

INTRODUCTION

Biological Resources Technical Memorandum, Volumes 4A-4E contain the supporting maps that are referenced in Volumes 1 and 3. These separately-bound volumes are organized into the five map sets described below:

VOLUME 4A

Map Title: Terrestrial Wildlife Habitat and Special-Status Wildlife Occurrences on Storage Reservoirs

- Sheet 1 Two Rock
- Sheet 2 Adobe Road
- Sheet 3 Tolay Extended and Lakeville Hillside
- Sheet 4 Tolay Confined
- Sheet 5 Sears Point
- Sheet 6 Bloomfield, Carroll Road, and Valley Ford
- Sheet 7 Huntley

VOLUME 4B

Map Title: Aquatic Habitat and Special-Status Aquatic Species Occurrences on Storage Reservoirs

- Sheet 1 Two Rock
- Sheet 2 Adobe Road
- Sheet 3 Tolay Extended and Lakeville Hillside
- Sheet 4 Tolay Confined
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VOLUME 4C

Map Title: Vegetation Communities and Special-Status Plant Occurrences on Storage Reservoirs

- Sheet 1 Two Rock
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VOLUME 4D

Map Title: Irrigation Area Vegetation Communities and Special-Status Species Occurrences

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- Sheet 3 Americano
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- Sheet 6 Miscellaneous/North Petaluma Valley
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- Sheet 8 Stemple
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- Sheet 11 Lakeville/Baylands
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VOLUME 4E

Map Title: Index to Biological, Aquatic, and Wetland Resources Along Pipelines and Pump Stations

**Biological Resources Volume 4A - Maps:
Terrestrial Wildlife Habitat and
Special-Status Wildlife Occurrences on
Storage Reservoirs**

**SANTA ROSA SUBREGIONAL
LONG-TERM WASTEWATER PROJECT**

Prepared for

**City of Santa Rosa
and
U.S. Army Corps of Engineers**

July 16, 1996

Prepared by

HARLAND BARTHOLOMEW & ASSOCIATES, INC.
2233 Watt Avenue, Suite 330, Sacramento, CA 95825 • 916/483-0481

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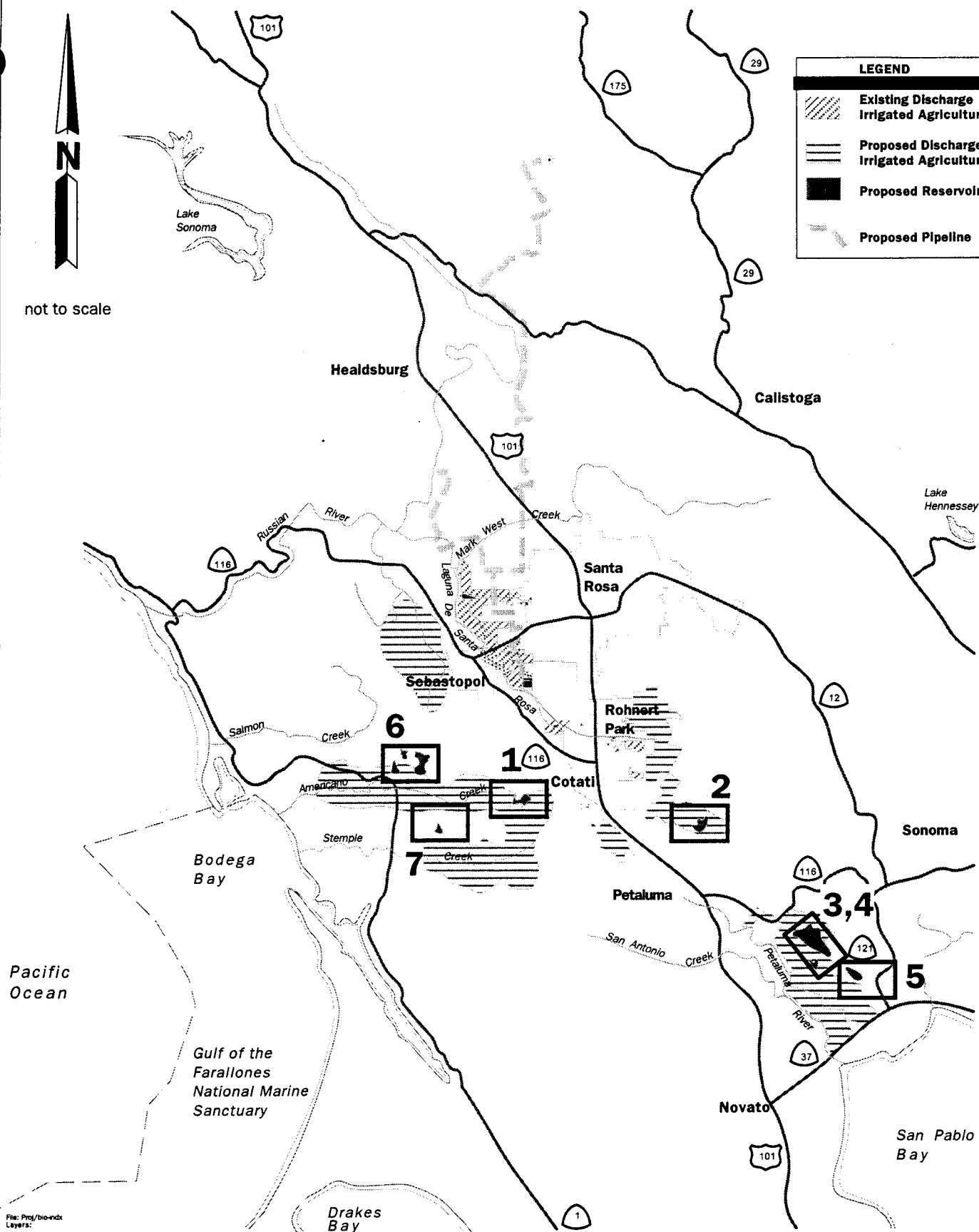
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not to scale

LEGEND	
	Existing Discharge Irrigated Agriculture
	Proposed Discharge Irrigated Agriculture
	Proposed Reservoir
	Proposed Pipeline



File: Proj/bio-indx
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INDEX to TERRESTRIAL WILDLIFE HABITAT
and SPECIAL-STATUS WILDLIFE
OCCURRENCES on STORAGE RESERVOIRS



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Biological Resources Volume 4B - Maps: Aquatic Habitat and Special-Status Aquatic Species Occurrences on Storage Reservoirs

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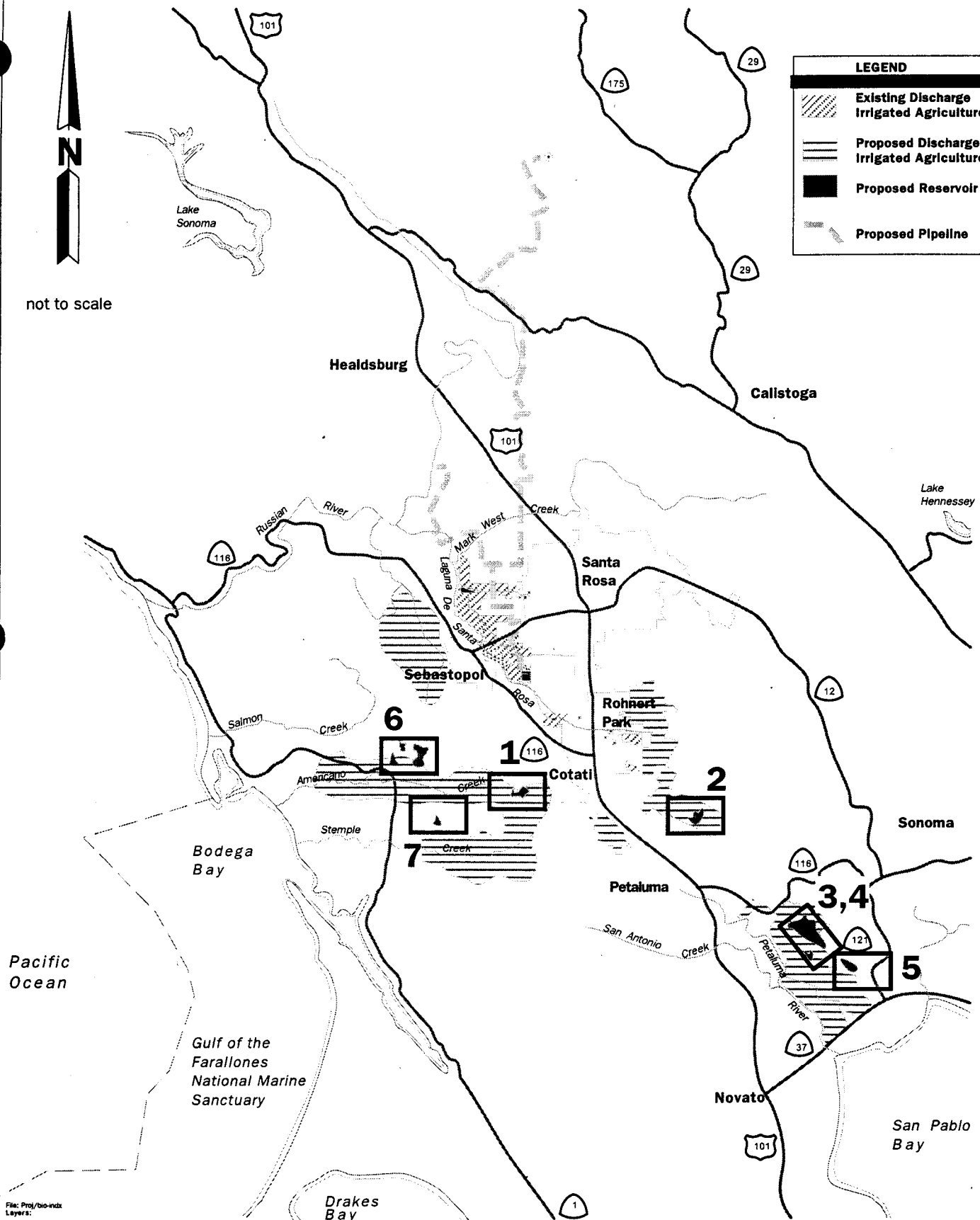
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INDEX to AQUATIC HABITAT
and SPECIAL-STATUS AQUATIC SPECIES
OCCURRENCES on STORAGE RESERVOIRS

**Biological Resources Volume 4C - Maps:
Vegetation Communities and Special-Status
Plant Occurrences on Storage Reservoirs**

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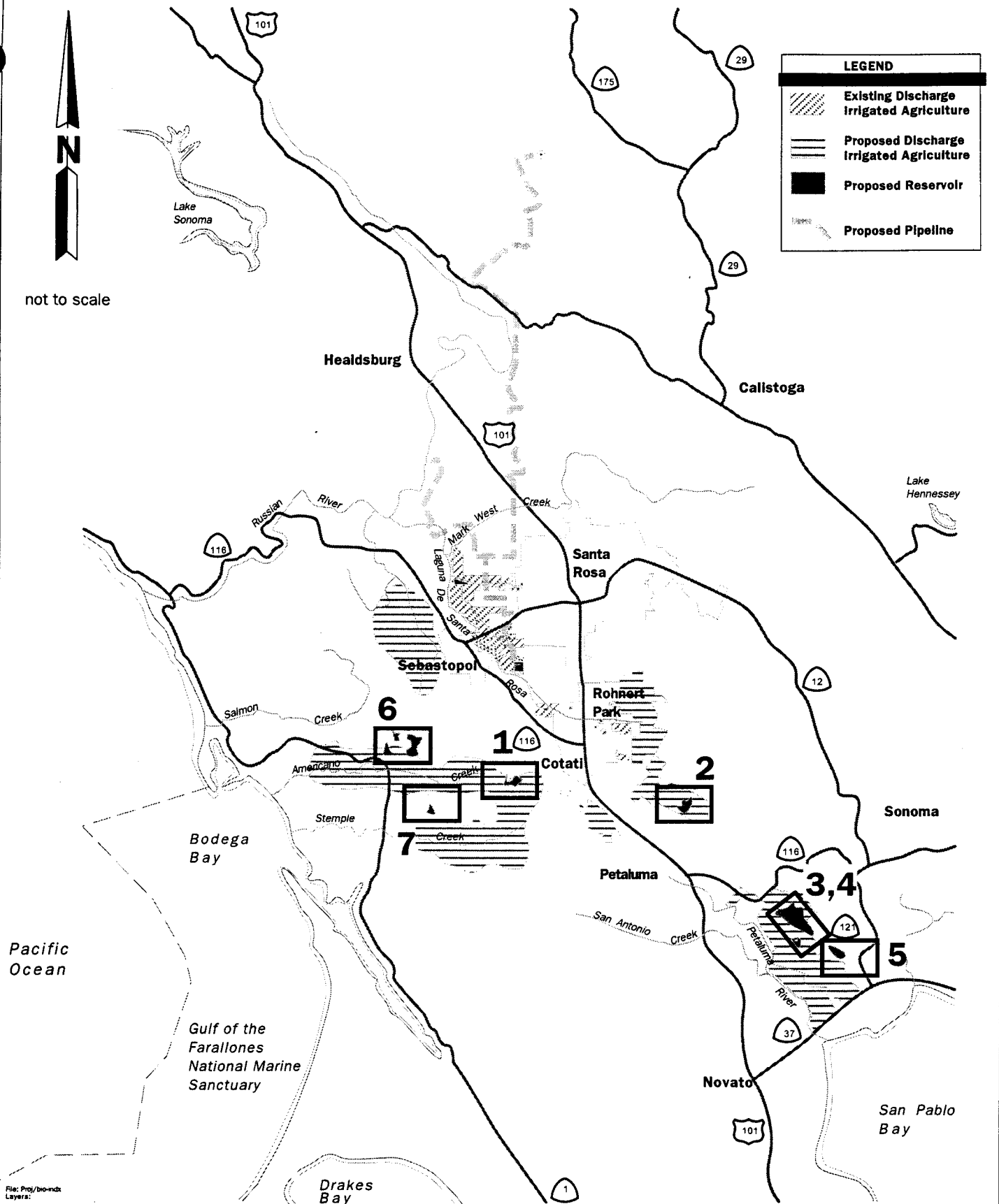
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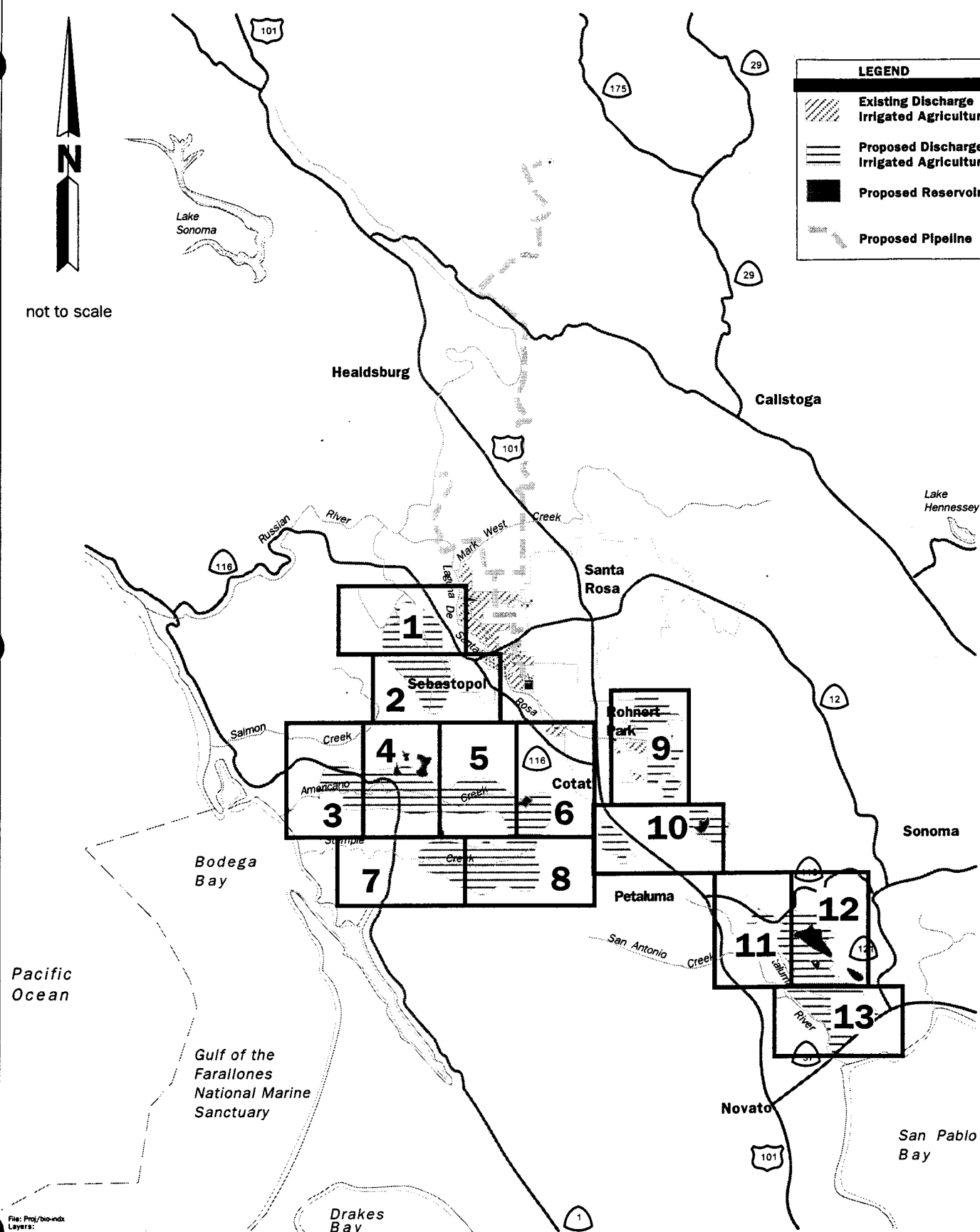
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INDEX to IRRIGATION AREA
VEGETATION COMMUNITIES and
SPECIAL STATUS SPECIES OCCURRENCES



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Index to Biological, Aquatic, and Wetland
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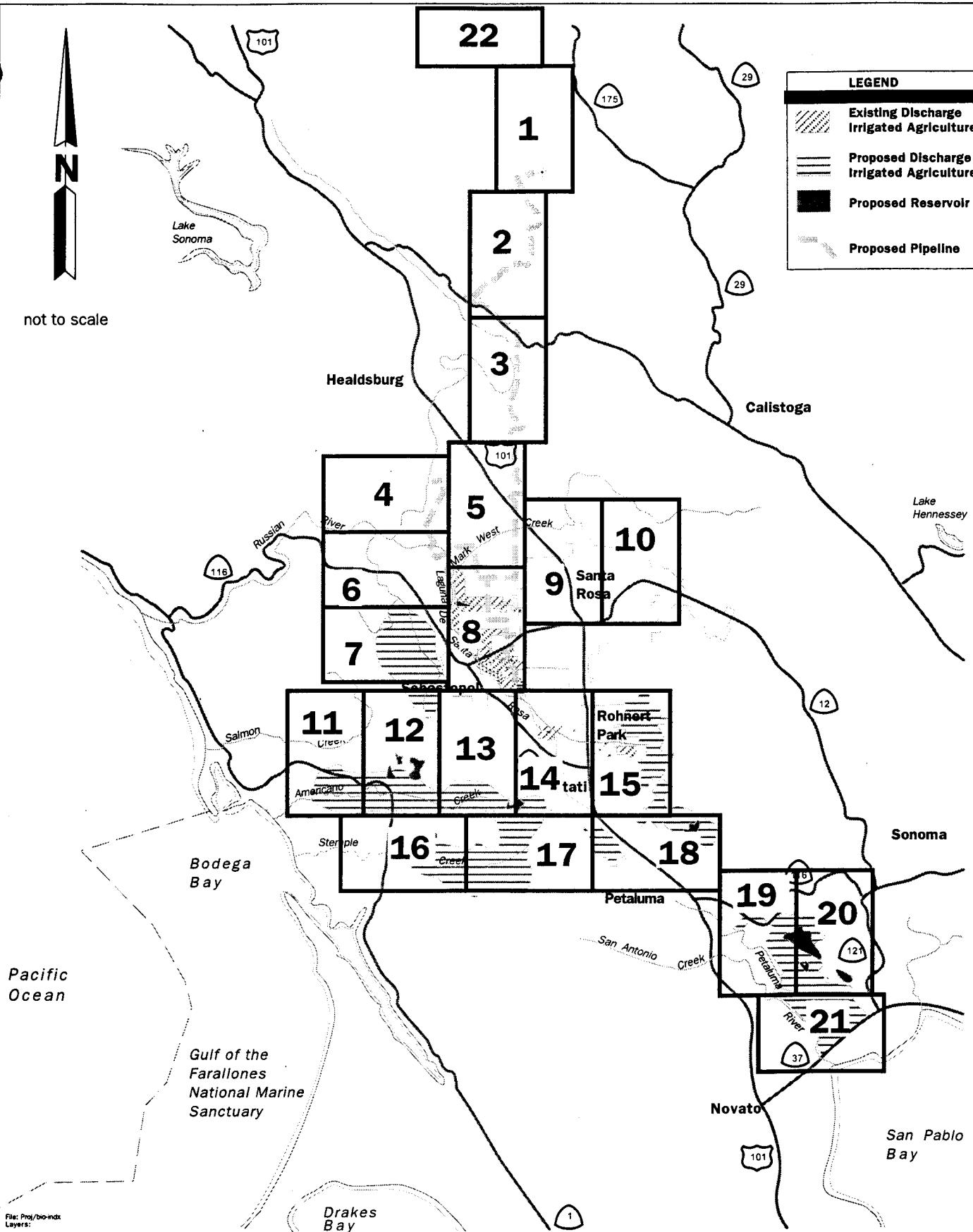
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INDEX to BIOLOGICAL AQUATIC,
and WETLAND RESOURCES ALONG
PIPELINES and PUMP STATIONS

The following Table 1 is a legend which correlates to the CNDDDB map index numbers that are noted for all special-status species and sensitive natural communities identified within 30 feet of proposed pipeline segments.

Table 1

Legend for CNDDDB Occurrences Identified Near Proposed Pipeline Routes¹

Sheet Number(s) ²	Map index Number	Species/Sensitive Natural Communities
1	17447	Mt. Saint Helena Morning-Glory
5	08126	Burke's Goldfields
5	26268	Burke's Goldfields
6	07988	Sonoma Alopecurus
6	08049	Vine Hill Manzanita
6	08035	Yellow Larkspur
6, 7	16020	White Sedge
7, 8	26293	Sonoma Spineflower
8, 13, 14	08160	Sonoma Alopecurus
8	26254	Sebastopol Meadowfoam
8	26261	Sebastopol Meadowfoam
11	07854	Showy Indian Clover
11	07889	Coastal Brackish Marsh
11	07895	Tidewater Goby
13	08088	California Freshwater Shrimp
14	30177	Northwestern Pond Turtle
14	08204	Western Yellow-Billed Cuckoo
14	08174	Sebastopol Meadowfoam
14	22144	Northwestern Pond Turtle
14	26053	California Tiger Salamander
14	08222	Showy Indian Clover
15	08368	Western Yellow-Billed Cuckoo
21	08474	Coastal Brackish Marsh
21	08865	Monarch Butterfly
21	08823	California Black Rail
21	08812	Saltmarsh Common Yellowthroat
21	08981	Northern Coastal Salt Marsh

Source: CNDDDB/Rarefind, 1996

Notes:

- 1 = The majority of these occurrence points are non-specific. Non-specific occurrences are noted on the maps by a circle with a radius ranging from 0.2 to 1 mile, depending upon the level of confidence.
2 = An occurrence polygon may overlap on more than one sheet.

Table 2 is the legend for the plant community polygons that were mapped for the entire Geysers geothermal field and along Pine Flat Road.

Table 2

Plant Community Legend

Abbreviation	Plant Community
MH/BM/CB/MO	(Montane Hardwood) Oak-Bay-Madrone Woodland
OW	Oak Woodland
CLO	Coast Live Oak
CHAP/CH	Chaparral
Kn	Knobcone Pine
DP	Foothill Pine
SLO/CB	Canyon Live Oak
MCy	McNab Cypress
MR/R	Mixed Riparian
ANG	Annual Grassland
BO	Blue Oak Woodland
URB	Urban
VINE	Vineyard
YP	Yellow Pine

Source: Harland Bartholomew & Associates, 1996