NUMBER

DRAWING NUMBER

DRAWING NUMBER 3494-241

DRAWING

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

REORDER BY NUMBER 075AP

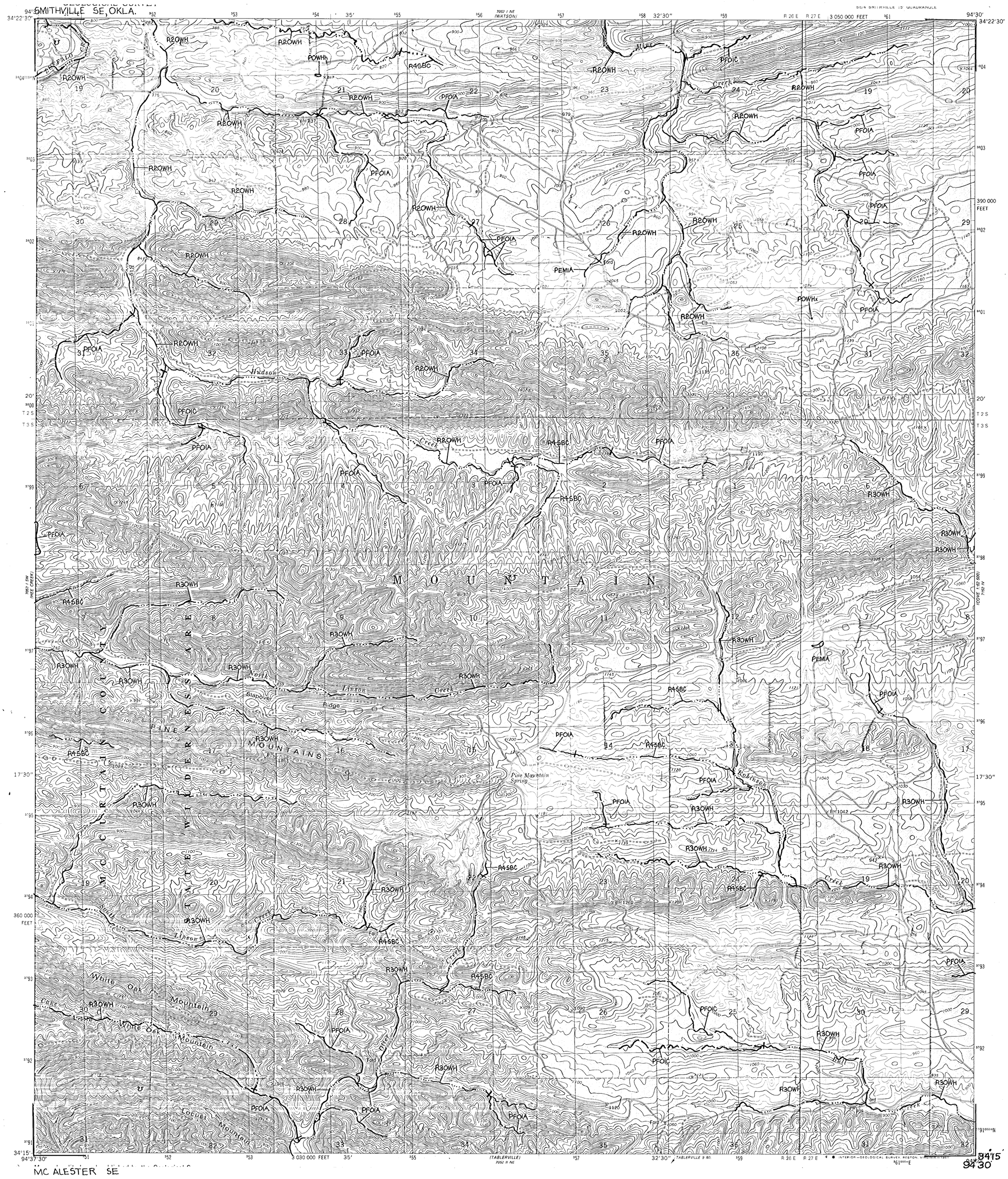
POSITION EDGE OF PRINT ON THIS LINE

AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

SMITHVILLE SE, OKLA.



MC ALESTER SE

DEQUEEN

SMITHVILLE SE, OKLA.

SCALE 1:24 000

1 MILE

7000 FEET

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

SYSTEM
SUBSYSTEM
CLASS
E2EM5N
SUBCLASS, WATER REGIME
UPLAND (NON-WETLANDS)
Pf or Pkf — FARMED WETLANDS
CONTROLLED WATER REGIME

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.
- Some areas designated R4SB, R4SBW, or R4SBJ (intermittent streams) may not meet the definition of wetlands.

AERIAL PHOTOGRAPHY

DATE: 3/ /80
SCALE: 1:58 000
TYPE: CIR

DATE: 3/ /81
SCALE: 1:58000
TYPE: CIR

DATE: / /
SCALE:
TYPE:

U.S. DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
Prepared by Office of Biological Services for the National Wetlands Inventory

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 Cobble/Gravel; 2 Sand; 3 Mud; 4 Organic; 5 Vegetated Pioneer; 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; 2 Needle-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 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 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)			WATER CHEMISTRY		SOIL	SPECIAL MODIFIERS
Non-Tidal		Tidal	Coastal Salinity	Inland Salinity / pH Modifiers for all Fresh Water		
A Temporary	H Permanent	R Seasonal Tidal	1 Hyperhaline	7 Hypersaline	g Organic	b Beaver
B Saturated	J Intermittently Flooded	S Temporary Tidal	2 Euhaline	8 Eusaline	n Mineral	d Partially Drained/Ditched
C Seasonal	K Artificial	T Semipermanent Tidal	3 Mixohaline (Brackish)	9 Mixosaline		f Farmed
D Seasonal Well drained	Z Intermittently Exposed/Permanent	V Permanent Tidal	4 Polyhaline	O Fresh		h Diked/Impounded
E Seasonal Saturated	W Intermittently Flooded/Temporary	U Unknown	5 Mesohaline			r Artificial
F Semipermanent	Y Saturated/Semipermanent/Seasonals		6 Oligohaline			s Spoil
G Intermittently Exposed	U Unknown		0 Fresh			x Excavated
	K Artificial		a Acid			
	L Subtidal		t Circumneutral			
	M Irregularly Exposed		i Alkaline			
	N Regular					
	P Irregular					

(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.

3494-241