

SOILS

| | | | | | |
|--|---------|---|----------------------------------|------------------------------------|--|
| Map Unit Name (Series and Phase): _____ | | Drainage Class: _____ | | | |
| Taxonomy (Subgroup): _____ | | Field Observations Confirm Mapped Type? Yes No | | | |
| <u>Profile Description:</u> | | | | | |
| Depth (inches) | Horizon | Matrix Color (Munsell Moist) | Mottle Colors (Munsell Moist) | Mottle Abundance/ Size/Contrast | Texture, Concretions, Structure, etc. |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| Hydric Soil Indicators: | | | | | |
| <input type="checkbox"/> Histic Epipedon | | <input type="checkbox"/> Concretions | | | |
| <input type="checkbox"/> Sulfidic Odor | | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils | | | |
| <input type="checkbox"/> Aquic Moisture Regime | | <input type="checkbox"/> Organic Streaking in Sandy Soils | | | |
| <input type="checkbox"/> Reducing Conditions | | <input type="checkbox"/> Listed on Local Hydric Soils List | | | |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | | <input type="checkbox"/> Listed on National Hydric Soils List | | | |
| | | <input type="checkbox"/> Other (Explain in Remarks) | | | |
| Remarks: | | | | | |

WETLAND DETERMINATION

| | | | | |
|---------------------------------|-----|----|----------|---|
| Hydrophytic Vegetation Present? | Yes | No | (Circle) | |
| Wetland Hydrology Present? | Yes | No | (Circle) | |
| Hydric Soils Present? | Yes | No | | Is this Sampling Point Within a Wetland? Yes No |
| Remarks: | | | | |

Approved by HQUSACE 3/92

DATA FORM 1
WETLAND DETERMINATION

Applicant Name: _____ Application Number: _____ Project Name: _____
 State: _____ County: _____ Legal Description: _____ Township: _____ Range: _____
 Date: _____ Plot No.: _____ Section: _____

Vegetation [list the three dominant species in each vegetation layer (5 if only 1 or 2 layers)]. Indicate species with observed morphological or known physiological adaptations with an asterisk.

| <u>Species</u> | <u>Indicator Status</u> | <u>Species</u> | <u>Indicator Status</u> |
|------------------------|-------------------------|--------------------|-------------------------|
| <u>Trees</u> | | <u>Herbs</u> | |
| 1. | | 7. | |
| 2. | | 8. | |
| 3. | | 9. | |
| <u>Saplings/shrubs</u> | | <u>Woody vines</u> | |
| 4. | | 10. | |
| 5. | | 11. | |
| 6. | | 12. | |

% of species that are OBL, FACW, and/or FAC: _____. Other indicators: _____.
 Hydrophytic vegetation: Yes ____ No ____ . Basis: _____.

Soil
 Series and phase: _____ On hydric soils list? Yes ____; No ____.
 Mottled: Yes ____; No ____ . Mottle color: _____; Matrix color: _____.
 Gleyed: Yes ____ No ____ Other indicators: _____.
 Hydric soils: Yes ____ No ____; Basis: _____.

Hydrology
 Inundated: Yes ____; No ____ . Depth of standing water: _____.
 Saturated soils: Yes ____; No ____ . Depth to saturated soil: _____.
 Other indicators: _____.
 Wetland hydrology: Yes ____; No ____ . Basis: _____.
 Atypical situation: Yes ____; No ____ .
Normal Circumstances? Yes ____ No ____ .
Wetland Determination: Wetland _____; Nonwetland _____.

Comments:

Determined by: _____

DATA FORM 2

VEGETATION-COMPREHENSIVE DETERMINATION

Applicant Name: _____ Application No.: _____ Project Name: _____
 Location: _____ Plot #: _____ Date: _____ Determined By: _____

VEGETATION LAYER

| <u>TREES</u> | <u>BASAL AREA</u> | <u>TOTAL BASAL AREA</u> | <u>RANK</u> | <u>HERBS</u> | <u>MIDPOINT OF % COVER CLASS</u> | <u>RANK</u> |
|--------------|-------------------|---------------------------------|-------------|--------------|--------------------------------------|-------------|
| 1 | | | | 1 | | |
| 2 | | | | 2 | | |
| 3 | | | | 3 | | |
| 4 | | | | 4 | | |
| 5 | | | | 5 | | |
| 6 | | | | 6 | | |
| 7 | | | | 7 | | |
| 8 | | | | 8 | | |
| 9 | | | | 9 | | |
| 10 | | | | 10 | | |

| <u>SAPPLINGS/SHRUBS</u> | <u>MIDPOINT OF HEIGHT CLASS</u> | <u>TOTAL HEIGHT CLASS</u> | <u>RANK</u> | <u>WOODY VINES</u> | <u>NUMBER OF STEMS</u> | <u>RANK</u> |
|-------------------------|-------------------------------------|-----------------------------------|-------------|--------------------|----------------------------|-------------|
| 1 | | | | 1 | | |
| 2 | | | | 2 | | |
| 3 | | | | 3 | | |
| 4 | | | | 4 | | |
| 5 | | | | 5 | | |
| 6 | | | | 6 | | |
| 7 | | | | 7 | | |
| 8 | | | | 8 | | |
| 9 | | | | 9 | | |
| 10 | | | | 10 | | |

DATA FORM 3
ATYPICAL SITUATIONS

Applicant Name: _____ Application Number: _____ Project Name: _____
Location: _____ Plot Number: _____ Date: _____

A. VEGETATION:

1. Type of Alteration: _____

2. Effect on Vegetation: _____

3. Previous Vegetation: _____
(Attach documentation) _____
4. Hydrophytic Vegetation? Yes _____ No _____

B. SOILS:

1. Type of Alteration: _____

2. Effect on Soils: _____

3. Previous Soils: _____
(Attach documentation) _____
4. Hydric Soils? Yes _____ No _____

C. HYDROLOGY:

1. Type of Alteration: _____

2. Effect on Hydrology: _____

3. Previous Hydrology: _____
(Attach documentation) _____
4. Wetland Hydrology? Yes _____ No _____

Characterized By: _____

DATA FORM 1
WETLAND DETERMINATION

Applicant Name: John Doe Application Number: R-85-1421 Project Name: Zena Acricultural Land
 State: LA County: Choctaw Legal Description: _____ Township: 7N Range: 2E
 Date: 10/08/85 Plot No.: 1-1 Section: 32

Vegetation [list the three dominant species in each vegetation layer (5 if only 1 or 2 layers)]. Indicate species with observed morphological or known physiological adaptations with an asterisk.

| <u>Species</u> | <u>Indicator Status</u> | <u>Species</u> | <u>Indicator Status</u> |
|--------------------------------|-------------------------|-------------------------------------|-------------------------|
| <u>Trees</u> | | <u>Herbs</u> | |
| 1. <i>Quercus lyrata</i> | OBL | 7. <i>Polygonum hydropiperoides</i> | OBL |
| 2. <i>Carya aquatica</i> | OBL | 8. <i>Boehmeria cylindrica</i> | FACW+ |
| 3. <i>Gleditsia aquatica</i> | OBL | 9. <i>Brunnichia cirrhosa</i> | -- |
| <u>Saplings/shurbs</u> | | <u>Woody vines</u> | |
| 4. <i>Forestiera acuminata</i> | OBL | 10. <i>Toxicodendron radicans</i> | FAC |
| 5. <i>Planera aquatica</i> | OBL | 11. -- | -- |
| 6. -- | -- | 12. -- | -- |

% of species that are OBL, FACW, and/or FAC: 100%. Other indicators: --.

Hydrophytic vegetation: Yes X No _____. Basis: 50% of dominants are OBL, FACW, and/or FAC on plant list.

Soil

Series and phase: Sharkey, frequently flooded On hydric soils list? Yes X; No _____.
 Mottled: Yes X; No _____. Mottle color: 5YR4/6; Matrix color: 10YR4/1.
 Gleyed: Yes ____ No X. Other indicators: _____.
 Hydric soils: Yes X No _____. Basis: On hydric soil list and matrix color.

Hydrology

Inundated: Yes ____; No X. Depth of standing water: _____.
 Saturated soils: Yes X; No _____. Depth to saturated soil: 6".
 Other indicators: Drift lines and sediment deposits present on trees.
 Wetland hydrology: Yes X; No _____. Basis: Saturated soils.
 Atypical situation: Yes ____; No X.

Normal Circumstances?: Yes X No ____.

Wetland Determination: Wetland X; Nonwetland _____.

Comments: No rain reported from area in previous two weeks.

Determined by: Zelda Schmill (Signed)

DATA FORM 2

VEGETATION-COMPREHENSIVE DETERMINATION

Applicant Name: John Doe Application No.: R-85-1421 Project Name: Zena Agricultural Land
 Location: LA (Choctaw Parish) Plot #: 1-1 Date: 10/08/85 Determined By: Zelda Schmall

VEGETATION LAYER

| TREES | BASAL AREA (in ²) | TOTAL BASAL AREA | RANK | HERBS | MIDPOINT OF % COVER CLASS | RANK |
|-------------------------------|----------------------------------|------------------------|------|--|------------------------------|------|
| 1 <i>Quercus lyrata</i> | 465 | 1,145 | 1 | 1 <i>Boehmeria cylindrica</i> | 37.5 | 2 |
| 2 <i>Quercus lyrata</i> | 680 | | | 2 <i>Polygonum hydropiperoides</i> | 62.5 | 1 |
| 3 <i>Carya aquatica</i> | 85 | 243 | 3 | 3 <i>Brunnichia ovata</i> | 37.5 | 3 |
| 4 <i>Carya aquatica</i> | 120 | | | 4 <i>Gleditsia aquatica</i> (seedling) | 2.5 | |
| 5 <i>Carya aquatica</i> | 38 | | | 5 <i>Eclipta alba</i> | 2.5 | |
| 6 <i>Gleditsia aquatica</i> | 235 | 253 | 2 | 6 | | |
| 7 <i>Gleditsia aquatica</i> | 18 | | | 7 | | |
| 8 <i>Diospyros virginiana</i> | 46 | 46 | | 8 | | |
| 9 | | | | 9 | | |
| 10 | | | | 10 | | |

| SAPLINGS/SHRUBS | MIDPOINT OF HEIGHT CLASS | TOTAL HEIGHT CLASS | RANK | WOODY VINES | NUMBER OF STEMS | RANK |
|-------------------------------|-----------------------------------|--------------------------|------|---------------------------------|--------------------|------|
| 1 <i>Forestiera acuminata</i> | 4.5 | 13.0 | 1 | 1 <i>Toricodendron radicans</i> | 35 | 1 |
| 2 <i>Forestiera acuminata</i> | 4.5 | | | 2 (only woody vine present) | | |
| 3 <i>Forestiera acuminata</i> | 1.5 | | | 3 | | |
| 4 <i>Forestiera acuminata</i> | 2.5 | | | 4 | | |
| 5 <i>Planera aquatica</i> | 4.5 | 8.0 | 2 | 5 | | |
| 6 <i>Planera aquatica</i> | 3.5 | | | 6 | | |
| 7 <i>Carya aquatica</i> | 1.5 | 1.5 | | 7 | | |
| 8 | | | | 8 | | |
| 9 | | | | 9 | | |
| 10 | | | | 10 | | |

DATA FORM 3
ATYPICAL SITUATIONS

Applicant Name: Wetland Developers, Inc. Application Number: R-85-12 Project Name: Big Canal
Location: Joshua Co., MT Plot Number: 2 Date: 10/08/85

A. VEGETATION:

1. Type of Alteration: Vegetation totally removed or covered by placement of fill from canal (1984)
2. Effect on Vegetation: None remaining
3. Previous Vegetation: Carex nebrascensis - Juncus effusus freshwater (Attach documentation) marsh (based on contiguous plant communities and aerial photography predating fill)
4. Hydrophytic Vegetation? Yes X No

B. SOILS:

1. Type of Alteration: Original soil covered by 4 feet of fill material excavated from canal
2. Effect on Soils: Original soil buried in 1984
3. Previous Soils: Original soil examined at 10 inches below (Attach documentation) original soil surface. Soil gleyed (color notation 5Y2/0)
4. Hydric Soils? Yes X No

C. HYDROLOGY:

1. Type of Alteration: 4 feet of fill material placed on original surface
2. Effect on Hydrology: Area no longer is inundated
3. Previous Hydrology: Examination of color IR photography taken on 6/5/84 (Attach documentation) showed the area to be inundated. Gaging station data from gage 2 miles upstream indicated the area has been inundated for as much as 3 months of the growing season during 8 of the past 12 years
4. Wetland Hydrology? Yes X No

Characterized By: Joe Zook