

Appendix

Tract 1-1

Site 1: This wetland is located in Tract 1 and is classified by the NWI as PFO1A. See attached map for location.

Approximate size: 6.5 ha (16 acres)

Vegetation: (* indicates dominate vegetation)

- | | | |
|-------------|--|--------------------------------------|
| overstory - | * <i>Quercus nigra</i> <u>FAC</u> | * <i>Q. phellos</i> <u>FACW-</u> |
| | * <i>Nyssa sylvatica</i> <u>FAC</u> | * <i>Acer rubrum</i> <u>FAC</u> |
| | * <i>Q. lyrata</i> <u>OBL</u> | <i>Q. michauxii</i> <u>FACW-</u> |
| shrub - | * <i>N. sylvatica</i> <u>FAC</u> | <i>A. rubrum</i> <u>FAC</u> |
| | * <i>Liquidambar styraciflua</i> <u>FAC+</u> | <i>Q. phellos</i> <u>FACW-</u> |
| | <i>Liriodendron tulipifera</i> <u>FAC</u> | |
| | <i>Carpinus carolinia</i> <u>FAC</u> | |
| Herbs - | * <i>Chasmanthium</i> sp. <u>FACW</u> | * <i>S. bona-nox</i> <u>FAC</u> |
| | <i>Smilax rotundifolia</i> <u>FAC</u> | * <i>Saururus cernuus</i> <u>OBL</u> |
| | <i>Rhododendron viscosum</i> <u>FACW+</u> | * <i>N. sylvatica</i> <u>FAC</u> |

Percent dominates FAC or wetter: 100% (11/11)

Remarks: This area consists of mature hardwoods with minimal regeneration.

Hydrology:

- | | |
|---|---|
| Primary Indicators: | Secondary Indicators (2 required): |
| <input type="checkbox"/> Inundated | <input checked="" type="checkbox"/> Oxidized root channels in upper 12" |
| <input type="checkbox"/> Saturated in upper 12" | <input checked="" type="checkbox"/> Water-stained leaves |
| <input checked="" type="checkbox"/> Water marks | <input type="checkbox"/> Local soil survey data |
| <input type="checkbox"/> Sediment deposits | <input type="checkbox"/> FAC-Neutral test |
| <input type="checkbox"/> Drainage patterns | <input checked="" type="checkbox"/> Other (Explain in remarks) |

Remarks: Fluting

Soils:

Hydric Soil Indicators:

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic epipedon | <input type="checkbox"/> High organic content in surface layer of sandy soils |
| <input type="checkbox"/> Sulfidic odor | <input type="checkbox"/> Organic streaking in sandy soils |
| <input type="checkbox"/> Aquic moisture regime | <input type="checkbox"/> Listed on hydric soils list |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> Listed on National hydric soils list |
| <input checked="" type="checkbox"/> Gleyed or low-chroma colors | |
| <input checked="" type="checkbox"/> Other (Explain in remarks) | |

Remarks: 10YR 5/1 at 25.4 cm (10 inches), Hydric soil indicator F-8

Wetland Determination:

- | | | |
|---------------------------------|---|-----------------------------|
| Hydrophytic vegetation present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Wetland Hydrology Present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Hydric Soils Present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Is this a wetland? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |

FUNCTIONS

Site: 1

HGM Classification: Depressional

X Flood Storage.

X Water Quality Enhancement:

X Bio-geochemical Functions:

 Other : Remarks

Wildlife:

 Fish Habitat: Remarks:

X Amphibian/Reptile Breeding: Remarks: Lack of fish predators enhances reproduction and survival.

Species:
Spotted Salamander
Marbled Salamander
Wood Frog

X Bird Habitat:

Species:
*Yellow-billed Cuckoo
*Red-eyed Vireo
*White-breasted Nuthatch
*Tufted Titmouse
*Wood thrush
*Carolina Chickadee
*Downy Woodpecker

*Species sighted or heard.

X Mammal Habitat:

Species:
*White-tailed Deer
*Raccoon
small mammals

*Species or sign (tracks) observed.

 Other: Remarks:

Tract 1-2

Site 2: This wetland is located in tract 1 and is classified by the NWI as PFO1C. See attached map for location.

Approximate size: .2 hectares (.5 acres)

Vegetation: (* indicates dominate vegetation)

overstory - * *Plantanus occidentalis* FACW- *Acer saccharinum* FACW
 * *Fraxinus pennsylvanica* FACW

shrub - * *A. rubrum* FAC

Herbs - * *Campsis radicans* FAC * *Juncus effusus* FACW+
 * *Carex gigantea* OEL

Percent dominates FAC or wetter: 100% (6/6)

Remarks: Vegetation is dominated by pole-size timber.

Hydrology:

Primary Indicators:

Inundated
 Saturated in upper 12"
 Water marks
 Sediment deposits
 Drainage patterns

Secondary Indicators (2 required):

Oxidized root channels in upper 12"
 Water-stained leaves
 Local soil survey data
 FAC-Neutral test
 Other (Explain in remarks)

Remarks:

Soils:

Hydric Soil Indicators:

| | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic epipedon | <input type="checkbox"/> High organic content in surface layer of sandy soils |
| <input type="checkbox"/> Sulfidic odor | <input type="checkbox"/> Organic streaking in sandy soils |
| <input type="checkbox"/> Aquic moisture regime | <input type="checkbox"/> Listed on hydric soils list |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> Listed on National hydric soils list |
| <input checked="" type="checkbox"/> Gleyed or low-chroma colors | |
| <input checked="" type="checkbox"/> Other (Explain in remarks) | |

Remarks: 10 YR 5/1 at 25.4 cm (10 inches), Mottles

Wetland Determination:

| | | |
|---------------------------------|---|-----------------------------|
| Hydrophytic vegetation present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Wetland Hydrology Present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Hydric Soils Present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Is this a wetland? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |

FUNCTIONS

Site: 2

HGM Classification: Depressional

X Flood Storage.

X Water Quality Enhancement:

X Bio-geochemical Functions:

 Other : Remarks

Wildlife:

 Fish Habitat Remarks:

X Amphibian/Reptile: Remarks: Lack of fish predators enhances reproduction and survival.

Species:
Red-spotted Newt
Spotted Salamander
Marbled Salamander
Mole Salamander

X Bird Habitat:

Species:
*Yellow-breasted Chat
Prairie Warbler
Yellow Warbler
Indigo Bunting
Common Yellowthroat
Song Sparrow
Ruby-crowned Kinglet

*Species observed or heard.

X Mammal Habitat:

Species:
*White-tailed Deer
Raccoon
small mammals

*Species or sign (tracks) observed.

* Other: Remarks: Two bald eagles (adult male and juvenile) were observed in this area.

Tract 1-3

Site 3: This wetland is located in Tract 1 and is classified by the NWI as PEM1A. See attached map for location.

Approximate size: 1 hectare (2.5 acres)

Vegetation: (* indicates dominate vegetation)

| | | |
|-------------|---|--|
| overstory - | * <i>Fraxinus pennsylvanica</i> <u>FACW</u> | <i>Celtis</i> sp. |
| | <i>Gleditsia triacanthos</i> <u>FAC-</u> | * <i>Acer rubrum</i> <u>FAC</u> |
| | <i>A. negundo</i> <u>FACW</u> | * <i>Quercus. phellos</i> <u>FACW-</u> |
| shrub - | <i>Campsis radicans</i> <u>FAC</u> | * <i>A. rubrum</i> <u>FAC</u> |
| | <i>Cornus amomum</i> <u>FACW+</u> | * <i>Q. phellos</i> <u>FACW-</u> |
| Herbs - | <i>Cyperus</i> sp. <u>FACW</u> | * <i>Carex</i> sp. <u>FACW</u> |
| | <i>Rhus radicans</i> <u>FAC</u> | * <i>Panicum</i> sp. |
| | * <i>Juncus effusus</i> <u>FACW+</u> | * <i>C. radicans</i> <u>FAC</u> |

Percent dominates FAC or wetter: 100% (9/9)

Remarks: Vegetation dominated by pole-size timber.

Hydrology:

| | |
|---|--|
| Primary Indicators: | Secondary Indicators (2 required): |
| <input type="checkbox"/> Inundated | <input type="checkbox"/> Oxidized root channels in upper 12" |
| <input type="checkbox"/> Saturated in upper 12" | <input checked="" type="checkbox"/> Water-stained leaves |
| <input checked="" type="checkbox"/> Water marks | <input type="checkbox"/> Local soil survey data |
| <input type="checkbox"/> Sediment deposits | <input type="checkbox"/> FAC-Neutral test |
| <input type="checkbox"/> Drainage patterns | <input type="checkbox"/> Other (Explain in remarks) |

Remarks:

Soils:

Hydric Soil Indicators:

| | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic epipedon | <input type="checkbox"/> High organic content in surface layer of sandy soils |
| <input type="checkbox"/> Sulfidic odor | <input type="checkbox"/> Organic streaking in sandy soils |
| <input type="checkbox"/> Aquic moisture regime | <input type="checkbox"/> Listed on hydric soils list |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> Listed on National hydric soils list |
| <input checked="" type="checkbox"/> Gleyed or low-chroma colors | <input type="checkbox"/> Other (Explain in remarks) |
| <input type="checkbox"/> Other (Explain in remarks) | |

Remarks: 10YR 6/2 at 25.4 cm (10 inches)

Wetland Determination:

| | | |
|---------------------------------|---|-----------------------------|
| Hydrophytic vegetation present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Wetland Hydrology Present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Hydric Soils Present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Is this a wetland? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |

FUNCTIONS

Site: 3

HGM Classification: Depressional

X Flood Storage.

X Water Quality Enhancement:

X Bio-geochemical Functions:

 Other : Remarks

Wildlife:

 Fish Habitat Remarks:

X Amphibian/Reptile: Remarks: Lack of fish predators enhances reproduction and survival.

Species:
Mole Salamander
Spotted Salamander
Marbled Salamander

X Bird Habitat:

Species:
Yellow-breasted Chat
Prairie Warbler
Yellow Warbler
Indigo Bunting
Swamp Sparrow
Common Yellowthroat

*Species observed or heard.

X Mammal Habitat:

Species:
*White-tailed Deer
*Raccoon
small mammals

*Species or sign (tracks) observed.

* Other: Remarks: Two bald eagles (adult male and juvenile) were observed in this area.

Tract 1-4

Site 4: This wetland is located in Tract 1 and is classified by the NWI as PSSIC. See attached map for location.

EM

Approximate size: .85 hectares (2.1 acres)

Vegetation: (* indicates dominate vegetation)

overstory - no overstory

shrub - * *Fraxinus pennsylvanica* FACW * *Salix nigra* OBL

Herbs - * *Juncus effusus* FACW * *Lippia alba* FAC+
* *Carex gigantea* FACW * *Polygonum* sp.
Xanthium sp. FAC *Carex* spp.

Percent dominates FAC or wetter: 83% (5/6)

Remarks: Vegetation interspersed with shrubs and pole-size timber.

Hydrology:

Primary Indicators:

- Inundated
- Saturated in upper 12"
- Water marks
- Sediment deposits
- Drainage patterns

Secondary Indicators (2 required):

- Oxidized root channels in upper 12"
- Water-stained leaves
- Local soil survey data
- FAC-Neutral test
- Other (Explain in remarks)

Remarks:

Soils:

Hydric Soil Indicators:

- Histosol
- Histic epipedon
- Sulfidic odor
- Aquic moisture regime
- Reducing conditions
- Gleyed or low-chroma colors
- Other (Explain in remarks)
- Concretions
- High organic content in surface layer of sandy soils
- Organic streaking in sandy soils
- Listed on hydric soils list
- Listed on National hydric soils list

Remarks: 10 YR 4/2 at 25.4 cm (10 inches), Mottles

Wetland Determination:

- Hydrophytic vegetation present? yes no
- Wetland Hydrology Present? yes no
- Hydric Soils Present? yes no
- Is this a wetland? yes no

FUNCTIONS

Site: 4

HGM Classification: Depressional

X Flood Storage.

X Water Quality Enhancement:

X Bio-geochemical Functions:

 Other : Remarks

Wildlife:

 Fish Habitat Remarks:

X Amphibian/Reptile: Remarks: Lack of fish predators enhances reproduction and survival.

Species:

Marbled Salamander
Spotted Salamander
Marbled Salamander

X Bird Habitat:

Species:

Yellow-breasted Chat
Prairie Warbler
Yellow Warbler
Indigo Bunting
Common Yellowthroat
Swamp Sparrow
Fox Sparrow
Song Sparrow

*Species observed or heard

X Mammal Habitat:

Species:

*White-tailed Deer
Raccoon
small mammals

*Species or sign (tracks) observed.

* Other: Remarks: Two bald eagles (adult male and juvenile) were observed in this area.

Tract 1-5

Site 5: This wetland is located in Tract 1 and is classified by the NWI as POWHx. See attached map for location.

Approximate size: .08 hectares (.25 acre)

Vegetation: (* indicates dominate vegetation)

overstory - No overstory species present.

shrub - * *Acer negundo* FACW * *Alnus serrulata* FACW+

Herbs - * *Juncus effusus* FACW+ * *Hibiscus* sp. OBL
 * *A. serrulata* FACW+ * *Cephalanthus occidentalis* OBL

Percent dominates FAC or wetter: 100% (6/6)

Remarks:

Hydrology:

Primary Indicators:

Inundated
 Saturated in upper 12"
 Water marks
 Sediment deposits
 Drainage patterns

Secondary Indicators (2 required):

Oxidized root channels in upper 12"
 Water-stained leaves
 Local soil survey data
 FAC-Neutral test
 Other (Explain in remarks)

Remarks: This is a pond with shrubs along the edge.

Soils:

Hydric Soil Indicators:

| | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic epipedon | <input type="checkbox"/> High organic content in surface layer of sandy soils |
| <input type="checkbox"/> Sulfidic odor | <input type="checkbox"/> Organic streaking in sandy soils |
| <input type="checkbox"/> Aquic moisture regime | <input type="checkbox"/> Listed on hydric soils list |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> Listed on National hydric soils list |
| <input checked="" type="checkbox"/> Gleyed or low-chroma colors | |
| <input type="checkbox"/> Other (Explain in remarks) | |

Remarks : 10 YR 5/1 at 25.4 cm (10 inches)

Wetland Determination:

| | | |
|---------------------------------|---|-----------------------------|
| Hydrophytic vegetation present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Wetland Hydrology Present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Hydric Soils Present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Is this a wetland? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |

FUNCTIONS

Site: 6

HGM Classification: Depressional

X Flood Storage.

X Water Quality Enhancement: Remarks:

X Bio-geochemical Functions:

 Other : Remarks

Wildlife:

X Fish Habitat Remarks:

X Amphibian/Reptile: Remarks: Primarily frogs.

Species:

Spotted Salamander
Marbled Salamander
Bullfrog
Chorus Frog
Spring Peeper

X Bird Habitat:

Species:

*Great Blue Heron
*Green Heron
Common Yellowthroat
*Woodpeckers (snags present)

*Species observed or heard

X Mammal Habitat:

Species:

*Beaver
*White-tailed deer
Muskrat
Mink
*Raccoon

*Species or sign (tracks) observed

X Other: Remarks: May get Prothonotary Warblers in this area.

Tract 1-7

Site 7: This wetland is located in Tract 1 and is not included in the NWI. It would be classified as PFO1C. It is located SE of site 3 . See attached map for location.

Approximate size: .8 hectares (2 acres)

Vegetation: (* indicates dominate vegetation)

overstory - *Quercus. phellos* FACW- *Platinus occidentalis* FACW-
* *Acer rubrum* FAC * *Fraxinus pennsylvanica* FACW

shrub - * *A. rubrum* FAC

Herbs - * *Boehemeria cylindrica* FACW+ *Carex sp.* FACW *Ulmus alata* FAC+
* *A. rubrum* FAC *Saururus cernuus* OBL *Mimulus sp.* OBL
* *Microstegium vimineum* *Campsis radicans* FAC
* *Panicum sp.* *Cyperus sp.* FAC *Impatiens sp*

Percent dominates FAC or wetter: 71% (5/7)

Remarks: Vegetation in this area is dominated by immature sawtimber.

Hydrology:

Primary Indicators:

- Inundated
- Saturated in upper 12"
- Water marks
- Sediment deposits
- X Drainage patterns

Secondary Indicators (2 required):

- Oxidized root channels in upper 12"
- X Water-stained leaves
- Local soil survey data
- FAC-Neutral test
- X Other (Explain in remarks)

Remarks: Crawfish burrows

Soils:

Hydric Soil Indicators:

- Histosol
- Histic epipedon
- Sulfidic odor
- Aquic moisture regime
- Reducing conditions
- Gleyed or low-chroma colors
- X Other (Explain in remarks)
- Concretions
- High organic content in surface layer of sandy soils
- Organic streaking in sandy soils
- Listed on hydric soils list
- Listed on National hydric soils list

Remarks: 10 YR 5/3 at 25.4 cm (10 inches), Meets hydric criteria due to duration of ponding, A few soft masses, Mottles

Wetland Determination:

- Hydrophytic vegetation present? X yes no
- Wetland Hydrology Present? X yes no
- Hydric Soils Present? X yes no

- Is this a wetland? X yes no

FUNCTIONS

Site: 7

HGM Classification: Depressional

X Flood Storage.

X Water Quality Enhancement:

X Bio-geochemical Functions:

 Other : Remarks

Wildlife:

 Fish Habitat Remarks:

X Amphibian/Reptile: Remarks: Lack of fish predators enhances reproduction and survival.

Species:
Marbled Salamander
Mole Salamander
Spotted Salamander

X Bird Habitat:

Species:
Yellow-breasted Chat
Red-eyed Vireo
*Tufted Titmouse
*Wood Thrush
Indigo Bunting
Common Yellowthroat
Field Sparrow
Song Sparrow
(Will get both edge and forest species here)

*Species observed or heard

X Mammal Habitat:

Species:
*White-tailed Deer
*Raccoon
small mammals

*Species or sign (tracks) observed

 * Other: Remarks: Two bald eagles (adult male and juvenile) were observed in this area.

Tract 1-8

Site 8: This wetland is located in Tract 1 and is not included in the NWI. It would be classified as POWHb. It is located south of site 3 and west of the power line. See attached map for location.

Approximate size: 2 hectares (5 acres)

Vegetation: (* indicates dominate vegetation)

overstory - No live trees in the overstory.

shrub - * *Cephalanthus occidentalis* OBL * *Acer rubrum* FAC
 * *Salix nigra* OBL * *Diospyros virginiana* FAC

Herbs - * *Lycopus* sp. OBL * *Diodea virginiana* FACW

Percent dominates FAC or wetter: 100% (5/5)

Remarks: This is a beaver pond with standing dead timber.

Hydrology:

Primary Indicators:

Inundated
 Saturated in upper 12"
 Water marks
 Sediment deposits
 Drainage patterns

Secondary Indicators (2 required):

Oxidized root channels in upper 12"
 Water-stained leaves
 Local soil survey data
 FAC-Neutral test
 Other (Explain in remarks)

Remarks:

Soils:

Hydric Soil Indicators:

| | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic epipedon | <input type="checkbox"/> High organic content in surface layer of sandy soils |
| <input type="checkbox"/> Sulfidic odor | <input type="checkbox"/> Organic streaking in sandy soils |
| <input type="checkbox"/> Aquic moisture regime | <input type="checkbox"/> Listed on hydric soils list |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> Listed on National hydric soils list |
| <input checked="" type="checkbox"/> Gleyed or low-chroma colors | |
| <input checked="" type="checkbox"/> Other (Explain in remarks) | |

Remarks: 10 YR 5/1 at 25.4 cm (10 inches), Mottles

Wetland Determination:

| | | |
|---------------------------------|---|-----------------------------|
| Hydrophytic vegetation present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Wetland Hydrology Present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Hydric Soils Present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Is this a wetland? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |

FUNCTIONS

Site: 8

HGM Classification: Depressional

X Flood Storage.

X Water Quality Enhancement:

X Bio-geochemical Functions:

 Other : Remarks

Wildlife:

X Fish Habitat Remarks:

X Amphibian/Reptile: Remarks: Primarily frogs

Species:
Marbled Salamander
Spotted Salamander
Green Frog
Bullfrog
Spring Peepers

X Bird Habitat:

Species:
*Great Blue Heron
Green Heron
Common Yellowthroat
*Woodpeckers (snags present)

*Species observed or heard

X Mammal Habitat:

Species:
*Beaver
*White-tailed deer
Muskrat
Mink
*Raccoon

*Species or sign (tracks) observed

* Other: Remarks: May get Prothonotary Warblers in this area.
There is a Great Blue Heron rookery here.

Tract 1-9

Site 9: This wetland is located in Tract 1 and is not included in the NWI. It would be classified as PFO1A. It is located adjacent (North) to the access road to the fields. See attached map for location.

Approximate size: 1.1 hectares (2.8 acres)

Vegetation: (* indicates dominate vegetation)

overstory - * *Liquidambar styraciflua* FAC+
* *Acer rubrum* FAC

shrub - No shrub layer.

Herbs - * *Lycopus* sp. OBL * *Boehemeria cylindrica* FACW+
Fraxinus pennsylvanica FACW *Rubus* sp. _____
Eupatorium perfoliatum FACW * *Microstegium vimineum* _____

Percent dominates FAC or wetter: 80% (4/5)

Remarks: Overstory is a mixture of immature and mature sawtimber. Very little vegetation present in understory.

Hydrology:

Primary Indicators:

___ Inundated
___ Saturated in upper 12"
X Water marks
___ Sediment deposits
___ Drainage patterns

Secondary Indicators (2 required):

___ Oxidized root channels in upper 12"
X Water-stained leaves
___ Local soil survey data
___ FAC-Neutral test
___ Other (Explain in remarks)

Remarks:

Soils:

Hydric Soil Indicators:

___ Histosol
___ Histic epipedon
___ Sulfidic odor
___ Aquic moisture regime
___ Reducing conditions
X Gleyed or low-chroma colors
___ Other (Explain in remarks)

___ Concretions
___ High organic content in surface layer of sandy soils
___ Organic streaking in sandy soils
___ Listed on hydric soils list
___ Listed on National hydric soils list

Remarks: Iron deposit on surface. 10YR 6/1 25.4 cm (10 inches)

Wetland Determination:

Hydrophytic vegetation present? X yes ___ no
Wetland Hydrology Present? X yes ___ no
Hydric Soils Present? X yes ___ no
Is this a wetland? X yes ___ no

FUNCTIONS

Site: 9

HGM Classification: Depressional

X Flood Storage.

X Water Quality Enhancement:

X Bio-geochemical Functions:

 Other : Remarks

Wildlife:

 Fish Habitat Remarks:

X Amphibian/Reptile: Remarks: Lack of fish predators enhances reproduction and survival.

Species:
Mole Salamander
Spotted Salamander
Marbled Salamander
Red-spotted Newt

X Bird Habitat:

Species:
Carolina Wren
Red-eyed Vireo
Common Yellowthroat
Indigo Bunting
Carolina Chickadee

*Species observed or heard

X Mammal Habitat:

Species:
*White-tailed Deer
*Raccoon
small mammals

*Species or sign (tracks) observed

 * Other: Remarks: Two bald eagles (adult male and juvenile) were observed in this area.

Tract 1-10

Site 10: This wetland is located in Tract 1 and is not included in the NWI. It would be classified as PEM1C. It is located NE of site 9, west of the powerline. See attached map for location.

Approximate size: .2 hectares (.5 acre)

Vegetation: (* indicates dominate vegetation)

overstory - No overstory present.

shrub - * *Salix nigra* OBL *Acer rubrum* FAC

Herbs - *Polygonum* sp. _____ * *Xanthium* sp. FAC * *Sorghum halepense* FACU
* *Cyperus* sp. FAC * *Eleocharis obtusa* OBL
Alisma sp. OBL *Juncus effusus* FAC+
Mimulus sp. OBL * *Diodea virginiana* FACW

Percent dominates FAC or wetter: 83% (5/6)

Remarks: Old pond that has silted in. Dominated by herbaceous vegetation.

Hydrology:

Primary Indicators: Secondary Indicators (2 required):
___ Inundated ___ Oxidized root channels in upper 12"
___ Saturated in upper 12" ___ Water-stained leaves
X Water marks ___ Local soil survey data
___ Sediment deposits ___ FAC-Neutral test
___ Drainage patterns X Other (Explain in remarks)

Remarks: Adventitious roots (*Salix nigra*).

Soils:

Hydric Soil Indicators:
___ Histosol ___ Concretions
___ Histic epipedon ___ High organic content in surface layer of
___ Sulfidic odor ___ sandy soils
___ Aquic moisture regime ___ Organic streaking in sandy soils
___ Reducing conditions ___ Listed on hydric soils list
X Gleyed or low-chroma colors ___ Listed on National hydric soils list
___ Other (Explain in remarks)

Remarks: 10 YR 5/1 at 25.4 cm (10 inches)

Wetland Determination:

Hydrophytic vegetation present? X yes ___ no
Wetland Hydrology Present? X yes ___ no
Hydric Soils Present? X yes ___ no
Is this a wetland? X yes ___ no

FUNCTIONS

Site: 10

HGM Classification: Depressional

 Flood Storage.

 X Water Quality Enhancement:

 X Bio-geochemical Functions:

 Other : Remarks

Wildlife:

 Fish Habitat Remarks:

 X Amphibian/Reptile: Remarks:

Species:
Mole Salamander
Spotted Salamander
Marbled Salamander
Chorus Frog
Leopard Frog
Green Frog

 X Bird Habitat:

Species:
Common Yellowthroat
Field Sparrow
Yellow-breasted Chat
Indigo Bunting
Song Sparrow

*Species sighted or heard.

 X Mammal Habitat:

Species:
White-tailed Deer
Raccoon

*Species or sign (tracks) observed.

 Other: Remarks:

Tract 1-11

Site 11: This wetland is located in Tract 1 and is not included in the NWI. It would be classified as PF01A. It is located adjacent to and south of the road leading to the Fire Training Center. See attached map for location.

Approximate size: 1 hectare (2.5 acres)

Vegetation: (* indicates dominate vegetation)

overstory - * *Quercus phellos* FACW- * *Q. nigra* FAC * *Acer rubrum* FAC
Liquidambar styraciflua FAC+ *Oxydendrum arboreum* FACU
Fagus grandifolia FACU *Nyssa sylvatica* FAC
Diospyros virginiana FAC *Liriodendron tulipifera* FAC+

shrub - * *L. styraciflua* FAC+ *N. sylvatica* FAC
* *A. rubrum* FAC *Vaccinium* sp.

Herbs - * *Rhododendron viscosum* FACW+ * *A. rubrum* FAC
* *L. styraciflua* FAC+ *Carex* sp. FACW
* *Chasmanthium* sp. FACW *Smilax rotundifolia* FAC
* *Saururus cernuus* OBL *Vaccinium* sp.

Percent dominates FAC or wetter: 100% (10/10)

Remarks: Overstory dominated by immature sawtimber.

Hydrology:

| | |
|------------------------------------|--|
| Primary Indicators: | Secondary Indicators (2 required): |
| <u> </u> Inundated | <u> X</u> Oxidized root channels in upper 12" |
| <u> </u> Saturated in upper 12" | <u> X</u> Water-stained leaves |
| <u> </u> Water marks | <u> </u> Local soil survey data |
| <u> </u> Sediment deposits | <u> </u> FAC-Neutral test |
| <u> </u> Drainage patterns | <u> </u> Other (Explain in remarks) |

Remarks:

Soils:

Hydric Soil Indicators:

| | |
|--|--|
| <u> </u> Histosol | <u> </u> Concretions |
| <u> </u> Histic epipedon | <u> </u> High organic content in surface layer of sandy soils |
| <u> </u> Sulfidic odor | <u> </u> Organic streaking in sandy soils |
| <u> </u> Aquic moisture regime | <u> </u> Listed on hydric soils list |
| <u> </u> Reducing conditions | <u> </u> Listed on National hydric soils list |
| <u> X</u> Gleyed or low-chroma colors | <u> </u> Other (Explain in remarks) |
| <u> </u> Other (Explain in remarks) | |

Remarks: 10YR 6/1 at 25.4 cm (10 inches)

Wetland Determination:

| | | |
|---------------------------------|----------------|----------------|
| Hydrophytic vegetation present? | <u> X</u> yes | <u> </u> no |
| Wetland Hydrology Present? | <u> X</u> yes | <u> </u> no |
| Hydric Soils Present? | <u> X</u> yes | <u> </u> no |
| Is this a wetland? | <u> X</u> yes | <u> </u> no |

FUNCTIONS

Site: 11

HGM Classification: Depressional (drainage)

X Flood Storage.

X Water Quality Enhancement:

 Bio-geochemical Functions:

 Other : Remarks

Wildlife:

 Fish Habitat Remarks:

X Amphibian/Reptile: Remarks:

Species:
Spotted Salamander
Marbled Salamander

X Bird Habitat:

Species:
Tufted Titmouse
Wood Thrush
Red-eyed Vireo
Yellow-rumped Warbler

*Species sighted or heard.

X Mammal Habitat:

Species:
*White-tailed Deer
Eastern Wild Turkey
Raccoon
small mammals

*Species or sign (tracks) observed.

 Other: Remarks:

Tract 1-12

Site 12: This wetland is located in Tract 1 and is not included in the NWI. It would be classified as PSSIC. It is located on the edge of the powerline just behind the NW corner of the Fire Training Center. See attached map for location.

Approximate size: .1 hectare (.25 acre)

Vegetation: (* indicates dominate vegetation)

overstory - * *Liquidambar styraciflua* FAC+ * *Quercus nigra* FAC

shrub - * *Acer rubrum* FAC * *L. styraciflua* FAC
* *Salix nigra* OBL * *Platinus occidentalis* FACW-

Herbs - * *Juncus effusus* FACW * *Impatiens capensis* FACW
* *Quercus phellos* FACW- * *Solidago* sp. FACU
* *Agromonia* sp. FACU

Percent dominates FAC or wetter: 82% (9/11)

Remarks: Shrubs dominate this area.

Hydrology:

| | |
|---|---|
| Primary Indicators: | Secondary Indicators (2 required): |
| <input type="checkbox"/> Inundated | <input checked="" type="checkbox"/> Oxidized root channels in upper 12" |
| <input type="checkbox"/> Saturated in upper 12" | <input type="checkbox"/> Water-stained leaves |
| <input type="checkbox"/> Water marks | <input type="checkbox"/> Local soil survey data |
| <input type="checkbox"/> Sediment deposits | <input checked="" type="checkbox"/> FAC-Neutral test |
| <input type="checkbox"/> Drainage patterns | <input type="checkbox"/> Other (Explain in remarks) |

Remarks: FAC-Neutral test: 5/7 = 71%

Soils:

Hydric Soil Indicators:

| | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic epipedon | <input type="checkbox"/> High organic content in surface layer of sandy soils |
| <input type="checkbox"/> Sulfidic odor | <input type="checkbox"/> Organic streaking in sandy soils |
| <input type="checkbox"/> Aquic moisture regime | <input type="checkbox"/> Listed on hydric soils list |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> Listed on National hydric soils list |
| <input checked="" type="checkbox"/> Gleyed or low-chroma colors | |
| <input checked="" type="checkbox"/> Other (Explain in remarks) | |

Remarks: 10 YR 5/2 at 25.4 cm (10 inches), Mottles

Wetland Determination:

| | | |
|---------------------------------|---|-----------------------------|
| Hydrophytic vegetation present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Wetland Hydrology Present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Hydric Soils Present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Is this a wetland? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |

FUNCTIONS

Site: 12

HGM Classification: Depressional

 Flood Storage.

 X Water Quality Enhancement:

 X Bio-geochemical Functions:

 Other : Remarks

Wildlife:

 Fish Habitat Remarks:

 Amphibian/Reptile:

 X Bird Habitat:

Species:
Yellow-breasted Chat
Indigo Bunting
Song Sparrow
Field Sparrow
Common Yellowthroat
(other shrub species)

*Species sighted or heard.

 Other: Remarks:

 X Mammal Habitat:

Species:
White-tailed Deer
small mammals

*Species or sign (tracks) observed.

Tract 1-13

Site 13: This wetland is located in Tract 1 and is not included in the NWI. It would be classified as PFOIA. It is adjacent to site 8 (the beaver pond). However its functions are different. See attached map for location.

Approximate size: .1 hectare (.25 acre)

Vegetation: (* indicates dominate vegetation)

overstory - * *Liquidambar styraciflua* FAC+

shrub - * *Acer rubrum* FAC * *Quercus phellos* FACW
Ulmus alata FACU+

Herbs - * *Campsis radicans* FAC * *Impatiens capensis* FACW
* *Boehemeria cylindrica* FACW+ * *Microstegium vimineum* ___
* *Lycopus* sp. OBL

Percent dominates FAC or wetter: 88% 7/8

Remarks: Dense regeneration. (15-20 years old).

Hydrology:

Primary Indicators:

___ Inundated
X Saturated in upper 12"
___ Water marks
___ Sediment deposits
___ Drainage patterns

Secondary Indicators (2 required):

X Oxidized root channels in upper 12"
___ Water-stained leaves
___ Local soil survey data
___ FAC-Neutral test
___ Other (Explain in remarks)

Remarks:

Soils:

Hydric Soil Indicators:

___ Histosol
___ Histic epipedon
___ Sulfidic odor
___ Aquic moisture regime
___ Reducing conditions
X Gleyed or low-chroma colors
___ Other (Explain in remarks)

___ Concretions
___ High organic content in surface layer of sandy soils
___ Organic streaking in sandy soils
___ Listed on hydric soils list
___ Listed on National hydric soils list

Remarks: 10YR 5/1 at 25.4 cm (10 inches)

Wetland Determination:

Hydrophytic vegetation present? X yes ___ no
Wetland Hydrology Present? X yes ___ no
Hydric Soils Present? X yes ___ no
Is this a wetland? X yes ___ no

FUNCTIONS

Site: 13

HGM Classification: Depressional

X Flood Storage.

X Water Quality Enhancement:

X Bio-geochemical Functions:

 Other : Remarks

Wildlife:

 Fish Habitat Remarks:

X Amphibian/Reptile: Remarks: Lack of fish predators enhances reproduction and survival.

Species:

Mole Salamander
Spotted Salamander
Marbled Salamander

X Bird Habitat:

Species:

Wood Thrush
Red-eyed Vireo
Tufted Titmouse
Carolina Wren

*Species sighted or heard.

X Mammal Habitat:

Species:

*White-tailed Deer
*Raccoon

*Species or sign (tracks) observed.

 Other: Remarks:

Tract 1-14

Site 14: This wetland is located in Tract 1 and is not included in the NWI. It would be classified as PFOIA. See attached map for location.

Approximate size: .4 hectares (.5 acre)

Vegetation: (* indicates dominate vegetation)

overstory - * *Acer rubrum* FAC * *Quercus nigra* FAC

shrub - * *A. rubrum* FAC * *Nyssa sylvatica* FAC

Herbs - * *Osmunda regalis* OBL * *Arisaema* sp. FAC
* *O. cinnamomea* OBL
* *Woodwardia* sp. OBL

Percent dominates FAC or wetter: 100% 8/8

Remarks: This is an uneven-aged stand of timber with a well-developed midstory.

Hydrology:

Primary Indicators:

 Inundated
X Saturated in upper 12"
 Water marks
 Sediment deposits
 Drainage patterns

Secondary Indicators (2 required):

 X Oxidized root channels in upper 12"
 Water-stained leaves
 Local soil survey data
 FAC-Neutral test
 Other (Explain in remarks)

Remarks:

Soils:

Hydric Soil Indicators:

| | |
|---------------------------------------|---|
| <u> </u> Histosol | <u> </u> Concretions |
| <u> </u> Histic epipedon | <u> </u> High organic content in surface layer of sandy soils |
| <u> </u> Sulfidic odor | <u> </u> Organic streaking in sandy soils |
| <u> </u> Aquic moisture regime | <u> </u> Listed on hydric soils list |
| <u> </u> Reducing conditions | <u> </u> Listed on National hydric soils list |
| <u>X</u> Gleyed or low-chroma colors | <u> </u> Other (Explain in remarks) |
| <u> </u> Other (Explain in remarks) | |

Remarks: 10YR 6/2 at 25.4 cm (10 inches)

Wetland Determination:

| | | |
|---------------------------------|--------------|---------------|
| Hydrophytic vegetation present? | <u>X</u> yes | <u> </u> no |
| Wetland Hydrology Present? | <u>X</u> yes | <u> </u> no |
| Hydric Soils Present? | <u>X</u> yes | <u> </u> no |
| Is this a wetland? | <u>X</u> yes | <u> </u> no |

FUNCTIONS

Site: 14

HGM Classification: Slope

X Flood Storage. Remarks: Minor due to small size.

X Water Quality Enhancement:

X Bio-geochemical Functions:

 Other : Remarks:

Wildlife:

 Fish Habitat Remarks:

X Amphibian/Reptile: Remarks: Lack of fish predators enhances reproduction and survival.

Species:
Zig-zag Salamander
Slimy Salamander

X Bird Habitat:

Species:
Wood Thrush
Red-eyed Vireo
Tufted Titmouse
Song Sparrow

*Species sighted or heard.

X Mammal Habitat:

Species:
*White-tailed Deer
*Raccoon
small mammals

*Species or sign (tracks) observed.

 Other: Remarks:

Tract 2-15

Site 15: This wetland is located in Tract 3 and is classified in the NWI as POWHh. See attached map for location.

Approximate size: .3 hectares (.75 acre)

Vegetation: (* indicates dominate vegetation)

overstory - * *Salix nigra* OBL *Acer negundo* FACW
 * *A. rubrum* FAC

shrub - * *Diospyros virginiana* FAC * *Fraxinus pennsylvanica* FACW
 * *Quercus nigra* FAC

Herbs - * *Campsis radicans* FAC * *Bohemeria cylindrica* FACW+
 * *Liquidambar styraciflua* FAC+

Percent dominates FAC or wetter: 100% (7/7)

Remarks: An old pond with fringe vegetation.

Hydrology:

| | |
|---|---|
| Primary Indicators: | Secondary Indicators (2 required): |
| <input checked="" type="checkbox"/> Inundated | <input checked="" type="checkbox"/> Oxidized root channels in upper 12" |
| <input type="checkbox"/> Saturated in upper 12" | <input type="checkbox"/> Water-stained leaves |
| <input type="checkbox"/> Water marks | <input type="checkbox"/> Local soil survey data |
| <input type="checkbox"/> Sediment deposits | <input type="checkbox"/> FAC-Neutral test |
| <input type="checkbox"/> Drainage patterns | <input type="checkbox"/> Other (Explain in remarks) |

Remarks:

Soils:

Hydric Soil Indicators:

| | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic epipedon | <input type="checkbox"/> High organic content in surface layer of sandy soils |
| <input type="checkbox"/> Sulfidic odor | <input type="checkbox"/> Organic streaking in sandy soils |
| <input type="checkbox"/> Aquic moisture regime | <input type="checkbox"/> Listed on hydric soils list |
| <input type="checkbox"/> Reducing conditions | <input type="checkbox"/> Listed on National hydric soils list |
| <input checked="" type="checkbox"/> Gleyed or low-chroma colors | |
| <input checked="" type="checkbox"/> Other (Explain in remarks) | |

Remarks: 10 YR 4/2 at 25.4 cm (10 inches), Mottles

Wetland Determination:

| | | |
|---------------------------------|---|-----------------------------|
| Hydrophytic vegetation present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Wetland Hydrology Present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Hydric Soils Present? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |
| Is this a wetland? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no |

FUNCTIONS

Site: 15

HGM Classification: Depressional

X Flood Storage.

X Water Quality Enhancement:

X Bio-geochemical Functions:

 Other : Remarks

Wildlife:

X Fish Habitat Remarks:

X Amphibian/Reptile: Remarks: Salamander eggs present

Species:
Bullfrog
Green Frog
Leopard Frog
Spring Peeper
Chorus Frog
Spotted Salamander

X Bird Habitat:

Species:
Common Yellowthroat
Carolina Chickadee
Tufted Titmouse
Northern Cardinal

*Species sighted or heard.

X Mammal Habitat:

Species:
*White-tailed Deer
*Muskrat
*Raccoon
Mink

*Species or sign (tracks) observed.

 Other: Remarks:

Tract 2-16

Site 16: This wetland is located in Tract 3 and is classified in the NWI as POWHh. See attached map for location.

Approximate size: .12 hectares (.33 acre)

Vegetation: (* indicates dominate vegetation)

- | | | |
|-------------|---|---|
| overstory - | * <i>Fraxinus pennsylvanica</i> <u>FACW</u> | * <i>Quercus nigra</i> <u>FAC</u> |
| | * <i>Acer negundo</i> <u>FACW</u> | * <i>Liquidambar styraciflua</i> <u>FAC+</u> |
| shrub - | * <i>A. negundo</i> <u>FACW</u> | |
| | * <i>F. pennsylvanica</i> <u>FACW</u> | |
| Herbs - | * <i>Campsis radicans</i> <u>FAC</u> | <i>Rhus radicans</i> <u>FAC</u> |
| | * <i>Polygonum persicaria</i> <u>FACW</u> | <i>Carex</i> sp. _____ |
| | * <i>Bohemeria cylindrica</i> <u>FACW+</u> | <i>Lonicera japonica</i> _____ |
| | * <i>Lemna</i> sp. <u>OBL</u> | <i>Parthenocissus quinquefolia</i> <u>FAC</u> |

Percent dominates FAC or wetter: 100% (10/10)

Remarks: An old pond with fringe vegetation.

Hydrology:

- | | |
|---|---|
| Primary Indicators: | Secondary Indicators (2 required): |
| <input checked="" type="checkbox"/> Inundated | ___ Oxidized root channels in upper 12" |
| ___ Saturated in upper 12" | ___ Water-stained leaves |
| ___ Water marks | ___ Local soil survey data |
| ___ Sediment deposits | ___ FAC-Neutral test |
| ___ Drainage patterns | ___ Other (Explain in remarks) |

Remarks:

Soils:

Hydric Soil Indicators:

- | | |
|---|--|
| ___ Histosol | <input checked="" type="checkbox"/> Concretions |
| ___ Histic epipedon | ___ High organic content in surface layer of sandy soils |
| ___ Sulfidic odor | ___ Organic streaking in sandy soils |
| ___ Aquic moisture regime | ___ Listed on hydric soils list |
| ___ Reducing conditions | ___ Listed on National hydric soils list |
| <input checked="" type="checkbox"/> Gleyed or low-chroma colors | |
| <input checked="" type="checkbox"/> Other (Explain in remarks) | |

Remarks: 10 YR 4/2 at 25.4 cm (10 inches), Mottles

Wetland Determination:

- | | | |
|---------------------------------|---|--------|
| Hydrophytic vegetation present? | <input checked="" type="checkbox"/> yes | ___ no |
| Wetland Hydrology Present? | <input checked="" type="checkbox"/> yes | ___ no |
| Hydric Soils Present? | <input checked="" type="checkbox"/> yes | ___ no |
| Is this a wetland? | <input checked="" type="checkbox"/> yes | ___ no |

FUNCTIONS

Site: 16

HGM Classification: Depressional

X Flood Storage.

X Water Quality Enhancement:

X Bio-geochemical Functions:

 Other : Remarks

Wildlife:

X Fish Habitat Remarks:

X Amphibian/Reptile: Remarks: Salamander eggs present

Species:
Bullfrog
Green Frog
Leopard Frog
Spring Peeper
Chorus Frog
Spotted Salamander

X Bird Habitat:

Species:
Common Yellowthroat
Yellow-rumped Warbler
Blue Jay
Carolina Chickadee

*Species sighted or heard.

X Mammal Habitat:

Species:
*White-tailed Deer
Muskrat
*Raccoon
Mink

*Species or sign (tracks) observed.

 Other: Remarks: