitat such as barns, old buildings, or large snags (e.g. for pallid bat);
- Suitable habitat or vegetation communities (e.g. Sonoma tree vole).

Table 2. Special Status Wildlife with Potential to Occur in the Study Area

Scientific Name/ Common Name	Status ¹	Habitat	Potential for Occurrence
Amphibians and Reptiles			
Lotis blue butterfly <i>Lycaeides argyrognomon lotis</i>	FE, SSI	Inhabits wet meadows or poorly-drained sphagnum-willow bogs, where soils are waterlogged and acidic; northern coastal California. Inhabits upper edges of peat bog between peat and surrounding low willows; hostplant is <i>Lotus formosissimus</i> and <i>Hosackia gracilis</i> .	High Potential. The host plant <i>Hosackia gracilis</i> is present in the Study Area. This species has not been observed since 1983 and there are no occurrences within five miles. Nonetheless, the host plant is considered an ESHA. Suitable wet meadow habitat is present approximately 1,000 feet to the east along the Garcia River.
Behren's silverspot butterfly <i>Speyeria zerene behrensii</i>	FE, SSI	Restricted to the Pacific side of the coast ranges, from Point Arena to Cape Mendocino, Mendocino County. Inhabits coastal terrace prairie habitat. Foodplants are <i>Viola</i> species.	Presumed Present. This species host plant is present in the Study Area. There are multiple occurrences within one mile of the site (Schmidt pers. comm).

¹ FE/SE – Federal/State Endangered
 SCE/T – State Candidate Endangered/Threatened
 SSC – Species of Special Concern
 SSI – Special Status Invertebrate

FT/ST – Federal/State Threatened
 CFP – California Fully Protected
 BCC – Bird of Conservation Concern
 SLC – Species of Local Concern

4.0 DISCUSSION AND RECOMMENDATIONS

On December 4, 2021, April 12, and on May 24, 2022, Sol Ecology, Inc. (Sol Ecology) performed a biological resources assessment with protocol-level plant surveys at the NCCVM Project Study Area to evaluate the potential for biological resource impacts from development of the proposed Project, under the guidelines of the Mendocino County Local Coastal Plan.

The approximately 0.21-acre Project Study Area and surrounding habitats are comprised of coastal prairie vegetation community, which is considered a sensitive community under the local coastal plan when occupied by a rare, threatened, or endangered plant or animal. Protocol-level floristic surveys have been performed with negative findings in the proposed project area; occupied coastal prairie habitat has been identified immediately adjacent to the site. **Occupied coastal prairie habitat will be avoided the project and as such, no impact to ESHA is anticipated.** A total of 0.06 acre of unoccupied coastal prairie habitat would be removed to allow for the project to be constructed. No other sensitive communities subject to state or federal jurisdiction are present on or adjacent to the site.

4.1.2. Special-Status Plant Species

Nine (9) special status plants may occur within the Project Study Area. None of these species were observed during protocol-level plant surveys which coincided with the blooming window for all 9 plant species. Because none were observed, and the site is relatively undisturbed, impacts are not likely to occur as a result of the proposed project and a second year of surveys are not warranted.

One List 4 species, *Hosackia gracilis* was observed in the Project Study Area. This species is the host plant for the federal endangered Lotis blue butterfly. The project will avoid all but approximately 5 individual plants which may be temporarily impacted during construction of the monument (Appendix A, Figure 4). **Given that USFWS has provided concurrence that removal of these 5 plants will not negatively impact Lotis blue butterfly, we conclude that the resource will not be significantly degraded by the proposed project and as such, further review is not warranted.**

The remaining plants shall be avoided during construction using temporary construction fencing as described in Section 1.2. Permanent fencing (split rail or rope fence) and/or signage, will be **placed by Lighthouse staff** adjacent to the monument to deter foot traffic that may result in trampling of the flowers surrounding the site.

4.1.3. Special-Status Wildlife Species

Two (2) special status wildlife species may occur within the Study Area – both federally listed butterflies: Behren’s silverspot butterfly and the Lotis blue butterfly. Both the host plant and nectar sources were identified on-site for both species. Sol Ecology contacted USFWS staff

Gregory Schmidt on March 1, and July 18, 2022 for technical assistance to confirm the survey methods and prescribed measures to ensure incidental take of either species would be avoidable.

Based on guidance from USFWS, protocol-level surveys were performed during the blooming window for the 2 host plant species: *Viola adunca* and *Hosackia gracillis*. Individual plants were identified by a qualified botanist and mapped. The extent of habitat for each species is shown in Appendix A, Figure 4; where the two plant distributions overlaps, mapping of the violet prevailed. Based on discussions with USFWS, it is presumed that given the presence of the host plant for Behren's silverspot and known occurrences in the area, this species is presumed present in the Study Area and may be present year-round. Lotis blue butterfly on the over hand has not been documented in this area since 1983. Therefore, even though the host plant is present and a few plants will be removed, USFWS provided a "no take" conclusion based on absence of this species in the area for the last 30 years (Schmidt, Gregory pers. comm. 2022).

Habitat occupied by *Viola adunca* is considered ESHA under the MCC coastal plan element and would require a minimum buffer of 100 feet per Sec. 20.496.020 of the Mendocino County Code, unless through consultation with CDFW and County Planning staff we can demonstrate that 100 feet is not necessary to protect the resource. Given that the Applicant has consulted with the USFWS resulting in a conclusion that the project would not result in incidental take nor adverse effects to listed Callippe silverspot butterfly or its' habitat, we feel that the 100-foot buffer is not warranted, and no further measures are necessary to ensure the project does not degrade resources present on or adjacent to the site.

5.0 REFERENCES

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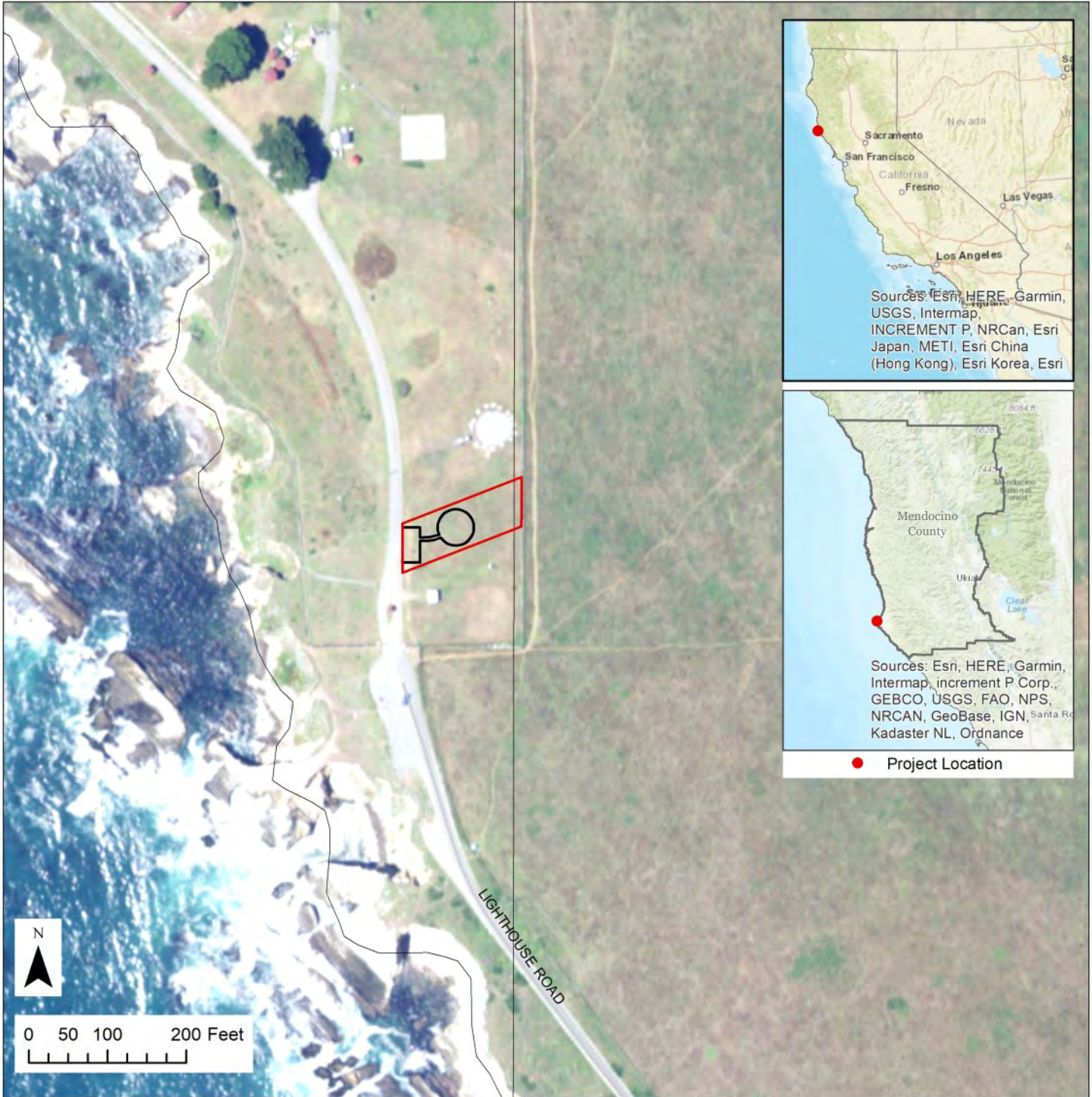
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APPENDIX A

PROJECT FIGURES: SITE LOCATION MAP, CNDDDB DATABASE RESULTS, SENSITIVE HABITATS MAP

Figure 1. Project Location

Northern CA Coastal Veterans Monument Project, Point Arena, CA



- Project Study Area
- Project Footprint (0.064 ac)
- Parcel Boundary
- Streets

Figure 2: Special Status Plant Species within 5 Miles of the Project Site
 Northern CA Coastal Veterans Monument Project, Point Arena, CA



Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

- Project Location
- ⌚ 5-Mile Buffer
- American manna grass (1)
- Baker's goldfields (3)
- Blasdale's bent grass (2)
- Contra Costa goldfields (1)
- Humboldt Bay owl's-clover (1)
- Lyngbye's sedge (1)
- Mendocino Coast paintbrush (3)
- Mendocino dodder (1)
- Nuttall's ribbon-leaved pondweed (1)
- Pacific gilia (1)
- Roderick's fritillary (1)
- coast lily (7)
- coastal bluff morning-glory (3)
- maple-leaved checkerbloom (4)
- marsh microseris (1)
- perennial goldfields (3)
- pink sand-verbena (2)
- purple-stemmed checkerbloom (1)
- pygmy cypress (1)
- short-leaved evax (5)
- supple daisy (2)
- swamp harebell (10)
- twisted horsehair lichen (1)

Figure 3: Special Status Animal Species within 5 Miles of the Project Site
 Northern CA Coastal Veterans Monument Project, Point Arena, CA



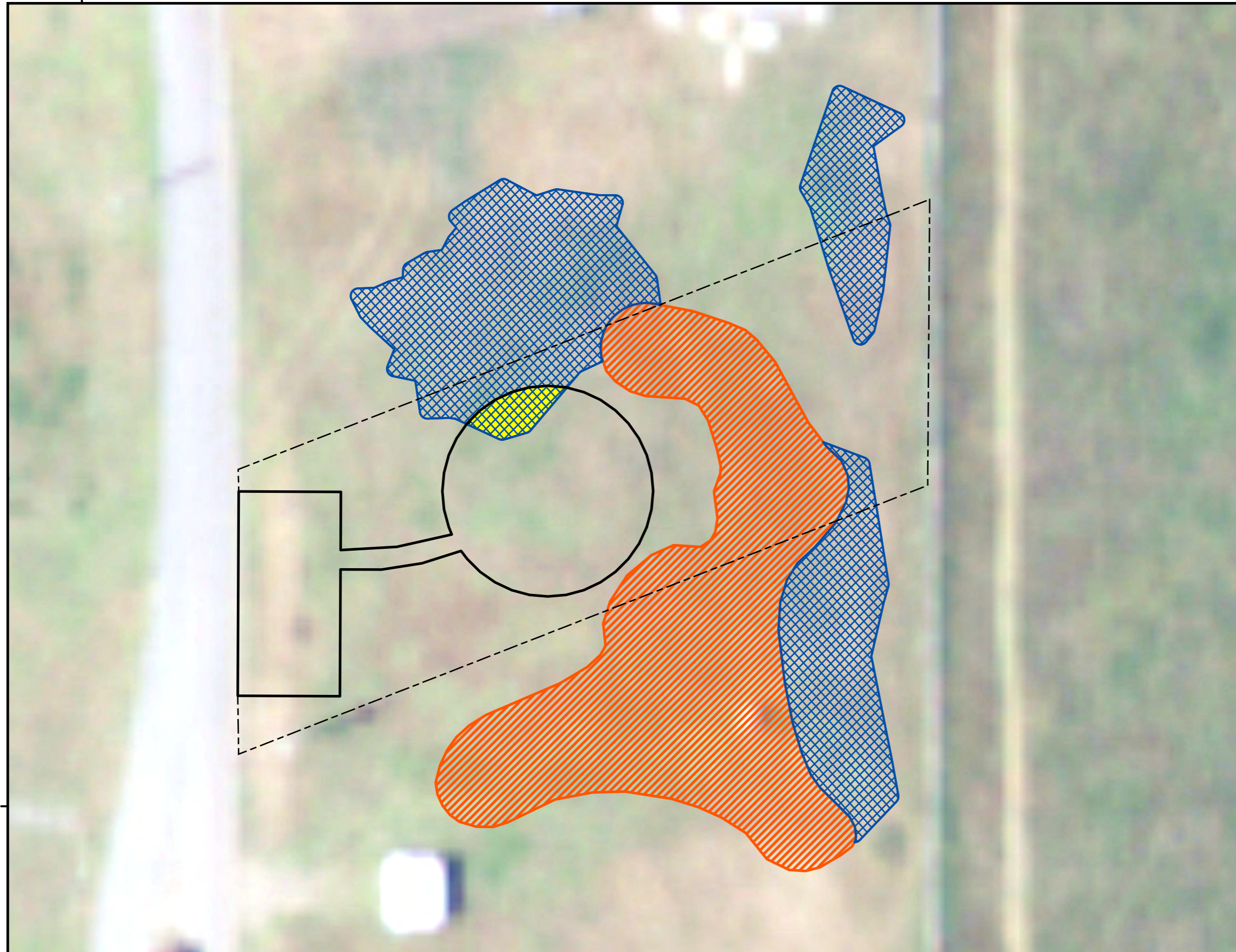
Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

- Project Location
- ⬇️ 5-Mile Buffer
- Behren's silverspot butterfly (6)
- California red-legged frog (5)
- Point Arena mountain beaver (22)
- Sonoma tree vole (4)
- Steller sea lion (1)
- foothill yellow-legged frog (2)
- lotis blue butterfly (1)
- obscure bumble bee (1)
- pink salmon (1)
- southern torrent salamander (1)
- steelhead - northern California DPS (1)
- tidewater goby (1)
- western bumble bee (1)
- western pond turtle (1)

Figure 4. Sensitive Habitats Map



123°44'15"W

38°57'5"N






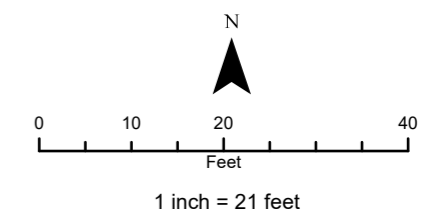
Northern CA Coastal
Veterans Monument Project
Point Arena, CA

Sensitive Habitat

-  Lotus blue butterfly habitat
-  Behren's butterfly habitat

Other Features

-  Site plan (0.064 ac)
-  Easement
-  Impacted Lotus blue butterfly habitat (0.0032 ac)



Coordinate System: NAD 1983 UTM Zone 10N
Projection: Universal Transverse Mercator
Datum: North American 1983
Base: NAIP 2020

Date: 7-1-2022
Data: Sol Ecology Inc., Mendocino Co.
GIS: AG2171



APPENDIX B

SITE PHOTOGRAPHS



Overview of the NCCVM site, facing north shows the site is dominated by coastal prairie.



A patch of *Viola adunca* in the study area.



Close-up of *V. adunca*, host plant for Behren's butterfly.



Close-up of *Hosackia gracilis* in the study area, host plant for Lotis blue butterfly.



An individual *H. gracilis* on the site (bottom of the frame).

APPENDIX C

OBSERVED SPECIES TABLE

Survey Dates: April 12 and May 24, 2022

Vascular Plant Species List

*= non-native

++ = special status

Apiaceae

Eryngium armatum Coastal button celery

Asteraceae

Achillea millefolium Yarrow
**Arctotheca prostrata* Prostrate cape weed
Erigeron glaucus Seaside daisy
Gamochaeta ustulata Featherweed
Gnaphalium palustre Western marsh cudweed
Grindelia stricta Oregon gum plant
Heterotheca sessiliflora ssp. *bolanderi* Bolander's goldenaster
**Hypochaeris radicata* Common cat's ear
**Sonchus oleraceus* Common sow-thistle
Wyethia angustifolia Narrowleaf mule-ears

Boraginaceae

Nemophila menziesii Menzies' baby blue eyes

Caryophyllaceae

**Cerastium glomeratum* Sticky mouse-ear chickweed
Cerastium viride Western field mouse-ear chickweed
**Stellaria neglecta* Common chickweed

Convolvulaceae

Calystegia purpurata Smooth western morning glory

Fabaceae

++*Hosackia gracilis* (CRPR 4.2) Harlequin lotus
Lupinus variicolor Varied lupine
**Medicago polymorpha* Bur clover
**Trifolium subterraneum* Subterranean clover
Trifolium wormskioldii Springbank clover

<i>*Vicia sativa</i>	Spring vetch
Geraniaceae	
<i>*Geranium dissectum</i>	Wild geranium
Iridaceae	
<i>Iris douglasiana</i>	Douglas iris
<i>Sisyrinchium bellum</i>	Blue-eyed grass
Juncaceae	
<i>Juncus bufonius</i>	Toad rush
<i>Juncus sp.</i>	Rush
Lamiaceae	
<i>Stachys bullata</i>	California hedge nettle
Montiaceae	
<i>Calandrinia menziesii</i>	Redmaids
Myrsinaceae	
<i>*Lysimachia arvensis</i>	Scarlet pimpernel
Onagraceae	
<i>Taraxia ovata</i>	Sun cup
Papaveraceae	
<i>Eschscholzia californica</i>	California poppy
Plantaginaceae	
<i>*Plantago coronopus</i>	Cut leaf plantain
<i>*Plantago lanceolata</i>	Ribwort
<i>*Plantago major</i>	Common plantain
Plumbaginaceae	
<i>Armeria maritima</i>	Thrift seapink
Poaceae	
<i>*Briza maxima</i>	Rattlesnake grass
<i>*Bromus diandrus</i>	Great brome
<i>*Bromus hordaceus</i>	Soft brome
<i>Bromus maritimus</i>	Seaside brome
<i>*Cynosurus echinatus</i>	Bristly dogtail grass
<i>Hordeum brachyantherum</i>	Meadow barley

**Hordeum murinum*

Wall barley

**Poa annua*

Annual blue grass

**Polypogon monspeliensis*

Rabbitfoot grass

Polygonaceae

**Rumex acetosella*

Sheep's sorrel

Ranunculaceae

Ranunculus californicus

California buttercup

Rosaceae

Fragaria chiloensis

Beach strawberry

Rubus ursinus

California blackberry

Violaceae

Viola adunca

APPENDIX D

CNDDDB RESULTS AND USFWS IPAC WITHIN 5 QUAD SEARCH OF THE PROJECT STUDY AREA



Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad IS (Point Arena (3812386) OR Mallo Pass Creek (3912316) OR Cold Spring (3912315) OR Eureka Hill (3812385) OR Gualala (3812375) OR Saunders Reef (3812376))
 AND Taxonomic Group IS (Dune OR Scrub OR Herbaceous OR Marsh OR Riparian OR Woodland OR Forest OR Alpine OR Inland Waters OR Marine OR Estuarine OR Riverine OR Palustrine OR Ferns OR Gymnosperms OR Monocots OR Dicots OR Lichens OR Bryophytes OR Fungi)

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Abronia umbellata</i> var. <i>breviflora</i> pink sand-verbena	G4G5T2 S2	None None	Rare Plant Rank - 1B.1 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	10 30	61 S:2	0	1	0	0	0	1	2	0	2	0	0
<i>Agrostis blasdalei</i> Blasdale's bent grass	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_UCSC-UC Santa Cruz	60 80	62 S:6	0	1	0	0	0	5	1	5	6	0	0
<i>Astragalus agnicidus</i> Humboldt County milk-vetch	G2 S2	None Endangered	Rare Plant Rank - 1B.1 SB_BerrySB-Berry Seed Bank SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	1,015 1,680	64 S:5	0	2	2	1	0	0	1	4	5	0	0
<i>Calystegia purpurata</i> ssp. <i>saxicola</i> coastal bluff morning-glory	G4T2T3 S2S3	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive	41 150	42 S:8	2	1	2	0	0	3	1	7	8	0	0
<i>Campanula californica</i> swamp harebell	G3 S3	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive	30 1,700	155 S:41	1	21	9	2	0	8	14	27	41	0	0
<i>Carex californica</i> California sedge	G5 S2	None None	Rare Plant Rank - 2B.2	475 1,680	41 S:10	0	4	1	0	0	5	2	8	10	0	0
<i>Carex lyngbyei</i> Lyngbye's sedge	G5 S3	None None	Rare Plant Rank - 2B.2 IUCN_LC-Least Concern	12 12	37 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Carex saliniformis</i> deceiving sedge	G2 S2	None None	Rare Plant Rank - 1B.2	60 750	18 S:5	1	0	0	0	0	4	3	2	5	0	0
<i>Castilleja ambigua</i> var. <i>humboldtiensis</i> Humboldt Bay owl's-clover	G4T2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive	2 2	31 S:1	1	0	0	0	0	0	1	0	1	0	0



Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database



Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Castilleja mendocinensis</i> Mendocino Coast paintbrush	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive	50 220	52 S:9	0	3	0	2	0	4	2	7	9	0	0
<i>Coastal and Valley Freshwater Marsh</i> Coastal and Valley Freshwater Marsh	G3 S2.1	None None			60 S:3	0	0	0	0	0	3	3	0	3	0	0
<i>Coastal Brackish Marsh</i> Coastal Brackish Marsh	G2 S2.1	None None			30 S:2	0	0	0	0	0	2	2	0	2	0	0
<i>Coastal Terrace Prairie</i> Coastal Terrace Prairie	G2 S2.1	None None		280 280	8 S:1	0	1	0	0	0	0	1	0	1	0	0
<i>Coptis laciniata</i> Oregon goldthread	G4? S3?	None None	Rare Plant Rank - 4.2	180 410	122 S:2	0	1	0	0	0	1	0	2	2	0	0
<i>Cuscuta pacifica var. papillata</i> Mendocino dodder	G5T1 S1	None None	Rare Plant Rank - 1B.2		5 S:2	0	0	0	0	0	2	1	1	2	0	0
<i>Erigeron supplex</i> supple daisy	G2 S2	None None	Rare Plant Rank - 1B.2 SB_UCBG-UC Botanical Garden at Berkeley	20 600	21 S:9	1	2	2	1	0	3	3	6	9	0	0
<i>Erysimum concinnum</i> bluff wallflower	G3 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive	150 150	30 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Erythronium revolutum</i> coast fawn lily	G4G5 S3	None None	Rare Plant Rank - 2B.2	1,890 2,000	172 S:2	0	0	2	0	0	0	0	2	2	0	0
<i>Fritillaria roderickii</i> Roderick's fritillary	G1Q S1	None Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden	80 150	8 S:5	0	0	0	1	1	3	4	1	4	1	0
<i>Gilia capitata ssp. pacifica</i> Pacific gilia	G5T3 S2	None None	Rare Plant Rank - 1B.2	24 100	91 S:3	0	1	0	0	0	2	1	2	3	0	0
<i>Glyceria grandis</i> American manna grass	G5 S3	None None	Rare Plant Rank - 2B.3	200 200	10 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Grand Fir Forest</i> Grand Fir Forest	G1 S1.1	None None		200 700	9 S:2	0	1	1	0	0	0	2	0	2	0	0
<i>Hesperevax sparsiflora var. brevifolia</i> short-leaved evax	G4T3 S3	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive	45 160	72 S:9	0	3	1	0	0	5	1	8	9	0	0



Summary Table Report

California Department of Fish and Wildlife California Natural Diversity Database



Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Hesperocyparis pygmaea</i> pygmy cypress	G1 S1	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	30 1,300	37 S:10	0	2	0	1	0	7	3	7	10	0	0
<i>Horkelia marinensis</i> Point Reyes horkelia	G2 S2	None None	Rare Plant Rank - 1B.2	1,275 1,275	36 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Horkelia tenuiloba</i> thin-lobed horkelia	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	150 1,300	27 S:10	0	2	4	0	0	4	7	3	10	0	0
<i>Hypogymnia schizidiata</i> island tube lichen	G2G3 S2	None None	Rare Plant Rank - 1B.3	1,135 1,135	10 S:1	0	0	1	0	0	0	0	1	1	0	0
<i>Kopsiopsis hookeri</i> small groundcone	G4? S1S2	None None	Rare Plant Rank - 2B.3	1,995 1,995	21 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Lasthenia californica ssp. bakeri</i> Baker's goldfields	G3T1 S1	None None	Rare Plant Rank - 1B.2	20 150	19 S:5	0	0	0	0	1	4	4	1	4	1	0
<i>Lasthenia californica ssp. macrantha</i> perennial goldfields	G3T2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive	20 100	59 S:6	0	0	0	0	0	6	6	0	6	0	0
<i>Lasthenia conjugens</i> Contra Costa goldfields	G1 S1	Endangered None	Rare Plant Rank - 1B.1 SB_UCBG-UC Botanical Garden at Berkeley	100 100	36 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Lathyrus palustris</i> marsh pea	G5 S2	None None	Rare Plant Rank - 2B.2	450 450	13 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Lilium maritimum</i> coast lily	G2 S2	None None	Rare Plant Rank - 1B.1 BLM_S-Sensitive SB_BerrySB-Berry Seed Bank SB_UCBG-UC Botanical Garden at Berkeley	25 1,600	84 S:37	0	12	16	1	0	8	19	18	37	0	0



Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database



Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Microseris paludosa</i> marsh microseris	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_SBBG-Santa Barbara Botanic Garden SB_UCSC-UC Santa Cruz		38 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Northern Coastal Bluff Scrub</i> Northern Coastal Bluff Scrub	G2 S2.2	None None		50 50	1 S:1	1	0	0	0	0	0	1	0	1	0	0
<i>Northern Coastal Salt Marsh</i> Northern Coastal Salt Marsh	G3 S3.2	None None			53 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Oenothera wolfii</i> Wolf's evening-primrose	G2 S1	None None	Rare Plant Rank - 1B.1 SB_BerrySB-Berry Seed Bank	100 100	29 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Piperia candida</i> white-flowered rein orchid	G3 S3	None None	Rare Plant Rank - 1B.2	349 1,720	222 S:5	0	1	4	0	0	0	0	5	5	0	0
<i>Potamogeton epihydrus</i> Nuttall's ribbon-leaved pondweed	G5 S2S3	None None	Rare Plant Rank - 2B.2 IUCN_LC-Least Concern		25 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Sidalcea calycosa ssp. rhizomata</i> Point Reyes checkerbloom	G5T2 S2	None None	Rare Plant Rank - 1B.2	100 100	34 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Sidalcea malachroides</i> maple-leaved checkerbloom	G3 S3	None None	Rare Plant Rank - 4.2	20 600	136 S:9	0	0	5	0	1	3	9	0	8	1	0
<i>Sidalcea malviflora ssp. purpurea</i> purple-stemmed checkerbloom	G5T1 S1	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive	57 280	19 S:6	1	2	0	0	0	3	3	3	6	0	0
<i>Streptanthus glandulosus ssp. hoffmanii</i> Hoffman's bristly jewelflower	G4T2 S2	None None	Rare Plant Rank - 1B.3 SB_UCSC-UC Santa Cruz	1,685 1,783	16 S:2	0	1	1	0	0	0	0	2	2	0	0
<i>Sulcaria spiralifera</i> twisted horsehair lichen	G3G4 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive	20 20	18 S:1	0	0	0	0	0	1	1	0	1	0	0



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Name (Scientific/Common)	CNDDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Trifolium buckwestiorum</i> Santa Cruz clover	G2 S2	None None	Rare Plant Rank - 1B.1 BLM_S-Sensitive SB_SBBG-Santa Barbara Botanic Garden SB_UCSC-UC Santa Cruz SB_USDA-US Dept of Agriculture	330 1,680	64 S:9	0	4	1	0	0	4	4	5	9	0	0
<i>Trifolium trichocalyx</i> Monterey clover	G1 S1	Endangered Endangered	Rare Plant Rank - 1B.1 SB_USDA-US Dept of Agriculture	346 700	6 S:3	0	3	0	0	0	0	0	3	3	0	0
<i>Usnea longissima</i> Methuselah's beard lichen	G4 S4	None None	Rare Plant Rank - 4.2 BLM_S-Sensitive	820 820	206 S:1	0	0	1	0	0	0	1	0	1	0	0



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Query Criteria: Quad IS (Point Arena (3812386) OR Mallo Pass Creek (3912316) OR Cold Spring (3912315) OR Eureka Hill (3812385) OR Gualala (3812375) OR Saunders Reef (3812376))
 AND Taxonomic Group IS (Fish OR Amphibians OR Reptiles OR Birds OR Mammals OR Mollusks OR Arachnids OR Crustaceans OR Insects)

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Aplodontia rufa nigra</i> Point Arena mountain beaver	G5T1 S1	Endangered None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	40 1,100	39 S:39	1	9	1	0	0	28	14	25	39	0	0
<i>Arborimus pomo</i> Sonoma tree vole	G3 S3	None None	CDFW_SSC-Species of Special Concern IUCN_NT-Near Threatened	40 2,240	222 S:21	1	1	0	0	0	19	21	0	21	0	0
<i>Ascaphus truei</i> Pacific tailed frog	G4 S3S4	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	150 1,000	491 S:32	0	2	1	0	0	29	0	32	32	0	0
<i>Bombus caliginosus</i> obscure bumble bee	G2G3 S1S2	None None	IUCN_VU-Vulnerable	100 1,400	181 S:3	0	0	0	0	0	3	3	0	3	0	0
<i>Bombus occidentalis</i> western bumble bee	G2G3 S1	None None	USFS_S-Sensitive	100 100	306 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Brachyramphus marmoratus</i> marbled murrelet	G3 S2	Threatened Endangered	CDF_S-Sensitive IUCN_EN-Endangered NABCI_RWL-Red Watch List	400 400	110 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Cerorhinca monocerata</i> rhinoceros auklet	G5 S3	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	20 20	10 S:2	0	0	0	0	0	2	2	0	2	0	0
<i>Corynorhinus townsendii</i> Townsend's big-eared bat	G4 S2	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive WBWG_H-High Priority	480 480	635 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Danaus plexippus pop. 1</i> monarch - California overwintering population	G4T2T3 S2S3	Candidate None	USFS_S-Sensitive	120 230	383 S:3	0	0	0	0	0	3	3	0	3	0	0



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Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Dicamptodon ensatus</i> California giant salamander	G2G3 S2S3	None None	CDFW_SSC-Species of Special Concern IUCN_NT-Near Threatened	200 1,650	234 S:12	0	0	0	0	0	12	12	0	12	0	0
<i>Emys marmorata</i> western pond turtle	G3G4 S3	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable USFS_S-Sensitive	11 11	1404 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Erethizon dorsatum</i> North American porcupine	G5 S3	None None	IUCN_LC-Least Concern	889 889	523 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Eucyclogobius newberryi</i> tidewater goby	G3 S3	Endangered None	AFS_EN-Endangered IUCN_VU-Vulnerable	5 5	127 S:1	1	0	0	0	0	0	1	0	1	0	0
<i>Eumetopias jubatus</i> Steller sea lion	G3 S2	Delisted None	IUCN_EN-Endangered MMC_SSC-Species of Special Concern	15 15	38 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Fratercula cirrhata</i> tufted puffin	G5 S1S2	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern		17 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Helminthoglypta arrosa pomoensis</i> Pomo bronze shoulderband	G2G3T1 S1	None None	IUCN_DD-Data Deficient	2,000 2,000	3 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Hesperoleucus parvipinnis</i> Gualala roach	G3 S3	None None	CDFW_SSC-Species of Special Concern	1 1	4 S:1	1	0	0	0	0	0	1	0	1	0	0
<i>Oncorhynchus gorbuscha</i> pink salmon	G5 S1	None None		40 40	1 S:1	0	0	1	0	0	0	0	1	1	0	0
<i>Oncorhynchus kisutch pop. 4</i> coho salmon - central California coast ESU	G5T2Q S2	Endangered Endangered	AFS_EN-Endangered	250 580	23 S:2	0	0	0	0	0	2	2	0	2	0	0
<i>Oncorhynchus mykiss irideus pop. 16</i> steelhead - northern California DPS	G5T2T3Q S2S3	Threatened None	AFS_TH-Threatened	12 580	12 S:3	0	1	0	0	0	2	2	1	3	0	0
<i>Plebejus anna lotis</i> lotis blue butterfly	G4TH SH	Endangered None		250 250	2 S:1	0	0	0	0	1	0	1	0	0	1	0



Summary Table Report
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Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Rana aurora</i> northern red-legged frog	G4 S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	10 1,150	292 S:8	0	4	1	0	0	3	1	7	8	0	0
<i>Rana boylei</i> foothill yellow-legged frog	G3 S3	None Endangered	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_NT-Near Threatened USFS_S-Sensitive	10 947	2478 S:56	0	1	0	0	1	54	30	26	55	0	1
<i>Rana draytonii</i> California red-legged frog	G2G3 S2S3	Threatened None	CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable	20 825	1671 S:11	0	2	0	0	0	9	9	2	11	0	0
<i>Rhyacotriton variegatus</i> southern torrent salamander	G3G4 S2S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	200 550	416 S:6	0	1	0	0	0	5	2	4	6	0	0
<i>Speyeria zerene behrensii</i> Behren's silverspot butterfly	G5T1 S1	Endangered None		54 334	12 S:7	0	0	0	0	1	6	3	4	6	1	0
<i>Taricha rivularis</i> red-bellied newt	G2 S2	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	10 1,400	136 S:4	0	0	0	0	0	4	4	0	4	0	0

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Mendocino County, California



Local office

Arcata Fish And Wildlife Office

☎ (707) 822-7201

📅 (707) 822-8411

1655 Heindon Road
Arcata, CA 95521-4573

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

-
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Point Arena Mountain Beaver <i>Aplodontia rufa nigra</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/7727	Endangered

Birds

NAME	STATUS
Marbled Murrelet <i>Brachyramphus marmoratus</i> There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/4467	Threatened
Northern Spotted Owl <i>Strix occidentalis caurina</i> Wherever found There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/1123	Threatened
Western Snowy Plover <i>Charadrius nivosus nivosus</i> There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/8035	Threatened
Yellow-billed Cuckoo <i>Coccyzus americanus</i> There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/3911	Threatened

Reptiles

NAME	STATUS
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Green Sea Turtle *Chelonia mydas* **Threatened**
 No critical habitat has been designated for this species.
<https://ecos.fws.gov/ecp/species/6199>

Leatherback Sea Turtle *Dermochelys coriacea* **Endangered**
 Wherever found
 There is **final** critical habitat for this species. The location of the critical habitat is not available.
<https://ecos.fws.gov/ecp/species/1493>

Amphibians

NAME	STATUS
------	--------

<p>California Red-legged Frog <i>Rana draytonii</i> Wherever found There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/2891</p>	Threatened
--	-------------------

Fishes

NAME	STATUS
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<p>Tidewater Goby <i>Eucyclogobius newberryi</i> Wherever found There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/57</p>	Endangered
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Insects

NAME	STATUS
------	--------

<p>Behren's Silverspot Butterfly <i>Speyeria zerene behrensii</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/900</p>	Endangered
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<p>Lotis Blue Butterfly <i>Lycaeides argyrognomon lotis</i> Wherever found There is proposed critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/5174</p>	Endangered
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Crustaceans

NAME	STATUS
California Freshwater Shrimp <i>Syncaris pacifica</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/7903	Endangered
Conservancy Fairy Shrimp <i>Branchinecta conservatio</i> Wherever found There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/8246	Endangered

Flowering Plants

NAME	STATUS
Burke's Goldfields <i>Lasthenia burkei</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/4338	Endangered
Contra Costa Goldfields <i>Lasthenia conjugens</i> Wherever found There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/7058	Endangered
Showy Indian Clover <i>Trifolium amoenum</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6459	Endangered

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern \(BCC\)](#) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A
BREEDING SEASON IS
INDICATED FOR A BIRD ON
YOUR LIST, THE BIRD MAY

BREED IN YOUR PROJECT AREA
SOMETIME WITHIN THE
TIMEFRAME SPECIFIED, WHICH
IS A VERY LIBERAL ESTIMATE
OF THE DATES INSIDE WHICH
THE BIRD BREEDS ACROSS ITS
ENTIRE RANGE. "BREEDS
ELSEWHERE" INDICATES THAT
THE BIRD DOES NOT LIKELY
BREED IN YOUR PROJECT
AREA.)

Allen's Hummingbird *Selasphorus sasin*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9637>

Breeds Feb 1 to Jul 15

Bald Eagle *Haliaeetus leucocephalus*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/1626>

Breeds Jan 1 to Sep 30

Black Oystercatcher *Haematopus bachmani*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9591>

Breeds Apr 15 to Oct 31

Black Turnstone *Arenaria melanocephala*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds elsewhere

Clark's Grebe *Aechmophorus clarkii*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Jun 1 to Aug 31

Golden Eagle *Aquila chrysaetos*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/1680>

Breeds Jan 1 to Aug 31

Lesser Yellowlegs *Tringa flavipes*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9679>

Breeds elsewhere

Marbled Godwit *Limosa fedoa*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9481>

Breeds elsewhere

Olive-sided Flycatcher *Contopus cooperi*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/3914>

Breeds May 20 to Aug 31

Rufous Hummingbird *selasphorus rufus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/8002>

Breeds Apr 15 to Jul 15

Short-billed Dowitcher *Limnodromus griseus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9480>

Breeds Jun 1 to Aug 10

Willet *Tringa semipalmata*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds elsewhere

Wrentit *Chamaea fasciata*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Mar 15 to Aug 10

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

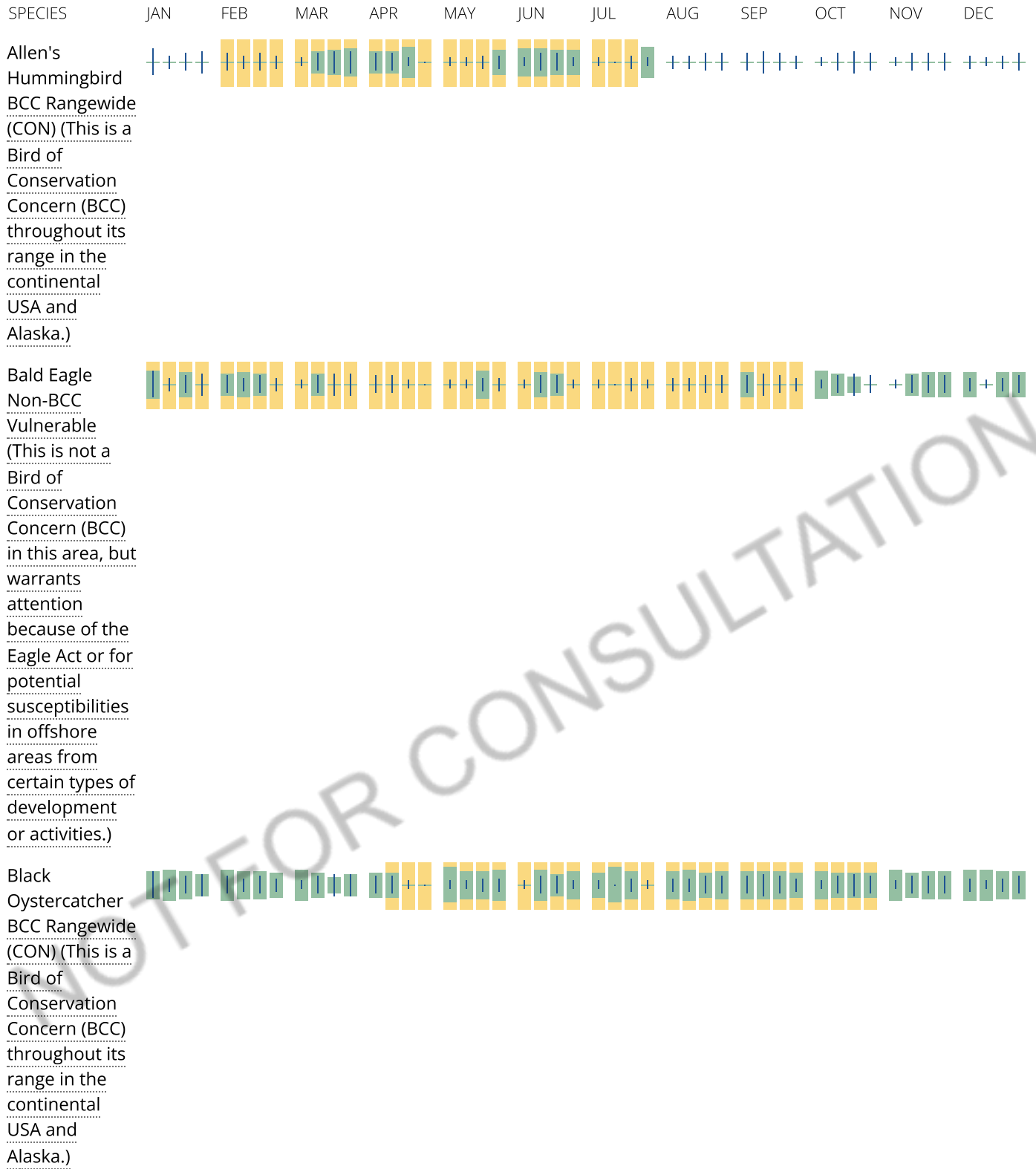
No Data (—)

A week is marked as having no data if there were no survey events for that week.

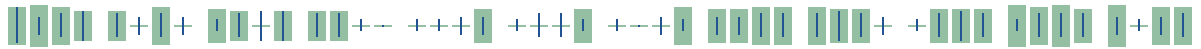
Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

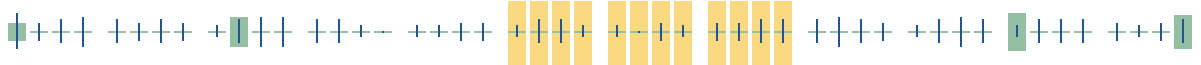
■ probability of presence ■ breeding season | survey effort — no data



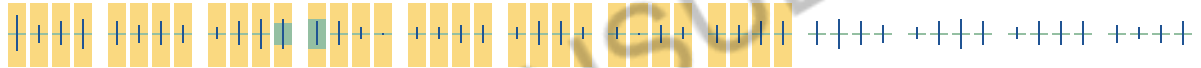
Black
Turnstone
BCC Rangewide
(CON) (This is a
Bird of
Conservation
Concern (BCC)
throughout its
range in the
continental
USA and
Alaska.)



Clark's Grebe
BCC Rangewide
(CON) (This is a
Bird of
Conservation
Concern (BCC)
throughout its
range in the
continental
USA and
Alaska.)



Golden Eagle
Non-BCC
Vulnerable
(This is not a
Bird of
Conservation
Concern (BCC)
in this area, but
warrants
attention
because of the
Eagle Act or for
potential
susceptibilities
in offshore
areas from
certain types of
development
or activities.)



Lesser
Yellowlegs
BCC Rangewide
(CON) (This is a
Bird of
Conservation
Concern (BCC)
throughout its
range in the
continental
USA and
Alaska.)



NOT FOR CONSULTATION

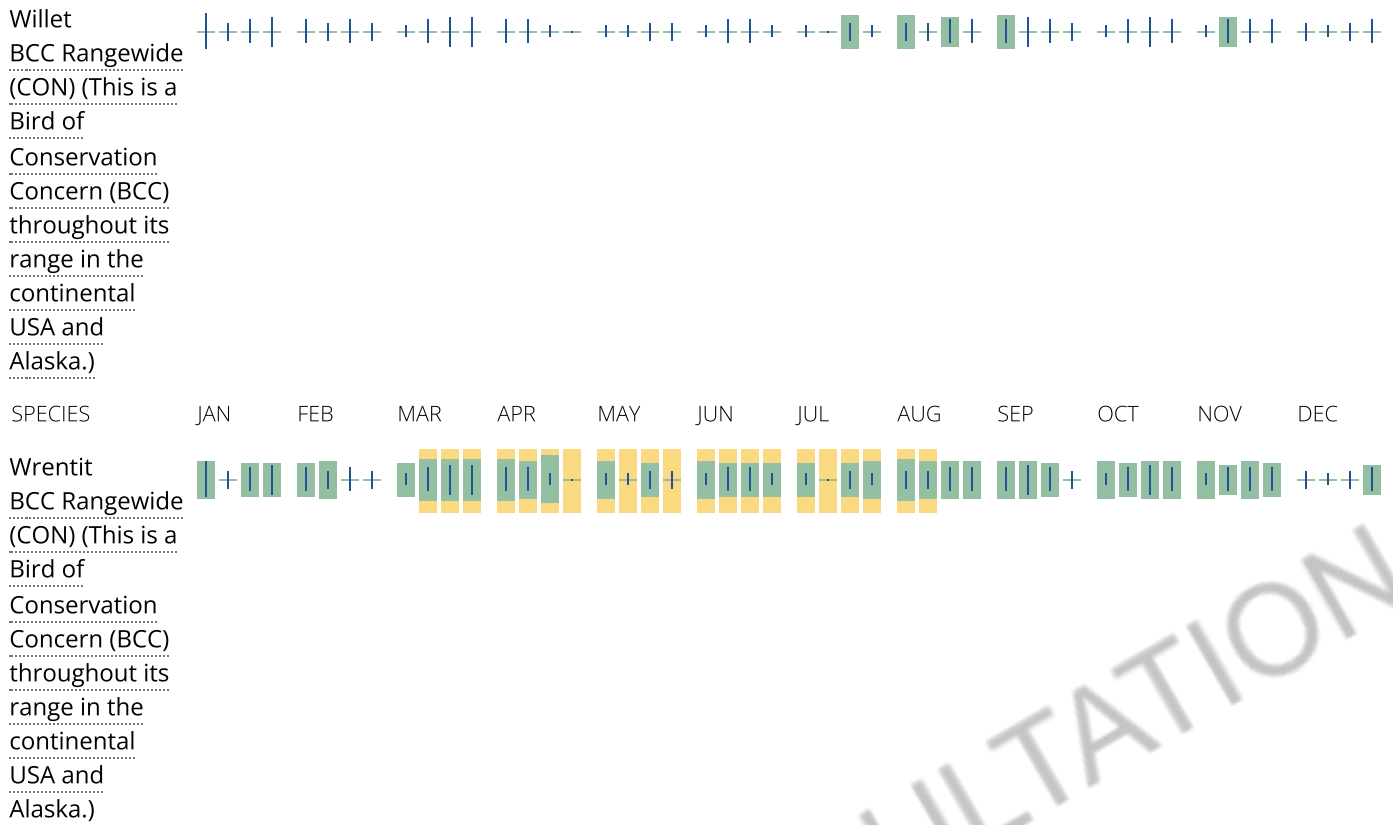
Marbled Godwit
 BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Olive-sided Flycatcher
 BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Rufous Hummingbird
 BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Short-billed Dowitcher
 BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Coastal Barrier Resources System

Projects within the [John H. Chafee Coastal Barrier Resources System](#) (CBRS) may be subject to the restrictions on federal expenditures and financial assistance and the consultation requirements of the Coastal Barrier Resources Act (CBRA) (16 U.S.C. 3501 et seq.). For more information, please contact the local [Ecological Services Field Office](#) or visit the [CBRA Consultations website](#). The CBRA website provides tools such as a flow chart to help determine whether consultation is required and a template to facilitate the consultation process.

THERE ARE NO KNOWN COASTAL BARRIERS AT THIS LOCATION.

Data limitations

The CBRS boundaries used in IPaC are representations of the controlling boundaries, which are depicted on the [official CBRS maps](#). The boundaries depicted in this layer are not to be considered authoritative for in/out determinations close to a CBRS boundary (i.e., within the "CBRS Buffer Zone" that appears as a hatched area on either side of the boundary). For projects that are very close to a CBRS boundary but do not clearly intersect a unit, you may contact the Service for an official determination by following the instructions here: <https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation>

Data exclusions

CBRS units extend seaward out to either the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS data, therefore projects in the offshore areas of units (e.g., dredging, breakwaters, offshore wind energy or oil and gas projects) may be subject to CBRA even if they do not intersect the CBRS data. For additional information, please contact CBRA@fws.gov.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

WETLAND INFORMATION IS NOT AVAILABLE AT THIS TIME

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.