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PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
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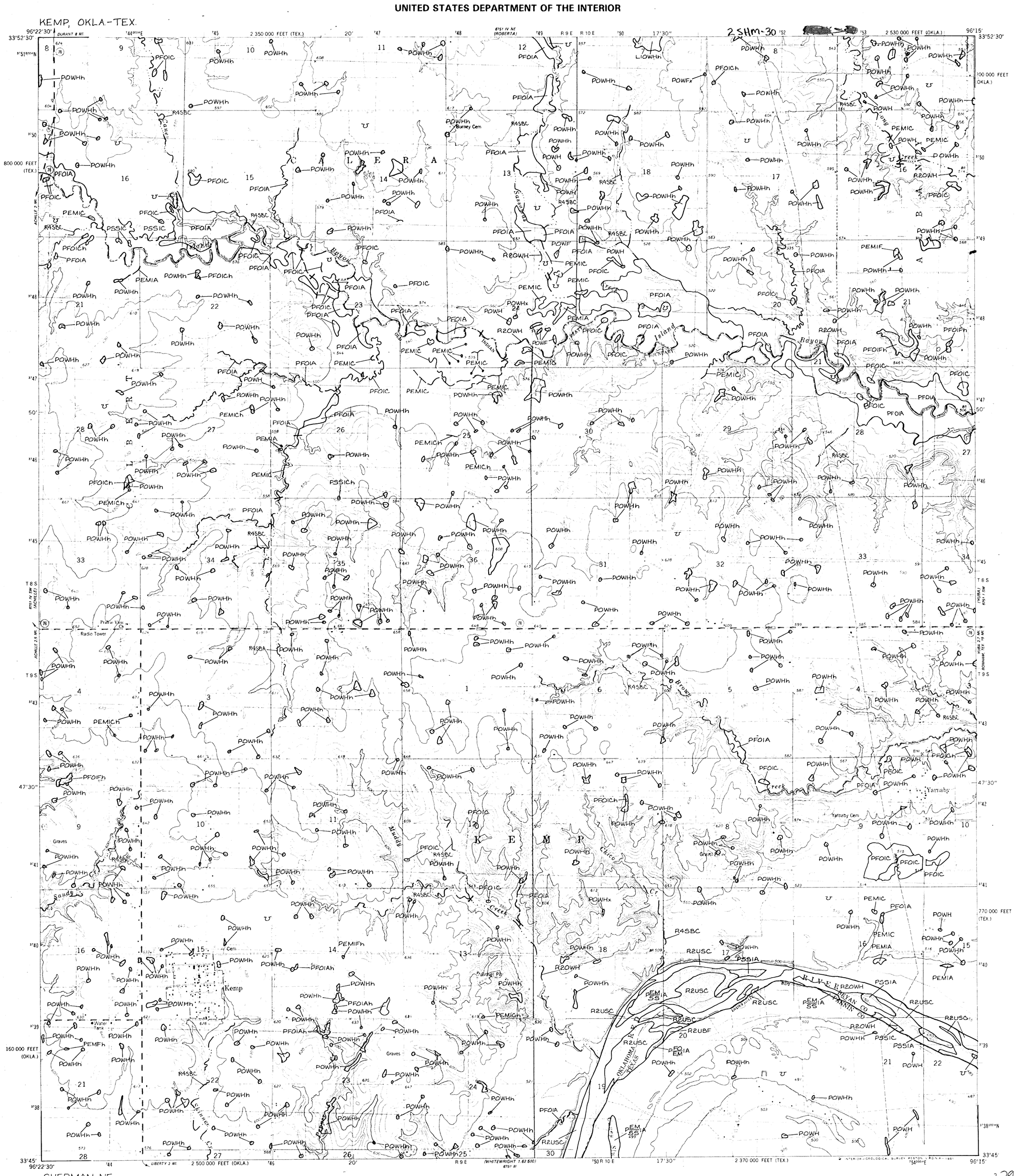
NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR



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1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

Other information concerning the wetland resources depicted on this document may be available. For information, contact:

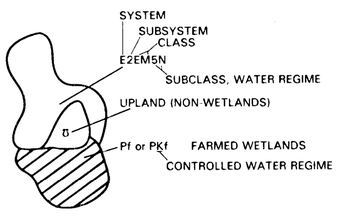
Regional Director (ARDE) Region II
U.S. Fish and Wildlife Service
P.O. Box 1306
Albuquerque, New Mexico 87103

SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology, and geography in accordance with **Classification of Wetlands and Deep-Water Habitats of the United States** (An Operational Draft), Cowardin, et al, 1977. The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

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.

SYMBOLOGY EXAMPLE



NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (*).
- Dominance type (either vegetative or sedentary animal) can be added to the map by the interested user.
- Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.

AERIAL PHOTOGRAPHY

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U.S. DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE

Prepared by Office of Biological Services for the National Wetlands Inventory

1990

WETLAND LEGEND

U – Primarily represents **upland** areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

ECOLOGICAL SYSTEM — E – ESTUARINE

- Ecological Subsystem: 1 – Subtidal; 2 – Intertidal
- CLASS: RB – ROCK BOTTOM; UB – UNCONSOLIDATED BOTTOM; AB – AQUATIC BED; RF – REEF; OW – OPEN WATER: Unknown Bottom; AB – AQUATIC BED; RF – REEF; FL – FLAT; SB – STREAMBED; RS – ROCKY SHORE; BB – BEACH/BAR; EM – EMERGENT; SS – SCRUB/SHRUB; FO – FORESTED
- Subclass: 1 Bedrock; 2 Boulder; 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 1 Submergent Algal; 2 Submergent Vascular; 4 Floating leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface; 2 Mollusc; 3 Worm; 1 Submergent Algal; 2 Submergent Vascular; 4 Unknown Submergent; 7 Unknown Surface; 2 Mollusc; 3 Worm; 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 5 Vegetated Pioneer; 6 Vegetated Non-pioneer; 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 6 Vegetated Non-pioneer; 1 Bedrock; 2 Boulder; 6 Vegetated Non-pioneer; 1 Cobble/Gravel; 2 Sand; 1 Persistent; 2 Nonpersistent; 3 Narrow leaved Nonpersistent; 4 Broad leaved Nonpersistent; 5 Narrow leaved Persistent; 6 Broad leaved Persistent; 1 Broad leaved Deciduous; 3 Broad leaved Evergreen; 4 Needle leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen; 1 Broad leaved Deciduous; 3 Broad leaved Evergreen; 4 Needle leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen

ECOLOGICAL SYSTEM — M – MARINE

- Ecological Subsystem: 1 – Subtidal; 2 – Intertidal
- CLASS: RB – ROCK BOTTOM; UB – UNCONSOLIDATED BOTTOM; AB – AQUATIC BED; RF – REEF; OW – OPEN WATER: Unknown Bottom; AB – AQUATIC BED; RF – REEF; FL – FLAT; RS – ROCKY SHORE; BB – BEACH/BAR
- Subclass: 1 Bedrock; 2 Boulder; 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 1 Submergent Algal; 2 Submergent Vascular; 6 Unknown Submergent; 1 Coral; 3 Worm; 1 Submergent Algal; 2 Submergent Vascular; 6 Unknown Submergent; 1 Coral; 3 Worm; 1 Cobble/Gravel; 2 Sand; 3 Mud; 6 Vegetated Non-pioneer; 1 Bedrock; 2 Boulder; 6 Vegetated Non-pioneer; 1 Cobble/Gravel; 2 Sand

ECOLOGICAL SYSTEM — P – PALUSTRINE

- No Subsystem
- CLASS: RB – ROCK BOTTOM; UB – UNCONSOLIDATED BOTTOM; AB – AQUATIC BED; FL – FLAT; ML – MOSS/LICHEN; EM – EMERGENT; SS – SCRUB/SHRUB; FO – FORESTED; OW – OPEN WATER: Unknown Bottom
- Subclass: 1 Bedrock; 2 Boulder; 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 1 Submergent Algal; 2 Submergent Vascular; 3 Submergent Moss; 4 Floating leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface; 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 5 Vegetated Pioneer; 6 Vegetated Non pioneer; 1 Moss; 2 Lichen; 1 Persistent; 2 Nonpersistent; 3 Narrow leaved Nonpersistent; 4 Broad leaved Nonpersistent; 5 Narrow leaved Persistent; 6 Broad leaved Persistent; 1 Broad leaved Deciduous; 2 Needle leaved Deciduous; 3 Broad leaved Evergreen; 4 Needle leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen; 1 Broad leaved Deciduous; 2 Needle leaved Deciduous; 3 Broad leaved Evergreen; 4 Needle leaved Evergreen; 5 Dead; 6 Deciduous; 7 Evergreen

ECOLOGICAL SYSTEM — L – LACUSTRINE

- Ecological Subsystem: 1 – Limnetic; 2 – Littoral
- CLASS: RB – ROCK BOTTOM; UB – UNCONSOLIDATED BOTTOM; AB – AQUATIC BED; OW – OPEN WATER: Unknown Bottom; RB – ROCK BOTTOM; UB – UNCONSOLIDATED BOTTOM; AB – AQUATIC BED; FL – FLAT; RS – ROCKY SHORE; BB – BEACH/BAR; EM – EMERGENT; OW – OPEN WATER: Unknown Bottom
- Subclass: 1 Bedrock; 2 Boulder; 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 1 Submergent Algal; 2 Submergent Vascular; 3 Submergent Moss; 4 Floating leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface; 1 Bedrock; 2 Boulder; 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 1 Submergent Algal; 2 Submergent Vascular; 3 Submergent Moss; 4 Floating leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface; 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 5 Vegetated Pioneer; 6 Vegetated Non-pioneer; 1 Bedrock; 2 Boulder; 1 Cobble/Gravel; 2 Sand; 2 Nonpersistent; 3 Narrow leaved Nonpersistent; 4 Broad leaved Nonpersistent

ECOLOGICAL SYSTEM — R – RIVERINE

- Ecological Subsystem: 1 – Tidal; 2 – Lower Perennial; 3 – Upper Perennial; 4 – Intermittent; 5 – Unknown Perennial
- CLASS: EM – EMERGENT(1); RB – ROCK BOTTOM; UB – UNCONSOLIDATED BOTTOM; AB – AQUATIC BED; FL – FLAT; SB – STREAMBED; RS – ROCKY SHORE; BB – BEACH/BAR; OW – OPEN WATER: Unknown Bottom
- Subclass: 2 Nonpersistent; 3 Narrow leaved Nonpersistent; 4 Broad leaved Nonpersistent; 1 Bedrock; 2 Boulder; 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 1 Submergent Algal; 2 Submergent Vascular; 3 Submergent Moss; 4 Floating leaved; 5 Floating; 6 Unknown Submergent; 7 Unknown Surface; 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 5 Vegetated Pioneer; 6 Vegetated Non-pioneer; 1 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 1 Bedrock; 2 Boulder; 1 Cobble/Gravel; 2 Sand

(1) EM – EMERGENTS are only found in the **Riverine Tidal** and **Riverine Lower Perennial** Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

- Non-Tidal: A Temporary; B Saturated; C Seasonal; D Seasonal Well-drained; E Seasonal Saturated; F Semipermanent; G Intermittently Exposed; H Permanent; J Intermittently Flooded; K Artificial; Z Intermittently Exposed/Permanent; W Intermittently Flooded/Temporary; Y Saturated/Semipermanent/Seasonal; U Unknown
- Tidal: K Artificial; L Subtidal; M Irregularly Exposed; N Regular; P Irregular; R Seasonal Tidal; S Temporary Tidal; T Semipermanent Tidal; V Permanent Tidal; Unknown

WATER CHEMISTRY

- Coastal Salinity: 1 Hyperhaline; 2 Euhaline; 3 Mixohaline (Brackish); 4 Polyhaline; 5 Mesohaline; 6 Oligohaline; 0 Fresh
- Inland Salinity: 7 Hypersaline; 8 Eusaline; 9 Mixosaline; 0 Fresh
- pH Modifiers for all Fresh Water: a Acid; t Circumneutral; i Alkaline

SOIL: g Organic; n Mineral

SPECIAL MODIFIERS: b Beaver; d Partially Drained/Ditched; f Farmed; h Diked/Impounded; r Artificial; s Spoil; x Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

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