

VICKSBURG NMP FIELD FORMS

NATURESERVE VEGETATION CLASSIFICATION

County: Warren Park: NATR VICK Plot Code: V3 State: AL MS TN Location org: NPSProvisional community name Liriodendron tulipifera - Liquidambar styracifluaClassified community name Liriodendron tulipifera - Quercus spp. forestClassifier CWN Date 9/8/2004 NVCELCODE T220Survey date: 9/2/2004 Surveyors initials: CWN & ASTagged tree is a Sweetgum of 25 cm dbh with tag # 30 Center of 20 x 40 m plot is at a bearing of 140 degrees and 4 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

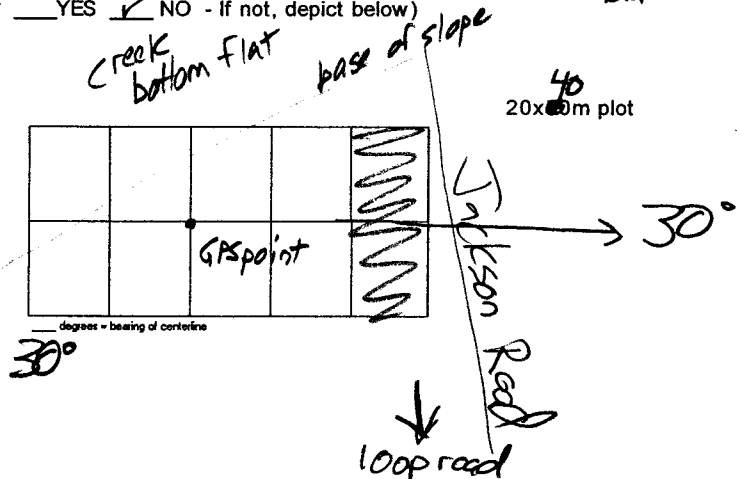
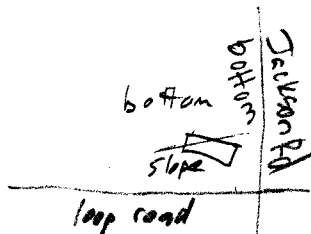
On North Loop Rd. East side stop just south of bridge over modern Jackson Rd. Plot is to west as trail goes down the hill. Careful of trifoliate orange which has large spines!

Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 40 m plot.)

Plot representativeness - Is the surrounding area all the same? YES ☒ NO - If not, depict below

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 95-98

Description of pictures (N,E,S & W from GPS point at middle of plot):

Select one: UTM OR lat/long (If lat/long, then values are 32,36251° N -090.84081° W)WGS 84GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD27 UTM Zone: 15 18GPS Unit ID 3 GPS file name V3 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 11 Coordinate accuracy 2.9 # sats 3

County: WALTON Park: NATR (VICK) Plot Code: V3 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>18°</u> % — Flat 0° 0 % — Gentle 0-5° 1-9 % — Moderate 6-14° 10-25 % ✓ — Somewhat steep 15-25° 26-49 % — Steep 27-45° 50-100 % — Very steep 45-69° 101-275 % — Abrupt 70-100° 276-300 % — Overhanging/steep 100° > 300 %	Measured Aspect <u>300°</u> (N=0°) — Flat — SE 113-157° — Variable — S 158-202° — N 338-22° — SW 203-247° — NE 23-67° — W 248-292° — E 68-112° ✓ — NW 293-337°	Topographic Position — Interfluvium (ridge/summit/crest) — Toeslope — High Slope (upper/convex slope) — Midslope — Low level (terrace) ✓ — Low slope (lower/footslope) — Channel bed Cowardin System ✓ — Upland — Palustrine — Estuarine — Lacustrine — Riverine
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Landform (check most applicable)

— Alluvial flat
 — Alluvial terrace
 — Bald
 — Bank
 — Bar
 — Bench
 — Bottomlands
 — Cliff

— Cove
 — Depression
 — Draw
 — Exogenous dome
 — Floodplain
 — Gap
 — Gorge
 — Hillslope bedrock outcrop
 — Midslope
 — Nose slope

— Ridge
 — Ridgetop bedrock outcrop
 — Saddle
 — Seep
 — Toe slope
 ✓ — Slope
 — Streambed
 — Streamhead
 — Periglacial boulderfield
 — Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

✓ — Not a wetland (Upland: XERIC : DRY - MESIC (MESIC))
 — Intermittently flooded — Permanently flooded — Semipermanently flooded — Temporarily Flooded (e.g. floodplains)
 — Seasonally Flooded (e.g. seasonal ponds) — Saturated (e.g. bogs, perennial seeps) — Unknown — Irregularly flooded — Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Part of plot is bottoms, SW corner,

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Shrub layer dominated by trifoliate orange, site may have been cleared in the past, Jackson Rd. has a fair amount of traffic (a thru road).

Soil Texture:

— Sand — Peat ✓ — Silt loam — Muck
 — Sandy loam — Loam — Clay loam — Clay

Drainage:

— Rapidly drained ✓ — Moderately well drained — Somewhat poorly drained
 — Well drained — Poorly drained — Very poorly drained

Ground cover

— % Bedrock
 — % Large rocks (cobbles, boulders > 10cm) 85 % Litter, duff
 — % Small rocks (gravel, 0.2-10 cm) 3 % Wood (> 1 cm)
 — % Sand (0.1-2 mm) 12 % Water
 — % Bare soil

Leaf type:

✓ — Broad-leaved
 — Needle-leaved
 — Microphyllous
 — Graminoid
 — Broad-leaved herbaceous
 — Pteridophyte
 — Extremely xeromorphic
 — Mixed

Leaf phenology (dominant stratum)

— Evergreen
 ✓ — Cold-deciduous
 — Drought-deciduous
 — Mixed evergreen-cold-deciduous
 — Mixed evergreen drought deciduous
 — Herb - Annual
 — Herb - Perennial

Physiognomic Class

✓ — Forest (closed tree canopy)
 — Woodland (open tree canopy)
 — Shrubland
 — Dwarf Shrubland
 — Herbaceous (less than 25% woody layers)
 — Nonvascular
 — Sparse Vegetation

Natural and Anthropogenic Disturbance

— logging — fire — Hydrologic
 — erosion — trails/roads — Agriculture
 — grazing/browsing — wind/ice damage — Old Growth
 — pine bark beetle — Exotic plants — Fire Suppression
 — dogwood anthr — ORV

Disturbance and animal use comments:

Panicum trifoliatum - Trifoliate orange

County: Warren Park: NATR VICK Plot Code: V3 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Liriodendron tulipifera - 40%, Liquidambar styr - 30%	.5-1m	10%
Understory T3	15-20m	40%	Liriodendron tulipifera - 10%, Liquidambar styr - 10%	1-2m	20%
Tall shrub S1	2-5m	90%	Ligustrum sinense - 40%, Poncirus trifoliata - 40%	2-5m	30%
Short shrub S2	.5-1m	20%	Ligustrum sinense - 5%	5-10m	40%
Herbaceous	-	20%	Arundinaria gigantea - 10%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana		30%	Toxicodendron radicans - 20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?
7	5								7	Liri tul		
7	5	4							67	Liqu styr		
	4								4	Sass alb		
		5	3						5	Ulm rub		
		7	4						7	Liqu sin		
		7	3						7	Ponc tri		
						4			4	Part qui		
		4	2						4	Hydr que		
		4							4	Moru rub		
	4								4	Acer bar		
						6			6	Toxi rad		
		4	2						4	Quer mue		
						2			2	Viti rot		
					2				2	Aris dra		
		3	2						3	Cary cor		
					2				2	Amph bra		
						2			2	Bign cap		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.1

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County: Warren Park: NATR VICK Plot Code: 13 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
				2					2	Geum car		
				2					2	Elep car		
										Leer vir		
				2					2	Ager coe = CONOCOE		
			2	2					3	Ham bon		
				2					2	Celt lae		
				3					3	Smal uve		
				1					1	Care che		
				1					1	Jugl nig		
		2							2	Cere car		
	4		2						4	Acer neg		
				1					1	Peri fru		
				2					2	Polygonum virginianum		
						2			2	Lonit jap		
				5					5	Arau glg		
				2					2	Cryp can		
				1					1	Ranu rel		
				2					2	Aspl pla		
			2						2	Axar arb		
				2					2	Phyto ame		
				2					2	Eupa ser		
	3								3	Juni vir		
				2					2	Aris ser		
				2					2	Pile pum		
				1					1	Aste lat		
						2			2	Smil tam		
				2					2	Opl set		
				2					2	Cyrt For 1 Cyrtomum fortunei		
				2					2	Matelea sp.		
			2						2	Quer nig		
				2					2	Botr vir		
				1					1	Poun ser		
				1					1	Care oxy		
				2					2	Jamb can		
						2			2	Bers sca		

Cover classes	
1.	trace
2.	0.1-1%
3.	1-2%
4.	2-5%
5.	5-10%
6.	10-25%
7.	25-50%
8.	50-75%
9.	75-95%
10.	>95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub
(> 1m; to 5m)
S2 Short Shrub
(< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

3

3

Corn dru
Community Survey

Page 4

2

2

Rubu tri

County: Warren Park: NATR VICK Plot Code: V3A State: AL MS TN Location org: NPSProvisional community name Liriodendron tulipifera - Liquidambar styracifluaClassified community name Liriodendron tulipifera - Quercus spp. Forest
Classifier CWN Date 9/2/2004 NVC CODE 7220Survey date: 9/2/2004 Surveyors initials: CWN & ASTagged tree is a Quercus muhlenbergii 39 cm dbh with tag # 31 Center of 20 x 50m plot is at a bearing of 310 degrees and 1.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

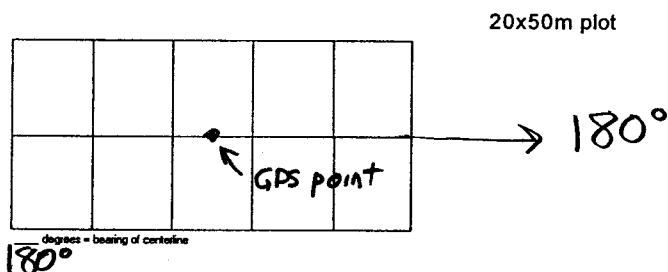
North Loop Road, East side just N. of Bridge over
Jackson Rd. Park just before road turns to west
Plot is on west facing slope just west of road,
a little to south of parked car. Notice prominence
of giant cane

Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? YES ☒ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 99-102 Description of pictures (N, E, S & W from GPS point at middle of plot) :Select one: ~~UTM~~ OR Lat/long (If lat/long, then values are 32.36386° N -090.84075° W
WGS 84)GPS Techniques/Equipment Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD 27 UTM Zone: 15 16GPS Unit ID 3 GPS file name V3A (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 339 Coordinate accuracy 9 m / ft DOP 2.8 # sats 4

County: Warren Park: NATR (VICK) Plot Code: V3A State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>28</u> ° <u> </u> % ☐ Flat 0 ° 0 % ☐ Gentle 0-5 ° 1-9 % ☐ Moderate 6-14 ° 10-25 % ☐ Somewhat steep 15-25 ° 26-49 % ☒ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ Overhanging/shielded >100 ° >300 %	Measured Aspect <u>270</u> ° (N=0 °) ☐ Flat <u> </u> SE 113-157 ° ☐ Variable <u> </u> S 158-202 ° ☐ N 338-22 ° <u> </u> SW 203-247 ° ☐ NE 23-67 ° ☒ W 248-292 ° ☐ E 68-112 ° <u> </u> NW 293-337 °	Topographic Position ☐ Interfluvium (Ridge/summit/crest) <u> </u> Toeslope ☐ High Slope (upper/convex slope) ☒ Midslope <u> </u> Low level (terrace) ☐ Lowslope (lower/footslope) <u> </u> Channel bed Cowardin System ☒ Upland <u> </u> Palustrine ☐ Estuarine <u> </u> Lacustrine <u> </u> Riverine
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Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☐ Bottomlands ☐ Cliff ☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope ☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☒ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine
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Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC : (MESIC))
☐ Intermittently flooded Permanently flooded Semipermanently flooded Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) Saturated (e.g. bogs, perennial seeps) Unknown Irregularly flooded Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Steep slope between loop road (upslope) and ravine (down slope). Trifoliate orange is competing with giant cane ~~for~~ in understory.

Soil Texture: ☐ Sand <u> </u> Peat <u> </u> ☒ Silt loam <u> </u> Muck ☐ Sandy loam <u> </u> Loam <u> </u> Clay loam <u> </u> Clay	Drainage: ☐ Rapidly drained <u> </u> Moderately well drained <u> </u> Somewhat poorly drained ☒ Well drained <u> </u> Poorly drained <u> </u> Very poorly drained
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Ground cover ☐ % Bedrock ☐ % Large rocks (cobbles, boulders >10cm) ☐ % Small rocks (gravel, 0.2-10 cm) ☐ % Sand (0.1-2 mm)	☐ % Litter, duff ☐ % Wood (> 1 cm) ☐ % Water ☒ % Bare soil	☐ % Other <u> </u>
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Leaf type: ☒ Broad-leaved ☐ Needle-leaved ☐ Microphyllous ☐ Graminoid ☐ Broad-leaved herbaceous ☐ Pteridophyte ☐ Extremely xeromorphic ☐ Mixed	Leaf phenology (dominant stratum) ☒ Evergreen ☐ Cold-deciduous ☐ Drought-deciduous ☐ Mixed evergreen-cold-deciduous ☐ Mixed evergreen drought deciduous ☐ Herb - Annual ☐ Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) ☐ Woodland (open tree canopy) ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous (less than 25% woody layers) ☐ Nonvascular ☐ Sparse Vegetation
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Natural and Anthropogenic Disturbance ☐ logging <u> </u> fire ☐ erosion <u> </u> trails/roads ☐ grazing/browsing <u> </u> wind/ice damage ☐ pine bark beetle <u> </u> exotic plants ☐ dogwood anthr <u> </u> ORV	☐ Hydrologic ☐ Agriculture ☐ Old Growth ☐ Fire Suppression	Disturbance and animal use comments:
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NPS GULF COAST PROJECT: Plot Sampling Form

VICK, Z

Page 3

County: Warren Park: NATR VICK Plot Code: V3A State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Liquidambar styraciflua - 40%, Liquidambar tul - 40%	.5-1m	10%
Understory T3	15-20m	60%	Liquidambar styraciflua - 20%, Quercus muhlenbergii - 20%	1-2m	20%
Tall shrub S1	2-5m	40%	Poncirus trifoliata - 30%	2-5m	30%
Short shrub S2	.5-1m	20%	Poncirus trifoliata - 5%, Tilia americana - 5%	5-10m	40%
Herbaceous	-	70%	Arundinaria gigantea - 70%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	30%	Toxicodendron radicans - 20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?
7	6		3						7	Liqu sty		
7	4		1						7	Liri tul		
5	6	3	2						6	Quer mue		
		3	2						3	Carp car		
				8					8	Arum alg		
		7	4						7	Ponc tri		
							3		3	Smil tam		
			3				6		6	Toxi rad		
							4		4	Loni jap		
	4		2						4	Quer nig		
							5		5	Berc sca		
				2					2	Aspl ph		
				2					2	Cyba vir		
				2					2	Aris dra		
				1					1	Aster sp.		
							3		3	Binn cap		
		5	3						5	Ligi sin		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.2

Page 4

County: Warren Park: NATR VICK Plot Code: V3A State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
			3	1					3	Acer bar		
			3	2					3	Lind ben		
		3	3	2					4	Celt lae		
					1				1	Asim tri		
			2						2	Cary ill		
					1				1	Pass lut		
		4	6	4					6	Till ame var. car		
					2				2	Sani can		
			4	3					4	Corn dr		
		4	3	2					4	Acer neg		
			2						2	Samb can		
			1						1	Side lyc		
					2				2	Botr vir		
									1	Robi pse		
									1	Prun ser		
			3	3					4	Vibu rub		
					2				2	Cyst pro		
			4	2					4	Prun car		
			3						3	Hydr que		
			2						2	Ostr vir		
					2				2	Matelea sp.		
					1				1	Care oxy		
					2				2	thel kun		
					2				2	Viol wal		
					2				2	Aris tri		
			3						3	Cary cor		
							2		2	Smil rot		
				2					2	Ulm alba		
		4	2						4	Moru rub		

Cover classes	
1.	trace
2.	0.1-1%
3.	1-2%
4.	2-5%
5.	5-10%
6.	10-25%
7.	25-50%
8.	50-75%
9.	75-95%
10.	>95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub
(>1m; to 5m)
S2 Short Shrub
(< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.3

Page 1

County: Warren Park: NATR VICK Plot Code: V4 State: AL MS TN Location org: NPSProvisional community name Quercus pagoda - Quercus nigra Forest

Classified community name

Classifier CWN

Date

NVC ELCODE

9109Survey date: 9/3/2004 Surveyors initials: CWN 8ASTagged tree is a Basswood of ~9 cm dbh with tag # 38 Center of 20 x 50m plot is at a bearing of 260 degrees and 3 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

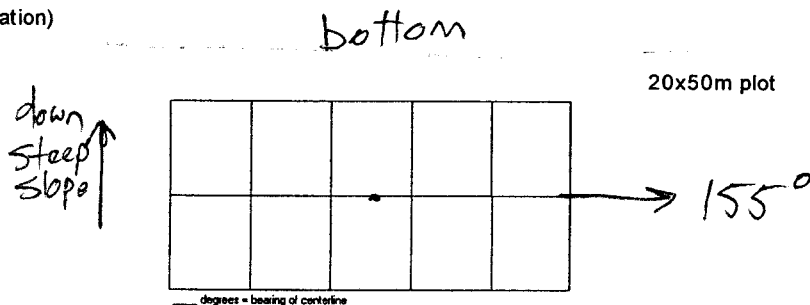
On East side of N. loop Road (West part) south
of Modern Jackson Rd.
Stop at granite gray ~~no~~ black monument "Mississippi
Company C 1st Light Artillery Capt. W T Ratliff
Forney's Division" From here go at 100°
over ridge and 1/2 way down other side to tag tree.

Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? YES ☒ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

ridge Bahia grassPIC # 132-135

Description of pictures (N,E,S & W from GPS point at middle of plot):

Select one: UTM OR Lat/long (If lat/long, then values are 32.36002 N -090.84476 W)WGS 84GPS Techniques/Equipment: Garmin III+Garmin VDatum (pick one) NAD 83 OR NAD 27UTM Zone: 15 16GPS Unit ID 3

GPS file name

V4

(standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 140 Coordinate accuracy 10 m / ft DOP 2.6 # sats 3

Community Survey

Page 1

County: Warren Park: NATR VICK Plot Code: V4 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>37</u> ° <u> </u> % — Flat 0 ° 0 % — Gentle 0-5 ° 1-9 % — Moderate 6-14 ° 10-25 % — Somewhat steep 15-25 ° 26-49 % — Steep 27-45 ° 50-100 % — Very steep 45-69 ° 101-275 % — Abrupt 70-100 ° 276-300 % — Overhanging/shielded >100 ° >300 %	Measured Aspect <u>65</u> ° (N=0 °) — Flat — SE 113-157 ° — Variable — S 158-202 ° — N 338-22 ° — SW 203-247 ° — NE 23-67 ° — W 248-292 ° — E 68-112 ° — NW 293-337 °	Topographic Position — Interfluvium (Ridge/summit/crest) — Toeslope — High Slope (upper/convex slope) — Midslope — Low level (terrace) — Low slope (lower/footslope) — Channel bed Cowardin System — Upland — Palustrine — Estuarine — Lacustrine — Riverine
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Landform (check most applicable) — Alluvial flat — Alluvial terrace — Bald — Bank — Bar — Bench — Bottomlands — Cliff — Cove — Depression — Draw — Exogenous dome — Floodplain — Gap — Gorge — Hillslope bedrock outcrop — Midslope — Nose slope — Ridge — Ridgetop bedrock outcrop — Saddle — Seep — Toe slope — Slope — Streambed — Streamhead — Periglacial boulderfield — Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

~~#~~ Steep slope water must run off fast. Leaf cover of soil important to prevent erosion.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Steep slope has ~~some~~ Lonicera japonica ground cover,

Soil Texture: — Sand — Peat ☒ Silt loam — Muck — Sandy loam — Loam — Clay loam — Clay	Drainage: ☒ Rapidly drained — Moderately well drained — Somewhat poorly drained ☒ Well drained — Poorly drained — Very poorly drained
--	--

Ground cover — % Bedrock — % Large rocks (cobbles, boulders > 10cm) — % Small rocks (gravel, 0.2-10 cm) — % Sand (0.1-2 mm)	<u>85</u> % Litter, duff <u>2</u> % Wood (> 1 cm) — % Water <u>13</u> % Bare soil	— % Other _____
--	--	-----------------

Leaf type: ☒ Broad-leaved — Needle-leaved — Microphyllous — Graminoid — Broad-leaved herbaceous — Pteridophyte — Extremely xeromorphic — Mixed	Leaf phenology (dominant stratum) — Evergreen ☒ Cold-deciduous — Drought-deciduous — Mixed evergreen-cold-deciduous — Mixed evergreen drought deciduous — Herb - Annual — Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) — Woodland (open tree canopy) — Shrubland — Dwarf Shrubland — Herbaceous (less than 25% woody layers) — Nonvascular — Sparse Vegetation
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Natural and Anthropogenic Disturbance — Logging — fire ☒ Erosion — trails/roads — grazing/browsing — wind/ice damage — pine bark beetle — Exotic plants — dogwood anthr — ORV	— Hydrologic — Agriculture — Old Growth — Fire Suppression	Disturbance and animal use comments:
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NPS GULF COAST PROJECT: Plot Sampling Form

VICK.3

Page 3

County: Warren Park: NATR VICK Plot Code: 14 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-30m	90%	Quercus pagoda - 20%, Quercus nigra - 30%, Carya illinoensis - 30%	.5-1m	10%
Understory T3	15-20m	30%	Various - total =	1-2m	20%
Tall shrub S1	2-5m	70%	Ulmus rubra - 20%, Tilia americana par. lat. - 10%, Celtis laevigata - 10%, Coccocarpus dummicollis - 10%	2-5m	30%
Short shrub S2	.5-1m	60%	Toxicodendron radicans - 40%	5-10m	40%
Herbaceous	-	20%	herb layer relatively sparse; total = 20%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	40%	Lonicera japonica - 20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	1								1	Quer pag			1 trace
	4	3	3						7	Quer nig			2 0.1-1%
	4	3	3						5	Liqu sty			3 1-2%
		6	3						6	Ulmus rub			4 2-5%
	4	4							5	Acer neg			5 5-10%
										Celt lae			6 10-25%
					2				2	Cyrt Forl			7 25-50%
		3	2						3	Cyrtomium fortunei			8 50-75%
			2						2	Liquid			9 75-95%
	4	4	2						5	Quer muc			10 >95%
		3	2						3	Pawn car			
			7				5		7	Toxi rad			
							2		2	Cocc car			
					2				2	Eupa ser			
					2				2	Aspl pla			
		3	1						3	Frax car			
	4	3	3						5	Ulmus ala			

VICK.3

County: Warren Park: NATR VICK Plot Code: V4 State: AL MS TN Location org: NPS

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
			2						2	Robi pse		
		4	5	2					6	Tili ame var. car		
			2	2					3	Pan ser		
					2				2	Lact flo		
					1				1	Pass lut		
			2						2	Asim tri		
			3	2					3	Cary cor		
					1				1	Phyt ame		
			3						3	Ponc tri		
							5		5	Part avi		
			5	4					6	Celt lae		
			2	1					2	Meru rub		
			2						2	Cerc can		
			5	2					5	Corn dru		
					3				3	Arum glg		
			3	1					3	Side rye		
					2				2	Opli set		
				1					1	Evan ame		
					1				1	Cyst pro		
7			2	2					7	Cary ill		
				2					2	Nand dom		
							1		1	Smil bon		
					2				2	Jani can		
							3		3	Ampe arb		
					2				2	Care che		
							6		6	Koni jap		
			3							Juni vtr		

Cover classes	
1.	trace
2.	0.1-1%
3.	1-2%
4.	2-5%
5.	5-10%
6.	10-25%
7.	25-50%
8.	50-75%
9.	75-95%
10.	>95%

E Epiphytes

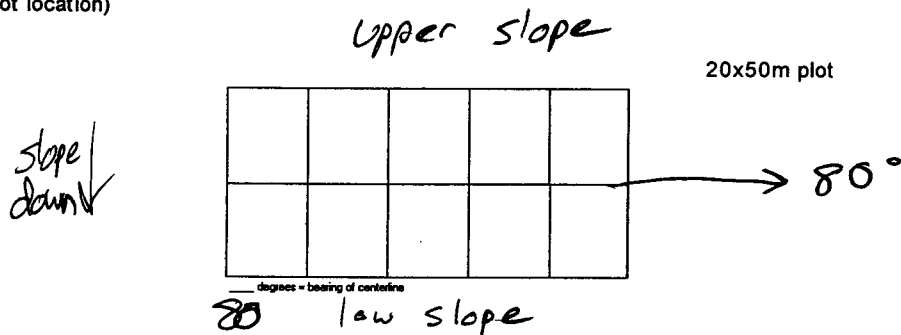
Community Survey
Page 4

County: Warren Park: NATR VICK Plot Code: V5 State: AL MS TN Location org: NPSProvisional community name Liriodendron tulipifera - Liquidambar styracifluaClassified community name Liriodendron tulipifera - Quercus spp. ForestClassifier CWN Date 9/8/2004 NVC EL CODE 7220Survey date: 9/1/2004 Surveyors initials: CWN & ASTagged tree is a Black cherry of 35 cm dbh with tag # 26. Center of 20 x 50m plot is at a bearing of 330° degrees and 3 m from tree.Directions to tag tree (including any notes on best access route, and mile marker): North Loop Rd. past Minnesota Monument and big S turn with cedars. start at Blue sign "US Union Trench Quinby's - JE Smith's Division" on West side of road. From blue sign ~200 m West at 280° to plot center.Time taken to walk to plot: 15 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES ☒ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

creek bottom

PIC # 73-76 Description of pictures (N, E & W from GPS point at middle of plot):Camera readjusted to fine image quality (had been standard).Select one: ~~UTM~~ OR Lat/long (If lat/long, then values are 32.35285° N - 090.84575° W)UGS 84GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD 27 UTM Zone: 15 ~~46~~GPS Unit ID 3 GPS file name V5 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 2560 Coordinate accuracy 11 m / ft DOP 2.5 # sats 4

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.4

Page 2

County: Warren Park: NATR (VICK) Plot Code: V5 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>36</u> ° <u> </u> % — Flat 0° 0% — Gentle 0-5° 1-9% — Moderate 6-14° 10-25% — Somewhat steep 15-25° 26-49% ☒ Steep 27-45° 50-100% — Very steep 45-69° 101-275% — Abrupt 70-100° 276-300% — ovrrhg/shltd >100° >300%	Measured Aspect <u>155</u> ° (N=0°) — Flat ☒ SE 113-157° — Variable ☒ S 158-202° — N 338-22° — SW 203-247° — NE 23-67° — W 248-292° — E 68-112° — NW 293-337°	Topographic Position — Interfluv (Ridge/summit/crest) — Toeslope — High Slope (upper/convex slope) ☒ Midslope — Low level (terrace) — Lowslope (lower/footslope) — Channel bed Cowardin System ☒ Upland — Palustrine — Estuarine — Lacustrine — Riverine
---	---	---

Landform (check most applicable) — Alluvial flat — Alluvial terrace — Bald — Bank — Bar — Bench — Bottomlands — Cliff	— Cove — Depression — Draw — Exogenous dome — Floodplain — Gap — Gorge — Hillslope bedrock outcrop — Midslope — Nose slope	— Ridge — Ridgetop bedrock outcrop — Saddle — Seep — Toe slope ☒ Slope — Streambed — Streamhead — Periglacial boulderfield — Ravine
--	---	--

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC (MESIC)
 — Intermittently flooded — Permanently flooded — Semipermanently flooded — Temporarily Flooded (e.g. floodplains)
 — Seasonally Flooded (e.g. seasonal ponds) — Saturated (e.g. bogs, perennial seeps) — Unknown — Irregularly flooded — Irreglrly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

~~steep~~ steep slope with some big trees and exotic plants
 may have been cleared during civil war. Gullies where
 soil has eroded are present (one at plot center). Chinese
 Privet is most abundant shrub.

Soil Texture: — Sand — Peat ☒ Silt loam — Muck — Sandy loam — Loam — Clay loam — Clay	Drainage: — Rapidly drained — Moderately well drained — Somewhat poorly drained ☒ Well drained — Poorly drained — Very poorly drained
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Ground cover ___ % Bedrock ___ % Large rocks (cobbles, boulders >10cm) ___ % Small rocks (gravel, 0.2-10 cm) ___ % Sand (0.1-2 mm)	<u>80</u> % Litter, duff <u>5</u> % Wood (> 1 cm) ___ % Water <u>15</u> % Bare soil	___ % Other
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Leaf type: ☒ Broad-leaved — Needle-leaved — Microphyllous — Graminoid — Broad-leaved herbaceous — Pteridophyte — Extremely xeromorphic — Mixed	Leaf phenology (dominant stratum) — Evergreen ☒ Cold-deciduous — Drought-deciduous — Mixed evergreen-cold-deciduous — Mixed evergreen drought deciduous — Herb - Annual — Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) — Woodland (open tree canopy) — Shrubland — Dwarf Shrubland — Herbaceous (less than 25% woody layers) — Nonvascular — Sparse Vegetation
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Natural and Anthropogenic Disturbance — logging — fire — Hydrologic — erosion — trails/roads — Agriculture — grazing/browsing — wind/ice damage — Old Growth — pine bark beetle ☒ Exotic plants — Fire Suppression — dogwood anthr ORV	Disturbance and animal use comments: <i>Ligustrum sinense</i> <i>Lonicera japonica</i> <i>Pteris multifida</i> <i>Magnolia</i> looking shrub with serrate leaves
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NPS GULF COAST PROJECT: Plot Sampling Form

VICK.4

Page 3

County: Warren Park: NATR VICK Plot Code: V5 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-30m	80%	Liriodendron tulipifera - 20%, Quercus nigra - 10%, Liquidambar styraciflua - 20%	.5-1m	10%
Understory T3	15-20m	50%	Acer negundo - 20%, Liriodendron tulipifera - 10%	1-2m	20%
Tall shrub S1	2-5m	70%	Ligustrum sinense - 60%	2-5m	30%
Short shrub S2	.5-1m	30%	Ligustrum sinense - 10%	5-10m	40%
Herbaceous	-	20%	Athyrium filix - femina - 5%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	20%	Lonicera japonica - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3: Subcanopy | S1: Tall Shrub (> 1m; to 5m) | S2: Short Shrub (< 1m) | H: Herbaceous | N: Nonvascular | V: Vines (lianas) | E: Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?
	6	5							6	Liri tul		
	5		3	3					6	Querc nig		
			4	2					4	Ulmus rub		
		6	5	1					6	Acer neg		
			8	5					8	Ligustr		
							2		2	Coc car		
							3		3	Viti rot		
				4					4	Lind ben		
					2				2	Ophi set		
					2				2	Geum can		
					2				2	Aspl pla		
					2				2	Aris ara		
					2				2	Poly aer		
					2				2	Aris tri		
					2				2	Pass lut		
							5		5	Loni jap		
							4		4	Part qui		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.4

Page 4

County: Washen Park: NATR VICK Plot Code: V5 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
					2				2	Cace oxy		
							3		3	Blgn cap		
		4	3						4	Ostr vir		
					2				2	Pter mul		
					2				2	Dich bos		
		4							4	Acer bar		
					2				2	Aris ser		
			2						2	Corn dru		
	4								4	Pinu tal		
	4		3	2					4	Pavn ser		
					4				4	Athy fil		
							2		2	Smil tam		
		4	3	3					4	Moru rub		
					2				2	Clem vir		
					2				2	Eupa rug		
					2				2	Viol tri		
			3	2					3	Pavn car		
	4		4						5	Quermic		
					2				2	Sani can		
			2	2					3	Euon ame		
			2	1					2	Nand dom		
			2						2	Fean car		
					1				1	Cyrt for		
	6		4						6	Cyrtomium fortunei		
										Ligu sty		
				2					2	Jamb can		
					1				1	Phyto ame		
			2						2	Tili ame var. car		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub
(> 1m; to 5m)

S2 Short Shrub
(< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

County: Warren Park: NATR VICK Plot Code: VSB State: AL MS TN Location org: NPS

Provisional community name Platanus occidentalis - Liquidambar styraciflua temp flooded
 Classified community name Platanus occidentalis - Liquidambar styraciflua - (Ulmus americana) / (Crataegus viridis) Forest
 Classifier CWN Date 9/8/2004 NVC EL CODE 7335

Survey date: 9/1/2004 Surveyors initials: CWN & AS

Tagged tree is a Box elder of 19 cm dbh with tag # 27. Center of 20 x 50m plot is at a bearing of 200 degrees and 1.0 m from tree.
Tag is on east side of tree.

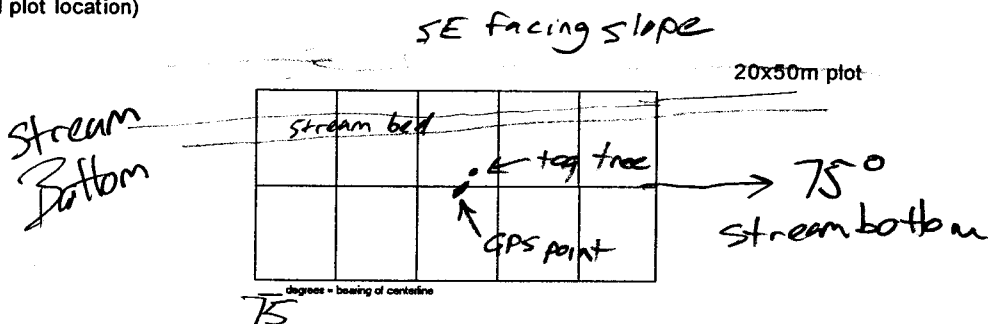
Directions to tag tree (including any notes on best access route, and mile marker): North Loop road past Minnesota Monument and big S turn with large cedars. Start at blue sign "1/3 Union trench Quinby's - JE Smith's Division" on west side of road. From Blue sign about 100 m at 285° to plot center

Time taken to walk to plot: 10 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? ☐ YES ☒ NO - If not, depict below

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 77-80

Description of pictures (N, E & W from GPS point at middle of plot):

Select one: UTM OR Lat/long (If lat/long, then values are 32.35279° N - 090.84515° W
WGS 84

GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD 27 UTM Zone: 15 To

GPS Unit ID 3 GPS file name VSB (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? ☒ Coordinate accuracy 12 m / ft DOP 3.2 # sats 4

County: Warren Park: NATR VICK Plot Code: VSB State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope _____ ° _____ % ☐ Flat 0 ° 0 % ☒ Gentle 0-5 ° 1-9% ☐ Moderate 6-14 ° 10-25% ☐ Somewhat steep 15-25 ° 26-49% ☐ Steep 27-45 ° 50-100% ☐ Very steep 45-69 ° 101-275% ☐ Abrupt 70-100 ° 276-300 ☐ ovrhng/shltrd >100 ° >300%	Measured Aspect _____ ° (N=0 °) ☒ Flat _____ SE 113-157 ° ☒ Variable _____ S 158-202 ° ☐ N 338-22 ° SW 203-247 ° ☐ NE 23-67 ° W 248-292 ° ☐ E 68-112 ° NW 293-337	Topographic Position ☐ Interfluv (Ridge/summit/crest) _____ Toeslope ☐ High Slope (upper/convex slope) _____ ☐ Midslope _____ ☐ Lowslope (lower/footslope) _____ ☒ Low level (terrace) ☐ Channel bed Cowardin System ☐ Upland _____ ☒ Palustrine _____ ☐ Estuarine _____ ☐ Lacustrine _____ ☐ Riverine _____
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Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☒ Bottomlands ☐ Cliff ☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope ☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☐ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine
--

Rock types present:

Hydrologic Regime (check only for wetlands)

☐ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded _____ Permanently flooded _____ Semipermanently flooded _____
☐ Seasonally Flooded (e.g. seasonal ponds) _____ Saturated (e.g. bogs, perennial seeps) _____
☒ Temporarily Flooded (e.g. floodplains)
☐ Unknown _____ Irregularly flooded _____ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Temp flooded

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Colluvial soil from erosion
also much Chinese Privet

Soil Texture: ☐ Sand _____ ☐ Sandy loam _____ ☐ Peat _____ ☒ Silt loam _____ ☐ Loam _____ ☐ Clay loam _____ ☐ Muck _____ ☐ Clay _____	Drainage: ☐ Rapidly drained _____ ☐ Well drained _____ ☒ Moderately well drained _____ ☒ Poorly drained _____ ☐ Somewhat poorly drained _____ ☐ Very poorly drained _____
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Ground cover ☐ % Bedrock ☐ % Large rocks (cobbles, boulders > 10cm) ☐ % Small rocks (gravel, 0.2-10 cm) ☐ % Sand (0.1-2 mm)	☒ 50 % Litter, duff ☐ % Wood (> 1 cm) ☐ % Water ☒ 30 % Bare soil	☐ % Other _____
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Leaf type: ☒ Broad-leaved ☐ Needle-leaved ☐ Microphyllous ☐ Graminoid ☐ Broad-leaved herbaceous ☐ Pteridophyte ☐ Extremely xeromorphic ☐ Mixed	Leaf phenology (dominant stratum) ☐ Evergreen ☒ Cold-deciduous ☐ Drought-deciduous ☐ Mixed evergreen-cold-deciduous ☐ Mixed evergreen drought deciduous ☐ Herb - Annual ☐ Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) ☐ Woodland (open tree canopy) ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous (less than 25% woody layers) ☐ Nonvascular ☐ Sparse Vegetation
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Natural and Anthropogenic Disturbance ☒ Logging ☒ Erosion ☐ grazing/browsing ☐ pine bark beetle ☐ dogwood anthr ☐ fire ☐ trails/roads ☒ wind/ice damage ☒ exotic plants ☐ ORV ☒ Hydrologic ☐ Agriculture ☐ Old Growth ☐ Fire Suppression	Disturbance and animal use comments:
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NPS GULF COAST PROJECT: Plot Sampling Form

VICK.5

Page 3

County: Waycross Park: NATR VICK Plot Code: VSB State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	60%	Platanus occidentalis - 30%, Liquidambar styraciflua - 30%	.5-1m	10%
Understory T3	15-20m	30%	Liquidambar styraciflua - 10%, Juglans nigra - 10%	1-2m	20%
Tall shrub S1	2-5m	90%	Ligustrum sinense - 80%	2-5m	30%
Short shrub S2	.5-1m	20%	Ligustrum sinense - 10%	5-10m	40%
Herbaceous	-	10%	Athyrium filix-femina - 5%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	20%	Toxicodendron radicans - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	7	3							7	Plat occ			1 trace
	7	3	4						7	Liqu sty			2 0.1-1%
		5							5	Jugl nig			3 1-2%
		4	5	2					6	Acer neg			4 2-5%
			9	5					9	Ligu shr			5 5-10%
				2					2	Aster tri			6 10-25%
				3			5		5	Toxi rad			7 25-50%
			2	1					2	Sida lyc			8 50-75%
		4							4	Ulmus ame			9 75-95%
				2					2	Querc nig			10 > 95%
							2		2	Lonic japo			
					3				3	Aron glg			
							2		2	Parl app			
					4				4	Athy fil			
					2				2	Leers vir			
					2				2	Baob cyl			
					2				2	Sani can			

SPECIES COVER/ABUNDANCE CLASS BY STRATUM												
T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
								2	2	Smil tam		
									1	Aris dga		
									2	Opli set		
									2	Cyst pro		
									2	Lind ben		
									2	Matheea sp.		
									2	Poly acr		
									2	Samb can		
			4						4	Ponc tri		
									1	Aspl pla		

Cover classes	
1.	trace
2.	0.1-1%
3.	1-2%
4.	2-5%
5.	5-10%
6.	10-25%
7.	25-50%
8.	50-75%
9.	75-95%
10.	> 95%

E Epiphytes

Community Survey
Page 4

County: Warren Park: NATR (VICK) Plot Code: V7 State: AL (MS) TN Location org: NPSProvisional community name Platanus occidentalis / Acer negundoClassified community name Platanus occidentalis - Liquidambar styraciflua - (Ulmus americana) /Classifier CWNDate 9/1/2004NVC ELCODE 7335(Crataegus viridis) ForestSurvey date: 9/1/2004 Surveyors initials: CWN & ASTagged tree is a Ulmus rubra of 48 cm dbh with tag # 22 Center of 20 x 50m plot is at a bearing of 0° degrees and 4 m from tree. Tag on N side of tag tree.

Directions to tag tree (including any notes on best access route, and mile marker):

On north loop road park when first in sight of Minnesota Monument (like Washington Monument) Obelisk. go west into woods from hill and down into bottom. Bottom of ravineTime taken to walk to plot: 8 minutes

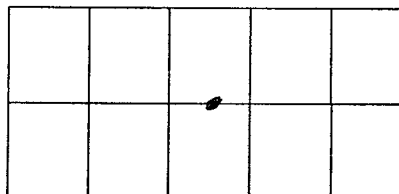
PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES ☒ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

South Facing slope (steep)

20x50m plot

Ravine bottom widens here.

degrees = bearing of centerline

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

North Facing slope (steep)PIC # 53-56

Description of pictures (N, E & W from GPS point at middle of plot):

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 32.34845° N - 090.89686° W
WGS 84)GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD27 UTM Zone: 15 ~~16~~GPS Unit ID _____ GPS file name V7 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 105 Coordinate accuracy 11 m / ft DOP 2.7 # sats 4

County: Waffen Park: NATR VICK Plot Code: V7 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>4</u> ° <u> </u> % ☐ Flat 0 ° 0 % ☒ Gentle 0-5 ° 1-9 % ☐ Moderate 6-14 ° 10-25 % ☐ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ Overhanging/shielded >100 ° >300 %	Measured Aspect <u>260</u> ° (N=0 °) ☐ Flat ☐ SE 113-157 ° ☐ Variable ☐ S 158-202 ° ☐ N 338-22 ° ☐ SW 203-247 ° ☐ NE 23-67 ° ☒ W 248-292 ° ☐ E 68-112 ° ☐ NW 293-337	Topographic Position ☐ Interfluvium (Ridge/summit/crest) ☐ Toeslope ☐ High Slope (upper/convex slope) ☐ Midslope ☒ Low level (terrace) ☐ Lowslope (lower/footslope) ☐ Channel bed Cowardin System ☐ Upland ☒ Palustrine ☐ Estuarine ☐ Lacustrine ☐ Riverine
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Landform (check most applicable)

☐ Alluvial flat
☐ Alluvial terrace
☐ Bald
☐ Bank
☐ Bar
☐ Bench
☐ Bottomlands
☐ Cliff

☐ Cove
☐ Depression
☐ Draw
☐ Exogenous dome
☐ Floodplain
☐ Gap
☐ Gorge
☐ Hillslope bedrock outcrop
☐ Midslope
☐ Nose slope

☐ Ridge
☐ Ridgetop bedrock outcrop
☐ Saddle
☐ Seep
☐ Toe slope
☐ Slope
☐ Streambed
☐ Streamhead
☒ Periglacial boulderfield
☒ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

☐ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☒ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Gentle sheet flow likely after heavy rainfall, based on slope. Some ponding is likely. Colluvium at base of slope; soils classified as loess, thus highly susceptible to erosion.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Cleared during Civil War; allowed to revegetate. Based on young age of timber, site may have been open 50-60 years ago.

Soil Texture:

☐ Sand ☐ Peat ☒ Silt loam ☐ Muck
☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay

Drainage:

☐ Rapidly drained ☒ Moderately well drained ☐ Somewhat poorly drained
☐ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

☐ % Bedrock
☐ % Large rocks (cobbles, boulders > 10cm)
☐ % Small rocks (gravel, 0.2-10 cm)
☐ % Sand (0.1-2 mm)

70 % Litter, duff
10 % Wood (> 1 cm)
 % Water
20 % Bare soil

☐ % Other

Leaf type:

☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☐ Evergreen
☒ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☐ logging ☐ fire ☐ Hydrologic
☒ erosion ☐ trails/roads ☐ Agriculture
☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth
☐ pine bark beetle ☒ exotic plants ☐ Fire Suppression
☐ dogwood anthr ☐ ORV

Disturbance and animal use comments:

Severe infestation of Chinese privet. Abnormal levels of colluvium deposited - an artifact of past land use practices.

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.6

Page 3

County: Warren Park: NATR (VICK) Plot Code: V7 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Platanus occidentalis - 20%, Ulmus rubra - 10%, Quercus nigra - 10%, Liquidambar styraciflua - 10%	.5-1m	10%
Understory T3	15-20m	60%	Acer negundo - 40%	1-2m	20%
Tall shrub S1	2-5m	80%	Ligustrum sinense - 70%	2-5m	30%
Short shrub S2	.5-1m	20%	Ligustrum sinense - 10%	5-10m	40%
Herbaceous	-	10%	Arundinaria gigantea - 5%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	10%	Vitis cinerea - 5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	6								6	Plat occ			1 trace
	5		2	2					5	Quer nig			2 0.1-1%
		7	4	3					7	Acer neg			3 1-2%
			8	5					8	Ligu sin			4 2-5%
							2		2	Dart qui			5 5-10%
					2				2	Athy fil			6 10-25%
				2					2	Euon ame			7 25-50%
	5	5	3						6	Ulmus rub			8 50-75%
					2				2	Cyst pro			9 75-95%
					2				2	Polygonum virginianum			10 >95%
					2				2	Leed vir			
					2				2	Baeh cyl			
					2				2	Cryp can			
					1				1	Verb occ			
					2				2	Geum can			
				2					2	Lind ben			
					2				2	Opli set			

VICK.6

County: Warren Park: NATR (VICK) Plot Code: 17 State: AL (MS) TN Location org: NPS

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
					2				2	Eupa ser		
					2				2	Care dig		
					2				2	Aris frt		
							1		1	Bign cup		
5	5			1					1	Sadi can		
4				2					6	Ligu sty		
									4	Celt lae		
							3		3	Berc sca		
					2				2	Viol aff		
					3				3	Arum gin		
							3		3	Cocc Eup		
					1				1	Lact Flo		
					1				1	Phyta ame		
				1					1	Sidelyc		
							4		4	Viti cin		
4									4	Moru rub		
				1					1	Jamb can		

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

E Epiphytes

Page 4

County: Warren Park: NATR VICK Plot Code: V7A State: AL MS TN Location org: NPS

Provisional community name Carya glabra - Ulmus rubra - Celtis laevigata

Classified community name Quercus pagoda - Quercus nigra Forest

Classifier CWN Date 5/18/2005 NVC EL CODE CEGL004109

Survey date: 9/1/2004 Surveyors initials: CWN & AS

Tagged tree is a Acer rubrum of 20 cm dbh with tag # 23 Center of 20 x 50m plot is at a bearing of 310° degrees and 2.0 m from tree.

Tag is on N. side of tree

Directions to tag tree (including any notes on best access route, and mile marker): On north loop road, park south of Minnesota Monument (when first in sight of it).

Plot is on south facing slope across creek to west. Use GPS.

Time taken to walk to plot: 20 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES ☒ NO - If not, depict below)

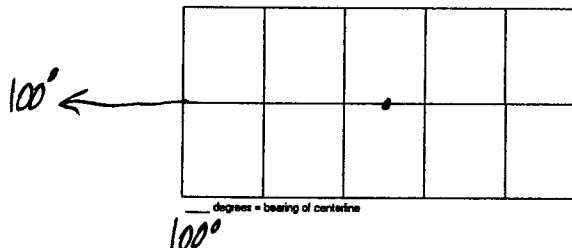
PLOT LOCATION (Below show general plot location)

lower ravine

ravine bottom

upper ravine

20x50m plot



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 57-60

Description of pictures (N, E, S & W from GPS point at middle of plot):

Select one: UTM OR Lat/long (If lat/long, then values are 32.34798 N 090.84830 W)

GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD 27 UTM Zone: 15 16

GPS Unit ID 3 GPS file name V7A (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? _____ Coordinate accuracy 9 m / ft DOP 2.3 # sats 5

County: Warren Park: NATR VICK Plot Code: V7A State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>27</u> ° <u> </u> % ☐ Flat 0 ° 0 % ☐ Gentle 0-5 ° 1-9 % ☐ Moderate 6-14 ° 10-25 % ☐ Somewhat steep 15-25 ° 26-49 % ☒ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ overhng/shltd > 100 ° > 300 %	Measured Aspect <u>180</u> ° (N=0 °) ☐ Flat ☐ Variable ☒ S 158-202 ° ☐ N 338-22 ° ☐ SW 203-247 ° ☐ NE 23-67 ° ☐ W 248-292 ° ☐ E 68-112 ° ☐ NW 293-337 °	Topographic Position ☐ Interfluv (Ridge/summit/crest) ☐ Toeslope ☐ High Slope (upper/convex slope) ☒ Midslope ☐ Low level (terrace) ☐ Lowslope (lower/footslope) ☐ Channel bed Cowardin System ☒ Upland ☐ Palustrine ☐ Estuarine ☐ Lacustrine ☐ Riverine
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Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☐ Bottomlands ☐ Cliff ☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope ☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☒ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine
--

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

This ravine has evidence of considerable erosion. Soil has collected in the ravine bottom (colluvial). There are many deep gullies along the slope which make the aspect variable at a small scale. Slope is also variable

Soil Texture:

☐ Sand ☐ Peat ☒ Silt loam ☐ Muck
☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay

Drainage:

☒ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☒ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

☐ % Bedrock 86 % Litter, duff ☐ % Other
☐ % Large rocks (cobbles, boulders > 10cm) 2 % Wood (> 1 cm)
☐ % Small rocks (gravel, 0.2-10 cm) ☐ % Water
☐ % Sand (0.1-2 mm) 10 % Bare soil

Leaf type:

☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☒ Evergreen
☐ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☒ Logging ☐ fire ☐ Hydrologic
☒ erosion ☐ trails/roads ☐ Agriculture
☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth
☐ pine bark beetle ☒ Exotic plants ☐ Fire Suppression
☐ dogwood anthr ☐ ORV

Disturbance and animal use comments:

Lonicera japonica
Ligustrum sinense

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.7

Page 3

County: Waller Park: NATR VICK Plot Code: V7A State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Carya glabra - 20%, Ulmus rubra - 20%, Celtis laevigata - 20%	.5-1m	10%
Understory T3	1-20m	50%	Ulmus rubra - 40%, Ligustrum styraciflua - 10%, Celtis laevigata - 10%	1-2m	20%
Tall shrub S1	2-5m	70%	Ligustrum styraciflua - 40%	2-5m	30%
Short shrub S2	.5-1m	40%	Toxicodendron radicans - 20%	5-10m	40%
Herbaceous	-	20%	Herb layer rather sparse; total = 20%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana		40%	Vitis cinerea - 20%, Lonicera japonica - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	5			2					5	Over pang			1 trace
	5			2					5	Over nig			2 0.1-1%
	6		5	3					6	Cary gla			3 1-2%
	6	5	3	2					6	Ulmus rubra			4 2-5%
		8	2	3					5	Ligu sty			5 5-10%
		3							3	Corn flo			6 10-25%
							3		3	Viti rot			7 25-50%
							5		5	Loni jap			8 50-75%
				5			4		6	Toxi rad			9 75-95%
			7	4					7	Ligu sin			10 > 95%
					2				2	Rubus arg			
			4						4	Ilex de			
			3	2					3	Prun car			
					2				2	Sani can			
							6		6	Viti cin			
	6	5	5						6	Celt lae			
					2				2	Poly acr			

Community Survey

Page 3

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.7

Page 4

County: Warren Park: NATR VICK Plot Code: V7A State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
					2				2	Cyst pro		
							2		2	Smil rot		
	5	5	2	2					6	Pawn ser		
			4	3					4	Cerc can		
							2		2	Smil tam		
			1						1	Cary ill		
					2				2	Aspl pla		
			4	2					24	Frax car		
			4	2					4	Ulmv ala		
			3	1					3	Side lyc		
							4		4	Bign cap		
					2				2	Geom can		
							2		2	Smil gla		
					2				2	Aste lat		
			4	3					4	Cary cor		
					1				1	Lact flo		
					2				2	Care dig		
	4								4	Acer rub		
			3	2					3	Corn dru		
					2				2	Desm per		
							2		2	Cela sca		
					2				2	Opil set		
					2				2	Carex sp.		
			3						3	Ligu jap		
				1					1	Frax ame		
				2					2	Nand dom		
					1				1	Clem vir		
	5								5	Moss rub		
				2					2	Call ame		
					2				2	Desm can		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub
(> 1m; to 5m)
S2 Short Shrub
(< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot Sampling Form

County: Warren Park: NATR VICK Plot Code: V7B State: AL MS TN Location org: NPS

Provisional community name Solidago canadensis

Classified community name Lolium (grandinaceum, pratense) Herbaceous Vegetation
 Classifier CWN Date 9/14/2004 NVC ELCODE 4048

Survey date: 9/1/2004 Surveyors initials: AS & CWN

Tagged tree is a No tag tree of cm dbh with tag # . Center of 20 x 50m plot is at a bearing of degrees and m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

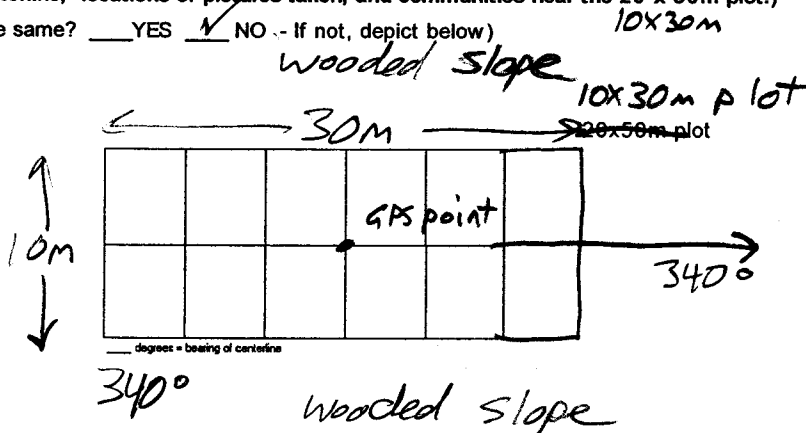
Park south of Minnesota Monument (when first in sight of it). Go west across creek and up again to clearing on ridge. Use GPS to find.

Time taken to walk to plot: 25 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? YES ☒ NO - If not, depict below

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 61-64 Description of pictures (N,E,S & W from GPS point at middle of plot):

Select one: UTM OR Lat/long (If lat/long, then values are 32.34844° N - 090.84877° W)

GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD 27 UTM Zone: 15 18

GPS Unit ID 3 GPS file name V7B (standard = First letter of park + # of plot (N04 or V04))

Field UTM X m E Y m N Elevation m / ft

Averaging performed (at least 120 observations)? 8 Coordinate accuracy 8 m / ft DOP 2.2 # sats 5

County: Warren Park: NATR VICK Plot Code: V7B State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope _____ ° _____ % ☒ Flat 0 ° 0 % ☒ Gentle 0-5 ° 1-9 % ☐ Moderate 6-14 ° 10-25 % ☐ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ ovrhng/shltd >100 ° >300 %	Measured Aspect <u>170</u> ° (N=0 °) ☐ Flat _____ SE 113-157 ° ☐ Variable ☒ S 158-202 ° ☐ N 338-22 ° ☐ SW 203-247 ° ☐ NE 23-67 ° ☐ W 248-292 ° ☐ E 68-112 ° ☐ NW 293-337	Topographic Position ☒ Interfluv (Ridge/summit/crest) _____ Toeslope ☐ High Slope (upper/convex slope) ☐ Midslope _____ Low level (terrace) ☐ Lowslope (lower/footslope) _____ Channel bed Cowardin System ☒ Upland _____ Palustrine ☐ Estuarine _____ Lacustrine _____ Riverine
---	--	---

Landform (check most applicable)

☐ Alluvial flat
☐ Alluvial terrace
☐ Bald
☐ Bank
☐ Bar
☐ Bench
☐ Bottomlands
☐ Cliff

☐ Cove
☐ Depression
☐ Draw
☐ Exogenous dome
☐ Floodplain
☐ Gap
☐ Gorge
☐ Hillslope bedrock outcrop
☐ Midslope
☐ Nose slope

☒ Ridge
☐ Ridgetop bedrock outcrop
☐ Saddle
☐ Seep
☐ Toe slope
☐ Slope
☐ Streambed
☐ Streamhead
☐ Periglacial boulderfield
☐ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC DRY - MESI: MESIC)
☐ Intermittently flooded _____ Permanently flooded _____ Semipermanently flooded _____ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) _____ Saturated (e.g. bogs, perennial seeps) _____ Unknown _____ Irregularly flooded _____ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Cleared — probably mowed twice a year
 Forms a narrow cleared ridge.

Soil Texture:

☐ Sand _____ Peat ☒ Silt loam _____ Muck
☐ Sandy loam _____ Loam _____ Clay loam _____ Clay

Drainage:

☒ Rapidly drained _____ Moderately well drained _____ Somewhat poorly drained
☒ Well drained _____ Poorly drained _____ Very poorly drained

Ground cover

☐ % Bedrock
☐ % Large rocks (cobbles, boulders >10cm)
☐ % Small rocks (gravel, 0.2-10 cm)
☐ % Sand (0.1-2 mm)
80 % Litter, duff
☐ % Wood (> 1 cm)
☐ % Water
20 % Bare soil
☐ % Other _____

Leaf type:

☐ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☒ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☐ Evergreen
☐ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☒ Herb - Perennial

Physiognomic Class

☐ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☒ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☐ logging _____ fire _____ Hydrologic
☐ erosion _____ trails/roads _____ Agriculture
☐ grazing/browsing _____ wind/ice damage _____ Old Growth
☐ pine bark beetle _____ exotic plants _____ Fire Suppression
☐ dogwood anthr _____ ORV

Disturbance and animal use comments:

fire ants
 mowing

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.8

Page 3

County: Wascen Park: NATR VICK Plot Code: V7B State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous	—	100%	<i>Solidago canadensis</i> - 80%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	40%	<i>Ampelopsis arborea</i> - 20%, <i>Toxicodendron radicans</i> - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
							6		6	<i>Ampel urb</i>			1 trace
				5					5	<i>Pass lnc</i>			2 0.1-1%
							5		5	<i>Toxi rad</i>			3 1-2%
							4		4	<i>Loni jup</i>			4 2-5%
				8						<i>Soli can</i>			5 5-10%
				2					2	<i>Cary ill</i>			6 10-25%
				5					5	<i>Elep car</i>			7 25-50%
				1					1	<i>Ulm u ala</i>			8 50-75%
				2					2	<i>Aste pil</i>			9 75-95%
				3					3	<i>Care che</i>			10 > 95%
				2					2	<i>Trid fla</i>			
				2					2	<i>Andr vir</i>			
			2						2	<i>Quer nig</i>			
				5					5	<i>Pass not</i>			
				3					3	<i>Rest aru</i>			
				2					2	<i>Vern gly</i>			
			1	1					2	<i>Rubi sp</i>			

Community Survey

Page 3

Desm per
Sola car

Cyp glo - herb - 1 (cover)

County: Warren Park: NATR VICK Plot Code: V7C State: AL MS TN Location org: NPS

Provisional community name _____

Classified community name _____

Classifier CWNDate 9/1/2004NVC ELCODE 4700Survey date: 9/1/2004Surveyors initials: CWN & ASTagged tree is a No tag tree of _____ cm dbh with tag # _____ Center of 20 x 50m plot is at a bearing of _____ degrees and _____ m from tree.

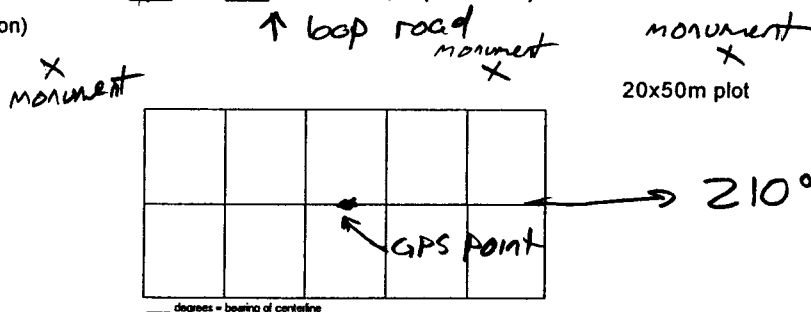
Directions to tag tree (including any notes on best access route, and mile marker):

North loop road, Park where Minnesota Monument first comes into sight (to NE) and go SW to grassy hilltop between Cannon and Small Monuments.Center of plot is 25 m S (180°) from Cannon "US 17th Battery Ohio Light ~~Artillery~~ Artillery".Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? ☒ YES ☐ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HACannon
XX
blue
signs
XPIC # 65-68

Description of pictures (N, E & W from GPS point at middle of plot): _____

Select one: UTM OR Lat/long

(If lat/long, then values are

32.34819N 090.84563

W

GPS Techniques/Equipment: Garmin III+

Garmin V

Datum (pick one) NAD 83 OR NAD 27

UTM Zone: 15 16

GPS Unit ID 3GPS file name V7C

(standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)?

Coordinate accuracy 7 m / ftDOP 1.7# sats 6

NPS GULF COAST PROJECT: Plot Sampling Form

VICK-9

Page 2

County: Warren Park: NATR VICK Plot Code: V7C State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope _____ ° _____ % ___ Flat 0 ° 0 % ☒ <u>Gentle</u> 0-5 ° 1-9 % ___ Moderate 6-14 ° 10-25 % ___ Somewhat steep 15-25 ° 26-49 % ___ Steep 27-45 ° 50-100 % ___ Very steep 45-69 ° 101-275 % ___ Abrupt 70-100 ° 276-300 % ___ ovrhng/shltd >100 ° >300 %	Measured Aspect <u>225</u> ° (N=0 °) ___ Flat SE 113-157 ° ___ Variable S 158-202 ° ___ N 338-22 ° SW 203-247 ° ___ NE 23-67 ° W 248-292 ° ___ E 68-112 ° NW 293-337 °	Topographic Position ___ Interfluv (Ridge/summit/crest) ___ Toeslope ☒ <u>High Slope</u> (upper/convex slope) ___ Low level (terrace) ___ Midslope ___ Channel bed ___ Lowslope (lower/footslope) ___ Cowardin System ☒ <u>Upland</u> ___ Palustrine ___ Estuarine ___ Lacustrine ___ Riverine
--	--	---

Landform (check most applicable) ___ Alluvial flat ___ Alluvial terrace ___ Bald ___ Bank ___ Bar ___ Bench ___ Bottomlands ___ Cliff ___ Cove ___ Depression ___ Draw ___ Exogenous dome ___ Floodplain ___ Gap ___ Gorge ___ Hillslope bedrock outcrop ___ Midslope ___ Nose slope	☒ <u>Ridge</u> ___ Ridgetop bedrock outcrop ___ Saddle ___ Seep ___ Toe slope ___ Slope ___ Streambed ___ Streamhead ___ Periglacial boulderfield ___ Ravine
---	---

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC DRY MESIC : MESIC)
 ___ Intermittently flooded ___ Permanently flooded ___ Semipermanently flooded ___ Temporarily Flooded (e.g. floodplains)
 ___ Seasonally Flooded (e.g. seasonal ponds) ___ Saturated (e.g. bogs, perennial seeps) ___ Unknown ___ Irregularly flooded ___ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

mowed Bahia grass lawn

Soil Texture: ___ Sand ___ Peat ☒ <u>Silt loam</u> ___ Muck ___ Sandy loam ___ Loam ___ Clay loam ___ Clay	Drainage: ___ Rapidly drained ___ Moderately well drained ___ Somewhat poorly drained ☒ <u>Well drained</u> ___ Poorly drained ___ Very poorly drained
---	---

Ground cover

___ % Bedrock
 ___ % Large rocks (cobbles, boulders >10cm)
 ___ % Small rocks (gravel, 0.2-10 cm)
 ___ % Sand (0.1-2 mm)
90 % Litter, duff
 ___ % Wood (> 1 cm)
 ___ % Water
10 % Bare soil
 ___ % Other

Leaf type: ___ Broad-leaved ___ Needle-leaved ___ Microphyllous ☒ <u>Graminoid</u> ___ Broad-leaved herbaceous ___ Pteridophyte ___ Extremely xeromorphic ___ Mixed	Leaf phenology (dominant stratum) ___ Evergreen ___ Cold-deciduous ___ Drought-deciduous ___ Mixed evergreen-cold-deciduous ___ Mixed evergreen drought deciduous ___ Herb - Annual ☒ <u>Herb - Perennial</u>	Physiognomic Class ___ Forest (closed tree canopy) ___ Woodland (open tree canopy) ___ Shrubland ___ Dwarf Shrubland ☒ <u>Herbaceous</u> (less than 25% woody layers) ___ Nonvascular ___ Sparse Vegetation
--	---	---

Natural and Anthropogenic Disturbance ___ logging ___ fire ___ Hydrologic ___ erosion ___ trails/roads ___ Agriculture ___ grazing/browsing ___ wind/ice damage ___ Old Growth ___ pine bark beetle ☒ <u>Exotic plants</u> ___ Fire Suppression ___ dogwood anthr ___ ORV	Disturbance and animal use comments: Bahia grass lawn
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Community Survey

Page 2

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		100%	<i>Paspalum notatum</i>	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				>50m	90%
					100%

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

[illegible]

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.10

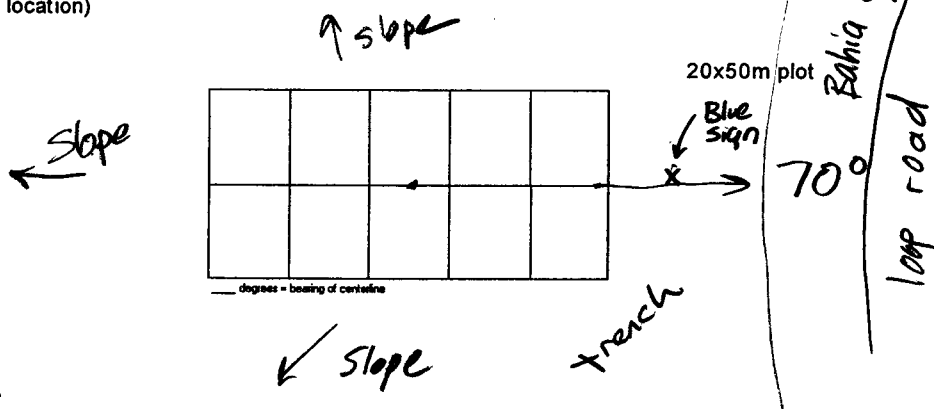
Page 1

County: Warren Park: NATR (VICK) Plot Code: V8 State: AL (MS) TN Location org: NPSProvisional community name Quercus nigra - Ulmus rubra - Quercus shumardiiClassified community name Quercus pagoda - Quercus nigra ForestClassifier CWN Date _____ NVC ELCODE CEGL004109Survey date: 9/1/2004 Surveyors initials: CWN & ASTagged tree is a Ulmus americana of 13 cm dbh with tag # 24. Center of 20 x 50m plot is at a bearing of 80° degrees and 2.0 m from tree. tag is on east side of tree.Directions to tag tree (including any notes on best access route, and mile marker): North Loop, Union Ave. past MinnesotaMonument and just past big S-turn with cedars.From blue sign "US Union Trench Quinby's - JE Smith's Division"Center of plot is 45 m at 270°Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? ☐ YES ☒ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 69-72 Description of pictures (N, E, S & W from GPS point at middle of plot): _____Select one: ~~UTM~~ OR Lat/long (If lat/long, then values are 32.35260° N 090.84444° W)GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD 27 UTM Zone: 15 16GPS Unit ID 3 GPS file name V8 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 206 Coordinate accuracy _____ m / ft DOP _____ # sats _____

Community Survey

Page 1

County: Warren Park: NATR VICK Plot Code: V8 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>8</u> ° <u> </u> % — Flat 0° 0% — Gentle 0-5° 1-9% ☒ Moderate 6-14° 10-25% — Somewhat steep 15-25° 26-49% — Steep 27-45° 50-100% — Very steep 45-69° 101-275% — Abrupt 70-100° 276-300% — ovrhng/shltrd >100° >300%	Measured Aspect <u>250</u> ° (N=0°) — Flat — SE 113-157° — Variable — S 158-202° — N 338-22° — SW 203-247° — NE 23-67° ☒ W 248-292° — E 68-112° — NW 293-337°	Topographic Position — Interfluv (Ridge/summit/crest) — Toeslope ☒ High Slope (upper/convex slope) — Midslope — Low level (terrace) — Lowslope (lower/footslope) — Channel bed Cowardin System ☒ Upland — Palustrine — Estuarine — Lacustrine — Riverine
---	---	---

Landform (check most applicable) — Alluvial flat — Alluvial terrace — Bald — Bank — Bar — Bench — Bottomlands — Cliff	— Cove — Depression — Draw — Exogenous dome — Floodplain — Gap — Gorge — Hillslope bedrock outcrop — Midslope ☒ Nose slope	— Ridge — Ridgetop bedrock outcrop — Saddle — Seep — Toe slope — Slope — Streambed — Streamhead — Periglacial boulderfield — Ravine
--	---	--

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

perhaps cleared during civil war. This site has very large trees (Pagoda oak, shumard oak, water oak). Also a very large Syderoxylon lycioides (13 cm dbh).

Soil Texture: — Sand — Peat ☒ Silt loam — Muck — Sandy loam — Loam — Clay loam — Clay	Drainage: — Rapidly drained — Moderately well drained — Somewhat poorly drained ☒ Well drained — Poorly drained — Very poorly drained
--	--

Soil cover: — % Bedrock — % Large rocks (cobbles, boulders >10cm) — % Small rocks (gravel, 0.2-10 cm) — % Sand (0.1-2 mm)	— % Litter, duff <u>2</u> % Wood (> 1 cm) — % Water — % Bare soil	— % Other _____
--	--	-----------------

Leaf type: ☒ Broad-leaved — Needle-leaved — Microphyllous — Graminoid — Broad-leaved herbaceous — Pteridophyte — Extremely xeromorphic — Mixed	Leaf phenology (dominant stratum) ☒ Evergreen — Cold-deciduous — Drought-deciduous — Mixed evergreen-cold-deciduous — Mixed evergreen drought deciduous — Herb - Annual — Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) — Woodland (open tree canopy) — Shrubland — Dwarf Shrubland — Herbaceous (less than 25% woody layers) — Nonvascular — Sparse Vegetation
---	--	--

Natural and Anthropogenic Disturbance — logging — fire — Hydrologic — erosion — trails/roads — Agriculture — grazing/browsing — wind/ice damage — Old Growth — pine bark beetle ☒ Exotic plants — Fire Suppression — dogwood anthr — ORV	Disturbance and animal use comments: Lonicera japonica is dominant low shrub along ground.
--	--

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.10

Page 3

County: Warren Park: NATR VICK Plot Code: V8 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	50%	Quercus nigra - 20%, Sassafras albidum - 10%, Ulmus rubra - 10%, Quercus shumardii - 10%	.5-1m	10%
Understory T3	15-20m	20%	Carya cordiformis - 10%, Prunus serotina - 10%	1-2m	20%
Tall shrub S1	2-5m	50%	Carya cordiformis - 20%, Ulmus rubra - 10%	2-5m	30%
Short shrub S2	.5-1m	60%	Toxicodendron radicans - 40%	5-10m	40%
Herbaceous	-	10%	herb layer sparse; total = 10%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana		40%	Lonicera japonica - 20%, Vitis cinerea - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	6			3					6	Quer nig			1 trace
	5								5	Quer sha			2 0.1-1%
		5	6						6	Cary cor			3 1-2%
	5		3	3					6	Ulm rub			4 2-5%
		5		2					5	Prun ser			5 5-10%
			2						2	Frax ame			6 10-25%
							2		2	Smil tam			7 25-50%
				7			3		7	Toxi rad			8 50-75%
							5		6	Loni jap			9 75-95%
				2					2	Cerc can			10 >95%
				2					2	Lind ben			
				1					1	Aris dra			
	4	4	2						5	Ulm ala			
		2	1						2	Nand dom			
							3		3	Viti rot			
							5		5	Viti cin			
							1		1	Desm per			

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.10

Page 4

County: Waggon Park: NATR VICK Plot Code: V8 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
			3	2					3	Celt lae		
							2		2	Smil gla		
							3		3	Part qdt		
			3						3	Ligu jap		
			4	2					4	Sida sty		
							3		3	Bign cap		
	4								4	Ulm ame		
				2					2	Frax car		
				2					2	Asim tri		
					2				2	Botr dis		
				1					1	Euon ame		
					1				1	Jani can		
					2				2	Arun gig		
					3				3	Poly act		
					1				1	Cyno vir		
		4							4	Ostr vir		
		2							2	Ligu sin		
			1						1	Debs vir		
5			2						5	Sass alb		
						2			2	Beri sca		
					2				2	Pass lut		
		3							3	Quer mue		
					1				1	Dich bos		
						2			2	Smil got		
					1				1	Sche oli		
			3	1					3	Corn flo		
			4						4	Call ame		
									4	Carp car		
					2				2	Care oxy		
3									3	Quer par		
									3	Ligu sty		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub

(> 1m; to 5m)

S2 Short Shrub

(< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

County: Warren Park: NATR VICK Plot Code: V11 State: AL MS TN Location org: NPS

VICK.11

Provisional community name Liquidambar styraciflua - Carya illinoensis - Quercus nigra Forest

Classified community name _____

Classifier _____ Date _____ NVC EL CODE CE6104122

Survey date: 8/31/2004 Surveyors initials: AS, CWN & Kurt Foote

Tagged tree is a Quercus nigra of 51 cm dbh with tag # 15 Center of 20 x 50m plot is at a bearing of 45 degrees and 4.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

Confederate part of South loop road. After 1st big clearing go into woods south of road at "US Carr's Approach on the line of Carr's left Approach" sign. Go due South.

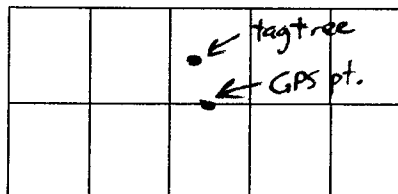
Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? YES ☒ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

NE
Slope
↓



20x50m plot

340°

bottom of draw

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 11-14

Description of pictures (N,E,S & W from GPS point at middle of plot): _____

Select one: UTM OR Lat/long (If lat/long, then values are 32.34082 N -090.85561 W)

GPS Techniques/Equipment: Garmin III+

Garmin V

Datum(pick one) NAD 83_OR_NAD27

UTM Zone: 15 16

GPS Unit ID _____

GPS file name V11

(standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? _____ Coordinate accuracy _____ m / ft DOP _____ # sats _____

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.11

Page 2

County: Waczen Park: NATR VICK Plot Code: VII State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>14</u> ° <u> </u> % Flat 0° 0% Gentle 0-5° 1-9% ☒ Moderate 6-14° 10-25% Somewhat steep 15-25° 26-49% Steep 27-45° 50-100% Very steep 45-69° 101-275% Abrupt 70-100° 276-300% Overhanging/shielded >100° >300%	Measured Aspect <u>55</u> ° (N=0°) Flat SE 113-157° Variable S 158-202° N 338-22° SW 203-247° ☒ NE 23-67° W 248-292° E 68-112° NW 293-337°	Topographic Position Interfluvium (Ridge/summit/crest) <u> </u> Toeslope High Slope (upper/convex slope) <u> </u> Midslope <u> </u> Low level (terrace) ☒ Lowslope (lower/footslope) <u> </u> Channel bed Cowardin System ☒ Upland <u> </u> Palustrine <u> </u> Estuarine <u> </u> Lacustrine <u> </u> Riverine
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Landform (check most applicable) Alluvial flat Alluvial terrace Bald Bank Bar Bench Bottomlands Cliff	Cove Depression Draw Exogenous dome Floodplain Gap Gorge Hillslope bedrock outcrop Midslope Nose slope	Ridge Ridgetop bedrock outcrop Saddle Seep Toe slope ☒ Slope Streambed Streamhead Periglacial boulderfield Ravine
--	---	--

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Steep and erodable, there is colluvial soil in the bottom below this slope. Historically was open during civil war battle, Terry Winschel (NPS).

Soil Texture: Sand <u> </u> Peat <u> </u> ☒ Silt loam <u> </u> Muck <u> </u> Sandy loam <u> </u> Loam <u> </u> Clay loam <u> </u> Clay <u> </u>	Drainage: ☐ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained ☒ Well drained ☐ Poorly drained ☐ Very poorly drained
--	---

Ground cover % Bedrock <u> </u> % Large rocks (cobbles, boulders >10cm) <u> </u> % Small rocks (gravel, 0.2-10 cm) <u> </u> % Sand (0.1-2 mm) <u> </u>	57 % Litter, duff 3 % Wood (> 1 cm) % Water 40 % Bare soil	% Other <u> </u>
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Leaf type: ☒ Broad-leaved Needle-leaved Microphyllous Graminoid Broad-leaved herbaceous Pteridophyte Extremely xeromorphic Mixed	Leaf phenology (dominant stratum) Evergreen ☒ Cold-deciduous Drought-deciduous Mixed evergreen-cold-deciduous Mixed evergreen drought deciduous Herb - Annual Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) Woodland (open tree canopy) Shrubland Dwarf Shrubland Herbaceous (less than 25% woody layers) Nonvascular Sparse Vegetation
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Natural and Anthropogenic Disturbance Logging <u> </u> fire <u> </u> Hydrologic ☒ erosion <u> </u> trails/roads <u> </u> Agriculture grazing/browsing <u> </u> wind/ice damage <u> </u> Old Growth pine bark beetle <u> </u> ☒ exotic plants <u> </u> Fire Suppression dogwood anthr <u> </u> ORV <u> </u>	Disturbance and animal use comments: <u>Lonicera japonica</u>
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NPS GULF COAST PROJECT: Plot Sampling Form

VICK, II

Page 3

County: Warren Park: NATR VICK Plot Code: V11 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Liquidambar styraciflua - 50%	.5-1m	10%
Understory T3	15-20m	60%	Morens rubra - 20%	1-2m	20%
Tall shrub S1	2-5m	50%	Ligustrum sinense - 20%	2-5m	30%
Short shrub S2	.5-1m	40%	—	5-10m	40%
Herbaceous	—	20%	Arundinaria gigantea - 5%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	80%	Lonicera japonica - 70%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	7	5	5						8	Liqu sty			1 trace
			4	3					4	Cerc can			2 0.1-1%
							8		8	Loni jap			3 1-2%
	6		5	4					6	Cary ill			4 2-5%
				4			6		6	Toxi rad			5 5-10%
			6	4					6	Ligu sin			6 10-25%
			4	3					4	Acer neg			7 25-50%
				3					3	Euon arb			8 50-75%
			2	2					2	Frax ser			9 75-95%
					2				2	Aspl pla			10 >95%
							2		2	Smil gla			
	5	5	2	3					3	Lind bah			
				3					6	Quer nig			
					2				2	Opili set			
		5	4						5	Acer bar			
		6	3	2					6	Moren rub			
	5								5	Quer par			

Community Survey

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.11

Page 4

County: Warren Park: NATR VICK Plot Code: V11 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
					3				3	Rubv fla		
			4						4	Ulmv ame		
			4	2					4	Fean car		
				2					2	Celt lac		
				2					2	Dios yir		
							5		5	Viti rot		
			4	3					4	Liri tul		
							2		2	Part qui		
			2						2	Corn drv		
				2					2	Samb can		
					1				1	Makeley sp		
			4	3					4	Ulmv dlag		
				4					4	Sasy alb		
				3					3	Nand dom		
					2				2	Quermic		
					4				4	Boch cyl		
							2		2	Arun gig		
							2		2	Beruscid		
					2				2	Bign cap		
					1				1	Rubv arg		
					2				2	Carex sp		
					2				2	Preum can		
					2				2	Athy Rel		
					2				2	Aris ser		
				1					1	Asim tri		
				2					2	Eupa rug		
									2	Punh cog		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub
(> 1m; to 5m)

S2 Short Shrub
(< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

County: Warren Park: NATR (VICK) Plot Code: VIIA State: AL (MS) TN Location org: NPS

Provisional community name Quercus pagoda - Quercus nigra Forest

Classified community name Quercus pagoda - Quercus nigra Forest

Classifier Date NVC EL CODE CEAL004109

Survey date: 8/31/2004 Surveyors initials: AS, CWN & Kurt Foote

Tagged tree is a Water oak of ~52 cm dbh with tag # 16. Center of 20 x 50m plot is at a bearing of 330 degrees and 2.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): Confederate South Loop Rd.
South of 1st parking area on right (Texas). From "US Carr's Approach" sign on
high mowed area go South along opening into woods along ridge.
From "Iowa 22d Infantry 2nd Bn. 14th DIV. 13th CORPS Advanced
Sharpshooters line June 19-July 4 1863" sign about 40m
at 145° SE to tag tree

Time taken to walk to plot: 5 minutes

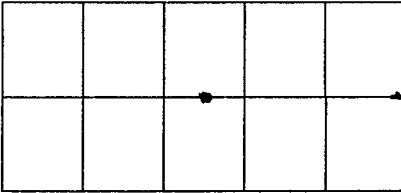
PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES ☒ NO - If not, depict below

PLOT LOCATION (Below show general plot location)

mowed ridge - Iowa 22nd
sign

20x50m plot

Slope


350°

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 15-18

Description of pictures (N,E,S & W from GPS point at middle of plot):

17(S-includes Kurt Foote)

Select one: UTM OR (Lat/long) (If lat/long, then values are WGS 84 32.34101 N -090.85604 W)

GPS Techniques/Equipment: Garmin III Garmin V Datum(pick one) NAD 83 OR NAD27 UTM Zone: 15 16

GPS Unit ID 3 GPS file name VIIA (standard = First letter of park + # of plot (N04 or V04))

Field UTM X m E Y m N Elevation m / ft

Averaging performed (at least 120 observations) 246 Coordinate accuracy 3.6 m / ft DOP # sats 6

County: Warren Park: NATR VICK Plot Code: VIIA State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>9</u> ° <u> </u> % — Flat 0 ° 0 % — Gentle 0-5 ° 1-9 % ☒ Moderate 6-14 ° 10-25 % — Somewhat steep 15-25 ° 26-49 % — Steep 27-45 ° 50-100 % — Very steep 45-69 ° 101-275 % — Abrupt 70-100 ° 276-300 % — overhng/shltd > 100 ° > 300 %	Measured Aspect <u>90</u> ° (N=0 °) — Flat — SE 113-157 ° — Variable — S 158-202 ° — N 338-22 ° — SW 203-247 ° — NE 23-67 ° — W 248-292 ° ☒ E 68-112 ° — NW 293-337	Topographic Position — Interfluv (Ridge/summit/crest) — Toeslope ☒ High Slope (upper/convex slope) — Midslope — Low level (terrace) — Lowslope (lower/footslope) — Channel bed Cowardin System — Upland — Palustrine — Estuarine — Lacustrine — Riverine
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Landform (check most applicable)

☐ Alluvial flat
☐ Alluvial terrace
☐ Bald
☐ Bank
☐ Bar
☐ Bench
☐ Bottomlands
☐ Cliff

☐ Cove
☐ Depression
☐ Draw
☐ Exogenous dome
☐ Floodplain
☐ Gap
☐ Gorge
☐ Hillslope bedrock outcrop
☐ Midslope
☐ Nose slope

☐ Ridge
☐ Ridgetop bedrock outcrop
☐ Saddle
☐ Seep
☒ Toe slope
☒ Slope
☐ Streambed
☐ Streamhead
☐ Periglacial boulderfield
☐ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Was cleared during civil war (NPS - Terry Winschel)

Soil Texture:

☐ Sand ☐ Peat ☒ Silt loam ☐ Muck
☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay

Drainage:

☒ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☒ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

☐ % Bedrock 87 % Litter, duff ☐ % Other
☐ % Large rocks (cobbles, boulders > 10cm) 3 % Wood (> 1 cm)
☐ % Small rocks (gravel, 0.2-10 cm) % Water
☐ % Sand (0.1-2 mm) 10 % Bare soil

Leaf type:

☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☐ Evergreen
☒ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☐ logging ☐ fire ☐ Hydrologic
☒ erosion ☐ trails/roads ☐ Agriculture
☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth
☐ pine bark beetle ☒ exotic plants ☐ Fire Suppression
☐ dogwood anthr ☐ ORV

Disturbance and animal use comments:

Lonicera japonica

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.12

Page 3

County: Warren Park: NATR VICK Plot Code: VIIA State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Quercus pagoda 40%, Quercus nigra - 30%, Liquidambar styraciflua - 20%	.5-1m	10%
Understory T3	15-20m	30%	Liriodendron tulipifera - 10%, Liquidambar - 10%	1-2m	20%
Tall shrub S1	2-5m	50%	Ligustrum sinense - 20%, Cercis canadensis - 10%	2-5m	30%
Short shrub S2	.5-1m	30%	Fraxinus caroliniana - 5%, Cercis canadensis - 5%	5-10m	40%
Herbaceous	-	30%	Aronia gigantea - 20%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	30%	Lonicera japonica - 20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?
	7		3						7	Quer pag		
	7		3	3					67	Quer nig		
		5							5	Liri tul		
			5	4					6	Frax car		
		4	3						4	Ulm al		
			6	3					6	Ligu sin		
		4	6	4					6	Cerc can		
				3					3	Cary ill		
							2		2	Part qui		
			5	3					5	Ulm ame		
	6	5		3					6	Ligu sty		
							6		6	Loni jap		
					6				6	Aron gila		
			3	2					3	Dios v		
							2		2	Bign cap		
									1	Aster tr		
									1	Moru rub		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.12

County: Warren Park: NATR VICK Plot Code: VIIA State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
							4		4	Viti rot		
		43							4	Quer mic		
				2					2	Geum can		
			2						2	Nand dom		
				2					2	Phyto ame		
			1						1	Albi jul		
		42							4	Acer neg		
	4	23							4	Prun ser		
				2					2	Eupa rug		
				2					2	Frax ame		
				2					2	Aspl pla		
		2							2	Poun car		
		31							3	Celt lac		
				2					2	Ophi set		
				1					1	Ericc hie		
						2			2	Cocc car		
				2					2	Rubu arg		
		3							3	Corn flg		
		32							3	Acer bar		
				2					2	Desm per		
			1						1	Tugl nig		
		2							2	Conc dro		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub
(> 1m; to 5m)
S2 Short Shrub
(< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

County: Warren Park: NATR (VICK) Plot Code: V12 State: AL (MS) TN Location org: NPS

Provisional community name Quercus pagoda - Quercus nigra Forest

Classified community name

Classifier CWN Date _____ NVC ELCODE 2EGL004109

Survey date: 9/1/2004 Surveyors initials: CWN & AS

Tagged tree is a Sweetgum of 27 cm dbh with tag # 28. Center of 20 x 50m plot is at a bearing of 190 degrees and 5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

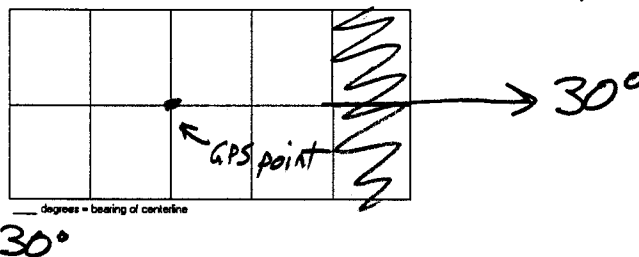
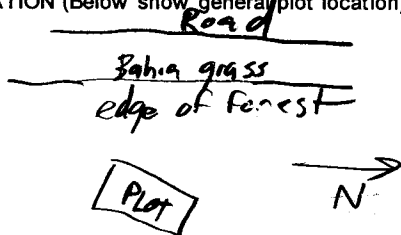
On North Loop road, past Michigan Monument. Park where grassy area narrows go east into woods about 50 m to plot.

Time taken to walk to plot: 3 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? ☒ YES ☐ NO - If not, depict below

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 85-88

Description of pictures (N, E & W from GPS point at middle of plot):

Select one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 32.35537° N 090.83990° W)

GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD 27 UTM Zone: 15 ~~16~~

GPS Unit ID 3 GPS file name V12 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 175 Coordinate accuracy 8 m / ft DOP 2.5 # sats 5

County: Warren Park: NATR VICK Plot Code: V12 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ° % Flat 0 ° 0 % ☒ Gentle 0-5 ° 1-9 % Moderate 6-14 ° 10-25 % Somewhat steep 15-25 ° 26-49 % Steep 27-45 ° 50-100 % Very steep 45-69 ° 101-275 % Abrupt 70-100 ° 276-300 % ovrhng/shitrd >100 ° >300 %	Measured Aspect ° (N=0 °) Flat SE 113-157 ° ☒ Variable S 158-202 ° N 338-22 ° SW 203-247 ° NE 23-67 ° W 248-292 ° E 68-112 ° NW 293-337	Topographic Position ☒ Interfluvial (Ridge/summit/crest) Toeslope High Slope (upper/convex slope) Midslope Low level (terrace) Lowslope (lower/footslope) Channel bed Cowardin System ☒ Upland Palustrine Estuarine Lacustrine Riverine
Landform (check most applicable) Alluvial flat Alluvial terrace Bald Bank Bar Bench Bottomlands Cliff Cove Depression Draw Exogenous dome Floodplain Gap Gorge Hillslope bedrock outcrop Midslope Nose slope ☒ Ridge Ridgetop bedrock outcrop Saddle Seep Toe slope Slope Streambed Streamhead Periglacial boulderfield Ravine		
Rock types present: Hydrologic Regime (check only for wetlands) ☒ Not a wetland (Upland: XERIC : <u>DRY</u> - MESIC : MESIC) Intermittently flooded Permanently flooded Semipermanently flooded Temporarily Flooded (e.g. floodplains) Seasonally Flooded (e.g. seasonal ponds) Saturated (e.g. bogs, perennial seeps) Unknown Irregularly flooded Irregularly exposed		
QUALITATIVE ASSESSMENT: A) HYDROLOGY: Hydrology may be altered due to domination by the evergreen Chinese privet. The lack of leaf litter on the ground may lead to faster run off and erosion. B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability): Dominated by Chinese privet (tall shrub) ~80% cover Tree canopy is open. There is less leaf litter on the ground due to privet domination, and more soil erosion.		
Soil Texture: Sand Peat ☒ Silt loam Muck Sandy loam Loam Clay loam Clay	Drainage: ☒ Rapidly drained Moderately well drained Somewhat poorly drained ☒ Well drained Poorly drained Very poorly drained	
Ground cover % Bedrock <u>60</u> % Litter, duff % Other _____ % Large rocks (cobbles, boulders >10cm) % Wood (> 1 cm) % Small rocks (gravel, 0.2-10 cm) % Water % Sand (0.1-2 mm) <u>40</u> % Bare soil		
Leaf type: ☒ Broad-leaved Needle-leaved Microphyllous Graminoid Broad-leaved herbaceous Pteridophyte Extremely xeromorphic Mixed	Leaf phenology (dominant stratum) Evergreen ☒ Cold-deciduous Drought-deciduous Mixed evergreen-cold-deciduous Mixed evergreen drought deciduous Herb - Annual Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) Woodland (open tree canopy) Shrubland Dwarf Shrubland Herbaceous (less than 25% woody layers) Nonvascular Sparse Vegetation
Natural and Anthropogenic Disturbance logging fire Hydrologic erosion trails/roads Agriculture grazing/browsing wind/ice damage Old Growth pine bark beetle ☒ exotic plants Fire Suppression dogwood anthr ORV		Disturbance and animal use comments: <u>40</u> Chinese privet ~80% cover.

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.13

Page 3

County: Waller Park: NATR VICK Plot Code: V12 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Quercus pagoda - 50%, Liquidambar styraciflua - 20%	.5-1m	10%
Understory T3	15-20m	20%	Celtis laevigata - 5%, Morus rubra - 5%, Coccinia cordata - 5%, Acer negundo - 5%	1-2m	20%
Tall shrub S1	2-5m	90%	Ligustrum sinense - 80%	2-5m	30%
Short shrub S2	.5-1m	20%	Ligustrum sinense - 10%	5-10m	40%
Herbaceous	-	10%	herb layer sparse; total: 10%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	40%	Toxicodendron radicans - 30%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
		4							4	Celt lae			1 trace
		4	3						4	Morus rub			2 0.1-1%
		4	1						4	Coc can			3 1-2%
		9	5						9	Ligu sin			4 2-5%
		3							3	Alnus inc			5 5-10%
							4		4	Leni jap			6 10-25%
		4	3						4	Pan car			7 25-50%
			3				7		7	Toxi rad			8 50-75%
				2					2	Trac dif			9 75-95%
6		4							6	Ligu sty			10 >95%
							2		2	Coc car			
							4		4	Viti cin			
					2				2	Athy fil			
					2				2	Rubu arg			
					1				1	Asp plac			
							4		4	Pant qui			
					2				2	Bign cup			

Community Survey

Page 3

VICK.13

[illegible]

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

E Epiphytes

Page 4

NPS GULF COAST PROJECT: Plot Sampling Form

VICK. 14

Page 1

County: Warren Park: NATR VICK Plot Code: V12A State: AL MS TN Location org: NPSProvisional community name Liquidambar styraciflua - Carya illinoensis - Quercus nigra Forest

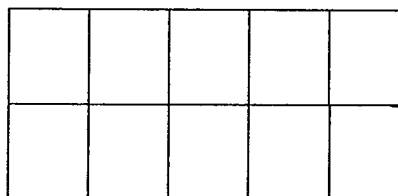
Classified community name

Classifier CWN Date _____ NVC ELCODE CEGL004122Survey date: 9/1/2004 Surveyors initials: CWN & ASTagged tree is a Sweet gum of 41 cm dbh with tag # 29. Center of 20 x 50m plot is at a bearing of 100 degrees and 3 m from tree. tag is on west side of tree.Directions to tag tree (including any notes on best access route, and mile marker): On North Loop Rd, past (N of) Michigan Monument. Park where grassy area narrows and go east into woods about 100 m to NE facing slope with big trees.Time taken to walk to plot: 10 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES ☒ NO - If not, depict below

PLOT LOCATION (Below show general plot location)

to ↑ Plot V12 upper slope (more private)down slope
↓

20x50m plot

→ 335°335°
degrees = bearing of centerline

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HAdrawPIC # 89-92

Description of pictures (N, E & W from GPS point at middle of plot):

93 & 94 of large water oak at m 13 along transect.Select one: UTM OR Lat/long (If lat/long, then values are 32.35537° N 090.83947° W)WGS 84GPS Techniques/Equipment: Garmin III+ Garmin VDatum (pick one) NAD 83 OR NAD 27UTM Zone: 15 16GPS Unit ID 3GPS file name V12A (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? _____ Coordinate accuracy 10 m / ft DOP 2.6 # sats 5

Community Survey

Page 1

County: Warren Park: NATR VICK Plot Code: VIZA State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>25</u> ° <u> </u> % — Flat 0° 0 % — Gentle 0-5° 1-9 % — Moderate 6-14° 10-25 % ☒ Somewhat steep 15-25° 26-49 % — Steep 27-45° 50-100 % — Very steep 45-69° 101-275 % — Abrupt 70-100° 276-300 % — Overhanging/shielded >100° >300 %	Measured Aspect <u>60</u> ° (N=0°) — Flat — SE 113-157° — Variable — S 158-202° ☒ N 338-22° — SW 203-247° ☒ NE 23-67° — W 248-292° — E 68-112° — NW 293-337°	Topographic Position — Interfluvium (Ridge/summit/crest) — Toeslope — High Slope (upper/convex slope) ☒ Midslope — Low level (terrace) — Low slope (lower/footslope) — Channel bed Corridor System ☒ Upland — Palustrine — Estuarine — Lacustrine — Riverine
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Landform (check most applicable) — Alluvial flat — Alluvial terrace — Bald — Bank — Bar — Bench — Bottomlands — Cliff	— Cove — Depression — Draw — Exogenous dome — Floodplain — Gap — Gorge — Hillslope bedrock outcrop — Midslope — Nose slope	— Ridge — Ridgetop bedrock outcrop — Saddle — Seep ☒ Slope — Streambed — Streamhead — Periglacial boulderfield — Ravine
--	---	---

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

erosion from up slope may be increased due to high cover of Chinese Privet there (see notes on plot V12).

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

may have been cleared during Civil War.

Soil Texture: — Sand — Peat ☒ Silt loam — Muck — Sandy loam — Loam — Clay loam — Clay	Drainage: — Rapidly drained — Moderately well drained — Somewhat poorly drained ☒ Well drained — Poorly drained — Very poorly drained
--	--

Ground cover — % Bedrock — % Large rocks (cobbles, boulders >10cm) — % Small rocks (gravel, 0.2-10 cm) — % Sand (0.1-2 mm)	<u>75</u> % Litter, duff <u>5</u> % Wood (> 1 cm) — % Water <u>20</u> % Bare soil	— % Other
---	--	-----------

Leaf type: ☒ Broad-leaved — Needle-leaved — Microphyllous — Graminoid — Broad-leaved herbaceous — Pteridophyte — Extremely xeromorphic — Mixed	Leaf phenology (dominant stratum) — Evergreen ☒ Cold-deciduous — Drought-deciduous — Mixed evergreen-cold-deciduous — Mixed evergreen drought deciduous — Herb - Annual — Herb - Perennial	Phytognomic Class ☒ Forest (closed tree canopy) — Woodland (open tree canopy) — Shrubland — Dwarf Shrubland — Herbaceous (less than 25% woody layers) — Nonvascular — Sparse Vegetation
---	--	---

Natural and Anthropogenic Disturbance ☒ logging — fire — Hydrologic ☒ erosion — trails/roads — Agriculture — grazing/browsing — wind/ice damage — Old Growth — pine bark beetle ☒ exotic plants — Fire Suppression — dogwood anthr — ORV	Disturbance and animal use comments:
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County: Wasson Park: NATR VICK Plot Code: V12A State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Liquidambar styraciflua - 30%, Carya illinoensis - 30%, Quercus nigra - 20%	.5-1m	10%
Understory T3	15-20m	50%	Acer negundo - 20%, Liriodendron tulipifera - 20%	1-2m	20%
Tall shrub S1	2-5m	80%	Ligustrum sinense - 90%	2-5m	30%
Short shrub S2	.5-1m	50%	Toxicodendron radicans - 20%	5-10m	40%
Herbaceous	-	10%	herb layer sparse; total = 10%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	30%	Vitis cinerea - 20%, Lonicera japonica - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	9			2					9	Cary ill			1 trace
	7		4	2					7	Liqu sty			2 0.1-1%
		6	3	3					7	Acer neg			3 1-2%
	6		2	2					6	Querc nig			4 2-5%
		4	3	1					4	Querc mi			5 5-10%
				6			3		6	Toxi rad			6 10-25%
			8	4					8	Ligu sin			7 25-50%
			6	3					6	Ulm rub			8 50-75%
			3	1					3	Prun ser			9 75-95%
							5		5	Loni jap			10 >95%
							1		1	Smil gla			
					2				2	Ophi set			
					2				2	Alth fil			
					2				2	Sani can			
			4	3					4	Mony rub			
					2				2	Matela sp.			
			4	2					4	Celt lac			

VILK.14

County: Wascen Park: NATR (VICK) Plot Code: V12A State: AL (MS) TN Location org: NPS

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
				2					2	Cbeum can		
							3		3	Bign cap		
			3	2					3	Frax car		
				2					2	Polygonum virginianum		
							6		6	Viti cin		
				2					2	Eupa ser		
							2		2	Cocc car		
							1		1	Smil gla		
			4	2					4	Pan car		
				1					1	Side lyc		
				2					2	Aspl pla		
	6								6	Liri ful		
				1					1	Botr dis		
	4		2						4	Robi pse		
			~~2~~						2	Poly acr		

1.	trace
2.	0.1-1%
3.	1-2%
4.	2-5%
5.	5-10%
6.	10-25%
7.	25-50%
8.	50-75%
9.	75-95%
10.	>95%

E Epiphytes

Community Survey
Page 4

VICK, 15

NCVS PLOT CLASSIFICATION ANNOTATION SHEET (version 12-19-2000)

Plot Record: Study____, Team____, Plot V15.Annotated by: CWNAnnotation Date (D-M-Y): 9 / 15 / 2004

Method of assignment:

- ☒ inspection ☐ multivariate
☐ tabular analysis ☐ expert system

Assignment to Classification(s)

Class CODE	Fit*	Conf. #	Reference	Notes:
~~7184~~	~~2~~	~~M~~		<i>Liriodendron tulipifera - Acer negundo range extension - <u>high gradient</u></i>
5033	1	H		<i>Acer negundo Forest Large flood plains</i>
~~4690~~	~~2~~	~~H~~		<i>Acer negundo - (Platanus occidentalis, Populus deltoides) Forest → right area (No Liriodendron) streams</i>

Other Comments:

*FIT: 1 = fits concept well
 2 = fits; not typical

*CONFIDENCE: H = High
 M = Moderate

County: WARREN Park: NATR (VICK) Plot Code: V15 State: AL (MS) TN Location org: NPSProvisional community name PERN RAVINEClassified community name Acer negundo ForestClassifier OWN Date 5/12/2005 NVC ELCODE CE4L00 5033Survey date: 9/11/04 Surveyors initials: A.S. E.L.Tagged tree is a NO TAG of cm dbh with tag # . Center of 20 x 50m plot is at a bearing of 55 NE degrees and 15 m from GPS POINT TAKEN ON CLIFF OVERLOOKING PLOT.

Directions to tag tree (including any notes on best access route, and mile marker):

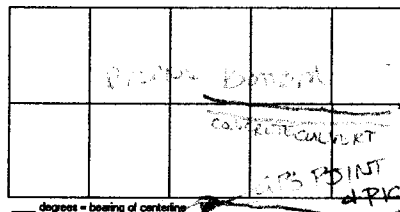
NW CORNER OF PARK. FOLLOW UNION AVE TO ITS NORTH MOST REACH & FOLLOW ITS SHARP CURVES.PULL OVER WHERE RD STRAIGHTENS OUT TO THE SW - 220°, IN VIEW OF THE "WASHINGTON MONUMENT" LOOK-ALIKE (NAVY MONUMENT). WALK SE INTO WOODS & DOWN TO ABRUPT EDGE OF RAVINE. GPS POINT TAKEN AT TOP CLIFF OFFSET FROM PLOT CENTER BY 15M.

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 48-52

Description of pictures (N,E,S & W from GPS point at middle of plot):

48/49 AL STANDING AT EDGE OF CLIFF ABOVE PLOT. 50 = NW END OF PLOT; 51 = CLOSE UP OF PERN; 52 = SE END OF PLOT FROM ATOP CLIFFSelect one: UTM OR Lat/long (If lat/long, then values are 32.37254 N -90.86163 WWAS 84GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD-83 OR NAD27 UTM Zone: 15 16GPS Unit ID GPS file name V15 (standard = First letter of park + # of plot (N04 or V04))Field UTM X m E Y m N Elevation m / ftAveraging performed (at least 120 observations)? 130 Coordinate accuracy 70 m / ft DOP 1.8 # sats 5

County: WARREN Park: NATR VICK Plot Code: V15 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope _____ ° _____ % ☐ Flat 0 ° 0 % ☒ Gentle 0-5 ° 1-9 % ☐ Moderate 6-14 ° 10-25 % ☐ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ Overhanging/shelved >100 ° >300 %	Measured Aspect <u>40</u> ° (N=0 °) ☐ Flat ☒ SE 113-157 ° ☐ Variable ☐ S 158-202 ° ☐ N 338-22 ° ☐ SW 203-247 ° ☐ NE 23-67 ° ☐ W 248-292 ° ☐ E 68-112 ° ☐ NW 293-337 °	Topographic Position ☐ Interfluvium (Ridge/summit/crest) ☐ Toeslope ☐ High Slope (upper/convex slope) ☐ Midslope ☐ Low level (terrace) ☐ Low slope (lower/footslope) ☒ Channel bed Cowardin System ☒ Upland ☐ Palustrine ☐ Estuarine ☐ Lacustrine ☐ Riverine
Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☒ Bottomlands ☐ Cliff	☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope	☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☐ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☒ Ravine
Rock types present: <u>None apparent</u>		
Hydrologic Regime (check only for wetlands) ☒ Not a wetland (Upland: XERIC : DRY - MESIC (MESIC)) ☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains) ☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed		
QUALITATIVE ASSESSMENT: A) HYDROLOGY: <u>Colluvium evident; sections of adjacent slopes are steep-sided and heavily eroded. Concrete cover lines stream bottom for roughly 100 feet.</u> B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability): <u>Previous land use activities (mainly land clearing) was likely responsible for the deep eroded gullies present today.</u>		
Soil Texture: ☐ Sand ☐ Peat ☒ Clay ☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Muck ☐ Clay	Drainage: ☒ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained ☒ Well drained ☐ Poorly drained ☐ Very poorly drained	
Ground cover ☐ % Bedrock <u>95</u> % Litter, duff ☐ % Large rocks (cobbles, boulders >10cm) <u>5</u> % Wood (> 1 cm) ☐ % Small rocks (gravel, 0.2-10 cm) _____ % Water ☐ % Sand (0.1-2 mm) _____ % Bare soil		
Leaf type: ☒ Broad-leaved ☐ Needle-leaved ☐ Microphyllous ☐ Graminoid ☐ Broad-leaved herbaceous ☐ Pteridophyte ☐ Extremely xeromorphic ☐ Mixed	Leaf phenology (dominant stratum) ☒ Evergreen ☐ Cold-deciduous ☐ Drought-deciduous ☐ Mixed evergreen-cold-deciduous ☐ Mixed evergreen drought deciduous ☐ Herb - Annual ☐ Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) ☐ Woodland (open tree canopy) ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous (less than 25% woody layers) ☐ Nonvascular ☐ Sparse Vegetation
Natural and Anthropogenic Disturbance ☐ logging ☐ fire ☐ Hydrologic ☒ erosion ☐ trails/roads ☐ Agriculture ☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth ☐ pine bark beetle ☒ exotic plants ☐ Fire Suppression ☐ dogwood anthr ☐ ORV		Disturbance and animal use comments: <u>Erosion an artifact of human influences.</u>

County: Union Park: NATR VICK Plot Code: 115 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Liriodendron tulipifera - 30%, Acer negundo - 30%	.5-1m	10%
Understory T3	15-20m	30%	Acer negundo - 20%	1-2m	20%
Tall shrub S1	2-5m	5%	Ligustrum sinense - 5%	2-5m	30%
Short shrub S2	.5-1m	5%	short shrubs sparse; coverage = 5%	5-10m	40%
Herbaceous	—	70%	Thelypteris kunthii - 40%, Cyrtium fortunei - 20%	0-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	5%	vines sparse; total cover ~ 5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	7	6							7	Acer neg			1 trace
	7								7	Liri to			2 0.1-1%
		5							5	Acer rub			3 1-2%
				7					6	Thely kun			4 2-5%
				6					6	Cyrtium fortunei			5 5-10%
				4					4	Athy filix femina			6 10-25%
			4	2					4	Ligustrum sinense			7 25-50%
				2					2	Arctostaphylos			8 50-75%
				3					3	Hedera helix			9 75-95%
				1					1	Sanicula			10 > 95%
6				2					6	Populus deltoides			
				2					2	Cystopteris			
						3			3	Vitis cinerea			
						2			2	Lenis japonica			
				2					2	Eupatorium rugosum			
			3						3	Calluna vulgaris			

County: Warren Park: NATR VICK Plot Code: V25 State: AL MS TN Location org: NPSProvisional community name Liquidambar styraciflua-Carya illinoensis-Quercus nigra Forest

Classified community name

Classifier CWN Date _____ NVC EL CODE CEGLH12ZSurvey date: 9/11/04 Surveyors initials: AS, ELTagged tree is a Liqu sty of 28 cm dbh with tag # 42 Center of 20 x 50m plot is at a bearing of 80° degrees and 2.5 m from tree. (Facing ESE)

Directions to tag tree (including any notes on best access route, and mile marker):

FROM 3-WAY INTERSECTION OF UNION AVENUE & GRANT AVE (S.W. MAT) WHERE UNION
AVE TURNS W, FOLLOW BLAZED TRAIL W INTO WOODY RAVINE
(PART OF THE AL SCHUELER SCOUT TRAIL -- WHITE-TIPPED POST
MARKS ENTRANCE INTO WOODS, FOLLOWED BY ORANGE BLAZES)

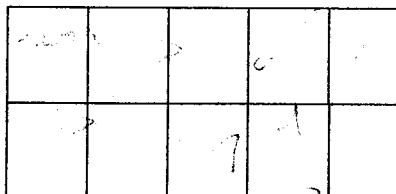
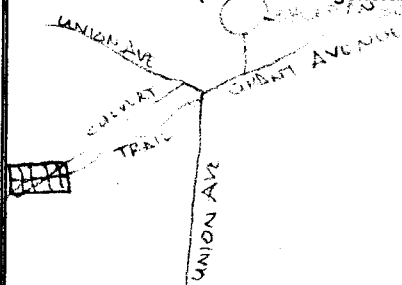
PLOT CENTER SITS ON CEMENT CULVERT

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? YES NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



20x50m plot

80° (W)

degrees = bearing of centerline

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 35-38

Description of pictures (N, E & W from GPS point at middle of plot): _____

Select one: UTM OR Lat/long (If lat/long, then values are 33.2741 N -90.8492 W)GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83_OR_NAD27 UTM Zone: 15 16GPS Unit ID _____ GPS file name V25 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 100 Coordinate accuracy 7.2 m / ft DOP 2.0 # sats 5

County: Warren Park: NATR VICK Plot Code: V25 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>10</u> ° <u> </u> % ☐ Flat 0 ° 0 % ☐ Gentle 0-5 ° 1-9 % ☒ Moderate 6-14 ° 10-25 % ☐ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ ovrhng/shltd >100 ° >300 %	Measured Aspect <u>245</u> ° (N=0 °) ☐ Flat <u>SE</u> 113-157 ° ☐ Variable <u>S</u> 158-202 ° ☐ N 338-22 ° ☒ SW 203-247 ° ☐ NE 23-67 ° ☐ W 248-292 ° ☐ E 68-112 ° ☐ NW 293-337 <u>245</u> ° ↓	Topographic Position ☐ Interfluv (Ridge/summit/crest) ☐ Toeslope ☐ High Slope (upper/convex slope) ☒ Midslope ☐ Low level (terrace) ☐ Lowslope (lower/footslope) ☐ Channel bed Cowardin System ☒ Upland ☐ Palustrine ☐ Estuarine ☐ Lacustrine ☐ Riverine
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Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☐ Bottomlands ☐ Cliff	☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope	☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☐ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☒ Ravine
--	---	---

Rock types present:

Hydrologic Regime (check only for wetlands)

☐ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: Runoff from paved ponds is directed into this ravine. A culvert is intended to minimize erosion. Elsewhere in plot erosion is unmitigated & causing a deep channel.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

A RAILROAD TRACK CROSSING THE PLOT

Soil Texture: ☐ Sand ☐ Peat ☒ Silt loam ☐ Muck ☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay	Drainage: ☐ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained ☒ Well drained ☐ Poorly drained ☐ Very poorly drained
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Ground cover ☐ % Bedrock ☐ % Large rocks (cobbles, boulders >10cm) ☐ % Small rocks (gravel, 0.2-10 cm) ☐ % Sand (0.1-2 mm)	☒ % Litter, duff ☒ % Wood (> 1 cm) ☐ % Water ☐ % Bare soil	☐ % Other <u>CEMENT CULVERT</u>
---	---	--

Leaf type: ☒ Broad-leaved ☐ Needle-leaved ☐ Microphyllous ☐ Graminoid ☐ Broad-leaved herbaceous ☐ Pteridophyte ☐ Extremely xeromorphic ☐ Mixed	Leaf phenology (dominant stratum) ☐ Evergreen ☒ Cold-deciduous ☐ Drought-deciduous ☐ Mixed evergreen-cold-deciduous ☐ Mixed evergreen drought deciduous ☐ Herb - Annual ☐ Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) ☐ Woodland (open tree canopy) ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous (less than 25% woody layers) ☐ Nonvascular ☐ Sparse Vegetation
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Natural and Anthropogenic Disturbance ☐ logging ☐ fire ☒ Hydrologic ☒ erosion ☒ trails/roads ☐ Agriculture ☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth ☐ pine bark beetle ☒ exotic plants ☐ Fire Suppression ☐ dogwood anthr ☐ ORV	Disturbance and animal use comments: CHANNELS OF EROSION COMMONLY NEARBY
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NPS GULF COAST PROJECT: Plot Sampling Form

VICK.16

Page 3

County: Washen Park: NATR VICK Plot Code: V25 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Liquidambar styraciflua - 30%, Populus deltoides - 20%, Robinia pseudo-acacia - 20%, Quercus prinus - 20%	.5-1m	10%
Understory T3	15-20m	40%	Ulmus alatus - 20%, Acer negundo - 10%	1-2m	20%
Tall shrub S1	2-5m	80%	Ligustrum sinense - 80%	2-5m	30%
Short shrub S2	.5-1m	20%	Ligustrum sinense - 10%	5-10m	40%
Herbaceous	—	20%	Arundinaria gigantea - 5%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	30%	Vitis cinerea - 10%, Lonicera japonica - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
5			2						5	Prun ser			1 trace
	5	4							5	Acer neg			2 0.1-1%
7									7	Ligu sty			3 1-2%
6									6	Popu del			4 2-5%
			9	5					9	Ligu sin			5 5-10%
										Vitis cin			6 10-25%
					2				2	Elym vir			7 25-50%
					2				2	Elep car			8 50-75%
					2				2	Cheum can			9 75-95%
					2				2	Polygonum virginianum			10 >95%
					2		2		2	Bign cap			
					3				3	Cyst pro			
					2				2	Ophi set			
					2				2	Athy filix-femina			
					2				2	Leet vir			
					4				4	Arum gig			
							5		5	Lonicap			

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.16

Page 4

County: Warren Park: NATR VICK Plot Code: V25 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
							5		5	Pact qui		
		4	4						5	marv rub		
6			3						6	Robi pse		
					2				2	Makela sp.		
					2				2	Bide bip		
		5		3					5	Quer nig		
			4	3					4	Cary cord		
6				2					6	Quer pag		
				5			4		5	Toxi rad		
					2				2	Appl pla		
					2				2	Cate oxy		
		6	3						6	Ulmus ala		
							5		5	Viti cin		
5									5	Liri tul		
					2				2	Sani can		
			3	2					3	Asim tri		
				2					2	Eupa ser		
			3						3	Celt lac		
				1					1	Side lyc		
					2				2	Care rhe		
					2				2	Hede hel		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub

(> 1m; to 5m)

S2 Short Shrub

(< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

Community Survey

Page 4

County: Warren Park: NATR VICK Plot Code: V34 State: AL MS TN Location org: NPSProvisional community name Liquidambar styraciflua - Carya illinoensis - Quercus nigra Forest

Classified community name

Classifier CWN Date _____ NVC ELCODE CEGL004122Survey date: 9/3/2004 Surveyors initials: CWN & ASTagged tree is a Pagoda oak of 155 cm dbh with tag # 36. Center of 20 x 50m plot is at a bearing of 90° degrees and 2.0 m from tree. tag is on N. side of tree

Directions to tag tree (including any notes on best access route, and mile marker):

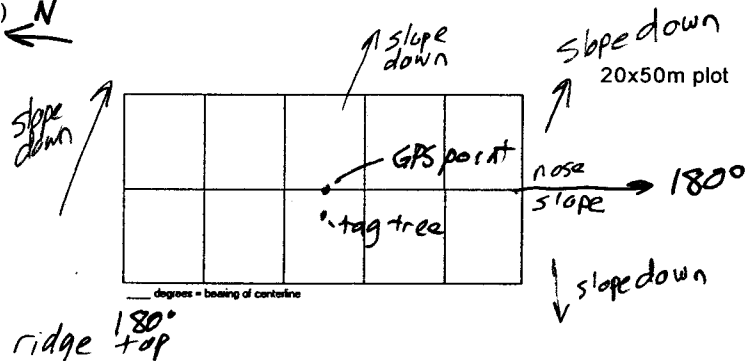
From North Loop Road, turn onto Graveyard Rd. To SW,
When Woods on south side of Graveyard Rd. are close pull
off on left at dirt pull off just after tree on left.
Go S (170°) into woods plot is on SE facing slope.

Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES ☒ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA } 1-10 HA 10-100HA > 100HA

PIC # 124-127 Description of pictures (N,E,S & W from GPS point at middle of plot): _____Select one: UTM OR Lat/long (If lat/long, then values are 32.36997° N - 090.84180° W
WGS 84GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD27 UTM Zone: 15 ~~10~~GPS Unit ID 3 GPS file name V34 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 199 Coordinate accuracy 13 m / ft DOP 2.9 # sats 3

County: Warren Park: NATR VICK Plot Code: V34 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>19</u> ° % ☐ Flat 0 ° 0 % ☐ Gentle 0-5 ° 1-9 % ☐ Moderate 6-14 ° 10-25 % ☒ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ overhng/shltd >100 ° >300 %	Measured Aspect <u>110</u> ° (N=0 °) ☐ Flat ☐ Variable ☐ N 338-22 ° ☒ NE 23-67 ° ☐ E 68-112 ° ☐ SE 113-157 ° ☐ S 158-202 ° ☐ SW 203-247 ° ☐ W 248-292 ° ☐ NW 293-337 °	Topographic Position ☐ Interfluv (Ridge/summit/crest) Toeslope ☒ High Slope (upper/convex slope) ☐ Midslope Low level (terrace) ☐ Lowslope (lower/footslope) Channel bed Cowardin System ☒ Upland ☐ Palustrine ☐ Estuarine ☐ Lacustrine ☐ Riverine
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Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☐ Bottomlands ☐ Cliff ☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope ☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☒ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine
--

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

This site has large trees of Pagoda oak and Shumard Oak.

Soil Texture:

☐ Sand ☐ Peat ☒ Silt loam ☐ Muck
☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay

Drainage:

☐ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☒ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

☐ % Bedrock 90 % Litter, duff ☐ % Other
☐ % Large rocks (cobbles, boulders >10cm) 3 % Wood (> 1 cm)
☐ % Small rocks (gravel, 0.2-10 cm) ☐ % Water
☐ % Sand (0.1-2 mm) 7 % Bare soil

Leaf type:

☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☒ Evergreen
☒ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☐ logging ☐ fire ☐ Hydrologic
☐ erosion ☐ trails/roads ☐ Agriculture
☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth
☐ pine bark beetle ☒ exotic plants ☐ Fire Suppression
☐ dogwood anthr ☐ ORV

Disturbance and animal use comments:

Lonicera japonica

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.17

Page 3

County: Warren Park: NATR VICK Plot Code: V34 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	70%	Liquidambar styraciflua - 30%, Quercus shumardii - 20%	5-1m	10%
Understory T3	15-20m	70%	Quercus muhlenbergii - 20%, Quercus shumardii - 10%, Quercus velutina - 10%, Magnolia - 20%	1-2m	20%
Tall shrub S1	2-5m	50%	Quercus muhlenbergii - 10%, Liquidambar sty - 10%, Ulmus alba - 10%	2-5m	30%
Short shrub S2	.5-1m	40%	Toxicodendron radicans - 20%	5-10m	40%
Herbaceous	-	60%	Arundinaria gigantea - 50%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	30	Lonicera japonica - 30%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	7		5	3					2	Liqu sty			1 trace
	3			3					3	Quer nig			2 0.1-1%
		6	3						6	Magn grand			3 1-2%
		4	5						6	Ulmus alba			4 2-5%
					8				8	Arund gig			5 5-10%
				6			4		6	Toxi rad			6 10-25%
			3						3	Corn flo			7 25-50%
			4						4	Corn dr			8 50-75%
			4	3					4	Ulmus rub			9 75-95%
							3		3	Bign cap			10 >95%
			2	3					3	Liqu sin			
			2	2					3	Coc can			
			2	1					2	Frax ame			
					1				1	Cyrt for			
							7		7	Loni jap			
							2		2	Gels sem			
		6	5	4					6	Quer mu			

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.17

Page 4

County: Warren Park: NATR VICK Plot Code: V34 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
				2						Samb can		
			4	2					4	Acer neg		
			2	2					3	Celt lac		
							4		4	Viti rot		
6	5								6	Quershu		
			3	2					3	Cary car		
					2				2	Amph bra		
				1					1	Side lyc		
5									5	Quercel		
					1				1	Care oxy		
				1					1	Dios vir		
			3	2					3	Prun ser		
			3						3	blaw jap		
					2				2	Isol plat		
					2				2	Poly acc		
			3						3	Prun car		
5									5	Querc pag		
							2		2	Smil tab		
								2	2	Pleopal var-mich		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

- T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub
(> 1m; to 5m)
S2 Short Shrub
(< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

County: WARREN Park: NATR VICK Plot Code: V35 State: AL MS TN Location org: NPS

2:55

Provisional community name Liquidambar styraciflua - Carya illinoensis - Quercus nigra Forest

Classified community name _____

Classifier CWN

Date _____

NVC ELCODE CEGL004122Survey date: 9/10/04Surveyors initials: AL SCHOTZ, ERWILLINGTagged tree is a Liquidambar of 49 cm dbh with tag # 39 Center of 20 x 50m plot is at a bearing of 292 degrees and 3.5 m from tree.

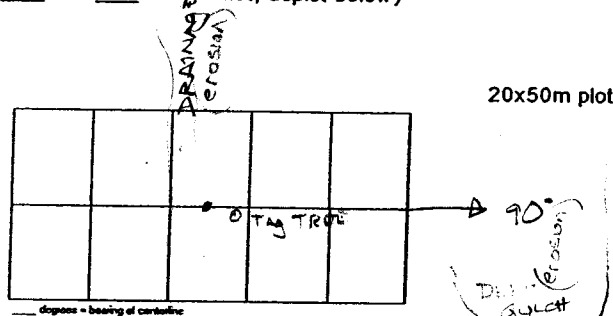
Directions to tag tree (including any notes on best access route, and mile marker):

FROM BROWN MONUMENT TO 17th INFANTRY (WISCONSIN), WALK INTO WOODS ~ 100m. SLOPE GRADUALLY INCREASES AT 100m.Time taken to walk to plot: 5 min

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES NO If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 14-17

Description of pictures (N, E, S & W from GPS point at middle of plot): _____

Select one: UTM OR Lat/long (If lat/long, then values are 32.3628 N 90.84150 W)GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD27 UTM Zone: 15 16GPS Unit ID _____ GPS file name V35 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 200 Coordinate accuracy 6.2 m / ft DOP 1.6 # sats 6

County: Warren Park: NATR VICK Plot Code: V35 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>30-33</u> % Flat 0° 0% Gentle 0-5° 1-9% Moderate 6-14° 10-25% Somewhat steep 15-25° 26-49% ☒ Steep 27-45° 50-100% Very steep 45-69° 101-275% Abrupt 70-100° 276-300% Overhanging/shielded >100° >300%	Measured Aspect <u>0</u> ° (N=0°) Flat SE 113-157° Variable S 158-202° ☒ N 338-22° SW 203-247° NE 23-67° W 248-292° E 68-112° NW 293-337	Topographic Position Interfluvium (Ridge/summit/crest) Toeslope ☒ High Slope (upper/convex slope) Midslope Low level (terrace) Low slope (lower/footslope) Channel bed Cowardin System Upland Palustrine Estuarine Lacustrine Riverine
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Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☐ Bottomlands ☐ Cliff ☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope ☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☒ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine
--

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: IMMEDIATELY E OF PLOT IS A HIGHLY ERODED HEAD OF A GULLY OR GULCH.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Based on size and structure of forest, site was likely cleared during Civil War. Subsequently, site was allowed to regenerate into a climax stage of early successional species, most notably Liquidambar. Former land disturbance has also served as an avenue for exotics, namely Japanese.

Soil Texture:

☐ Sand ☐ Peat ☐ Silt loam ☐ Muck
☐ Sandy loam ☐ Loam ☒ Clay loam ☐ Clay

Drainage:

☒ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☐ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

☐ % Bedrock 95 % Litter, duff ☐ % Other
☐ % Large rocks (cobbles, boulders > 10cm) 4 % Wood (> 1 cm)
☐ % Small rocks (gravel, 0.2-10 cm) ☐ % Water
☐ % Sand (0.1-2 mm) 1 % Bare soil

Leaf type:

☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☒ Evergreen
☒ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☐ logging ☐ fire ☒ Hydrologic
☐ erosion ☐ trails/roads ☐ Agriculture
☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth
☐ pine bark beetle ☒ exotic plants ☐ Fire Suppression
☐ dogwood anthr ☐ ORV

Disturbance and animal use comments:

Some Japanese honey suckle; site is relatively free of exotics, however.

County: Walton Park: NATR VICK Plot Code: V35 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	
Tree Canopy T2	20-35m	80%	Liquidambar styraciflua - 50%	.5-1m	5%
Understory T3	15-20m	20%	Liquidambar styraciflua - 10%	1-2m	10%
Tall shrub S1	2-5m	60%	Hydrangea quercifolia - 40%	2-5m	20%
Short shrub S2	.5-1m	40%	Toxicodendron radicans - 20%	5-10m	30%
Herbaceous	-	20%	Arundinaria gigantea - 5%	10-15m	40%
Non-vascular	-	-		15-20m	50%
Vine/liana	-	20%	Vitis cinerea - 5%	20-35m	60%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	70%
				> 50m	80%
					90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	8	5	2						8	Liqu sty			1 trace
			7	4					7	Hydr que			2 0.1-1%
			5	2					5	Corn flo			3 1-2%
					3				3	Poly acr			4 2-5%
			3	2					3	Cerc can			5 5-10%
				6			3		6	Toxi rad			6 10-25%
			3	2					3	Ulmus ala			7 25-50%
							3		3	Bign cap			8 50-75%
	5		5	3					6	Querc mbe			9 75-95%
					1				1	Botr vlr			10 >95%
			2	1					2	Side lyc			
	4		5	2					5	Cary cor			
							2		2	Viti rot			
					2				2	Phny lep			
					1				1	Aris tri			
				4					4	Arum gig			
			1						1	Frax car			

County: Warren Park: NATR VICK Plot Code: V35 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
				2					2	Aspl pla		
	6			2					6	Querc nig		
				2					2	Opil set		
							1		1	Smil gla		
							2		2	Cela sca		
				2					2	Dios vil		
							1		1	Smil tam		
			2						2	higu sin		
				1					1	Aster lat		
				1					1	Sani can		
				2					2	Lact flo		
5			2						5	Prun ser		
				1					1	Clem vir		
				2					2	Eupa ser		
				2					2	Care oxy		
6			2						6	Sass alb		
	4								4	Morv rub		
							4		4	Viti cin		
4									4	Liri tul		

Cover classes

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub

(>1m; to 5m)

S2 Short Shrub

(< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

County: WARREN Park: NATR VICK Plot Code: V35A State: AL MS TN Location org: NPS

Provisional community name _____

Classified community name Liriodendron tulipifera / (Cercis canadensis) / (Lindera benzoin) Forest
Classifier CWN Date 5/2005 NVC EL CODE CEGL007220Survey date: 9/10/04 Surveyors initials: A.S. ELTagged tree is a Liquid STY of 48 cm dbh with tag # 40 Center of 20 x 50m plot is at a bearing of 320 degrees and 7 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

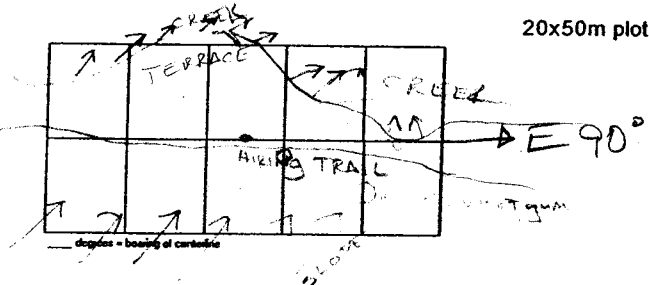
AT BASE OF SLOPE BELOW PLOT V35 (N04 V35)
RELAY TO MONUMENT TO V35.(~150m FROM MONUMENT)
(W45 - W42)

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? ☐ YES ☐ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 18-22Description of pictures (N, E, S & W from GPS point at middle of plot): 18-21 N, E, S, W22 = CANOPYSelect one: UTM OR Lat/long (If lat/long, then values are 32.36670 N -90.84136 W)GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD83 OR NAD27 UTM Zone: 15 16GPS Unit ID _____ GPS file name V35A (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 100 Coordinate accuracy 9 m / ft DOP 2.5 # sats 5

County: _____ Park: NATR VICK Plot Code: V35A State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope _____ ° _____ % ☐ Flat 0° 0% ☐ Gentle 0-5° 1-9% ☐ Moderate 6-14° 10-25% ☐ Somewhat steep 15-25° 26-49% ☒ Steep 27-45° 50-100% ☐ Very steep 45-69° 101-275% ☐ Abrupt 70-100° 276-300% ☐ Overhanging/shielded >100° >300%	Measured Aspect _____ ° (N = 0°) ☐ Flat ☐ Variable ☒ N 338-22° ☐ NE 23-67° ☐ E 68-112° ☐ SE 113-157° ☐ S 158-202° ☐ SW 203-247° ☐ W 248-292° ☐ NW 293-337°	Topographic Position ☐ Interfluvial (Ridge/summit/crest) _____ Toeslope ☐ High Slope (upper/convex slope) ☐ Midslope ☒ Low slope (lower/concave slope) _____ Low level (terrace) ☐ Channel bed ☒ W/ MANMADE TERRACE Cowardin System ☒ Upland _____ Palustrine ☐ Estuarine _____ Lacustrine _____ Riverine
Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☒ Bench ☐ Bottomlands ☐ Cliff ☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope ☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☐ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine		

Rock types present:

Hydrologic Regime (check only for wetlands)

☐ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded _____ Permanently flooded _____ Semipermanently flooded _____ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) _____ Saturated (e.g. bogs, perennial seeps) _____ Unknown _____ Irregularly flooded _____ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

FLASH FLOODING HAS CAUSED DEEP EROSION / CHANNELING IN NEARBY STREAM.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

SITE MAY HAVE BEEN FORMER ROAD PLACED ON WIDTH 4' LEVEL BENCH-LIKE TERRAIN ALONG TRAPSECT OF PLOT; SLOPE ON OTHER SIDE OF BENCH IS STEEP.

Soil Texture: 30% SANDY CLAY LOAM
☐ Sand ☐ Peat ☐ Silt loam ☐ Muck
☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay

Drainage:

☐ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☒ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

☐ % Bedrock ☒ 93% Litter, duff _____ % Other _____
☐ % Large rocks (cobbles, boulders > 10cm) ☒ 5% Wood (> 1 cm)
☐ % Small rocks (gravel, 0.2-10 cm) _____ % Water
☐ % Sand (0.1-2 mm) ☒ 2% Bare soil

Leaf type:

☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☐ Evergreen
☒ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☐ logging ☐ fire ☒ Hydrologic
☐ erosion ☐ trails/roads ☐ Agriculture
☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth
☐ pine bark beetle ☒ exotic plants ☐ Fire Suppression
☐ dogwood anthr ☐ ORV

Disturbance and animal use comments:

FOOT PATH THROUGH TRAPSECT OF PLOT.
LOTS OF OPPORTUNISTIC NASTY EXOTICS!

County: Warren Park: NATR VICK Plot Code: V35A State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35	80%	Liquidambar styraciflua - 60%	.5-1m	10%
Understory T3	15-20m	30%	Liquidambar styraciflua - 10%, Acer negundo - 10%, Ulmus rubra - 10%	1-2m	20%
Tall shrub S1	2-5m	30%	Ligustrum sinense - 10%	2-5m	30%
Short shrub S2	.5-1m	30%	Hydrangea arborescens - 10%	5-10m	40%
Herbaceous	—	40%	Arundinaria gigantea - 30%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	30%	Parthenocissus quinquefolia - 20%, Toxicodendron radicans - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	8	5	1						8	Liqu sty			1 trace
	6								6	Liri tul			2 0.1-1%
			3						3	Querc alb			3 1-2%
			5	3					5	Ligu sin			4 2-5%
			5	3					5	Hydr arb			5 5-10%
		5	3						5	Acer neg			6 10-25%
					2				2	Bach cyt			7 25-50%
					3				3	Athy filix-femina			8 50-75%
					2				2	Amph bra			9 75-95%
					2				2	Poly acr			10 >95%
			3						3	Nand dom			
				7					7	Arum gig			
		4	2						4	Hydr arb			
						3			3	Bign cap			
				2					2	thel kun			
				2					2	Leer vir			
						3			3	Loni jap			

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.19

Page 4

County: Warren Park: NATR VICK Plot Code: V35A State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
							3		3	Coll car		
				2					2	Samb can		
									1	Pter mul		
									1	Eupares		
				2					2	Cyst pro		
				2					2	Elap car		
				2					2	Duch ind		
				2					2	Polygonum virginianum		
				2					2	Care oxy		
						1			1	Smil tam		
									1	Phry lep		
				2					2	Hede hel		
									1	Viol aff		
									1	Sani can		
				2					2	Cryp can		
		3							3	Ponc tri		
				2					2	Care dig		
									1	Matela sp		
									1	Aris tri		
						6			6	Part qui		
		4		2					4	Lind ben		
				2					2	Liriope sp.		
				2					2	Ophi set		
				2					2	Pile pym		
			3				5		3	Toxi rad		
				1					1	Iris dsa		
		3							3	Celt lae		
		1							1	Prun car		
		2							2	Ulm al		
				2					2	Eupa rug		
		4							4	Ulm rub		
				2					2	Micr vim		
				1					1	Ranu rec		

Cover classes

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

- T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub
(>1m; to 5m)
S2 Short Shrub
(< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot Sampling Form

VICK. 20

Page 1

County: Warren Park: NATR (VICK) Plot Code: V36 State: AL (MS) TN Location org: NPSProvisional community name Quercus pagoda-Quercus nigra Forest

Classified community name

Classifier CWN Date _____ NVC ELCODE CEGL004109Survey date: 9/3/2004 Surveyors initials: CWN & ASTagged tree is a Water oak of ~33 cm dbh with tag # 37. Center of 20 x 50m plot is at a bearing of 300° degrees and 1.3 m from tree. Tag is on west side of tree

Directions to tag tree (including any notes on best access route, and mile marker):

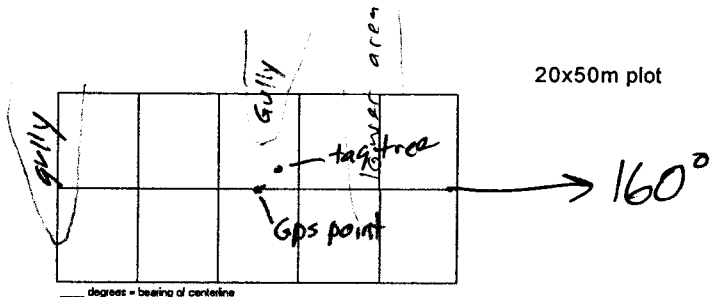
From Missouri Monument (South of Graveyard Rd.) walk South on mowed narrow ridge to grey stone marker for "ILLINOIS 116th Infantry. 1st Brig., 2^d DIV, 15th CORPS. sharpshooters line from May 23 to July 4, 1863." After blue sign (2nd). From here go about 40m at 120° SE to tag tree.

Time taken to walk to plot: 10 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? ☒ YES ☐ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 128-131

Description of pictures (N,E,S & W from GPS point at middle of plot): _____

Select one: UTM OR (Lat/long) (If lat/long, then values are 32.36641 N -090.84336 WWGS 84GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD 27 UTM Zone: 15 16GPS Unit ID 3 GPS file name V36 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 224 Coordinate accuracy 9 m / ft DOP 2.2 # sats 4

Community Survey

Page 1

County: Warren Park: NATR VICK Plot Code: V36 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>20</u> ° <u> </u> % — Flat 0 ° 0 % — Gentle 0-5 ° 1-9 % — Moderate 6-14 ° 10-25 % ☒ Somewhat steep 15-25 ° 26-49 % — Steep 27-45 ° 50-100 % — Very steep 45-69 ° 101-275 % — Abrupt 70-100 ° 276-300 % — ovrhng/shltd >100 ° >300 %	Measured Aspect <u>80</u> ° (N=0 °) — Flat — SE 113-157 ° — Variable — S 158-202 ° — N 338-22 ° — SW 203-247 ° ☒ NE 23-67 ° — W 248-292 ° ☒ E 68-112 ° — NW 293-337 °	Topographic Position — Interfluv (Ridge/summit/crest) — Toeslope — High Slope (upper/convex slope) ☒ Midslope — Low level (terrace) — Lowslope (lower/footslope) — Channel bed Cowardin System ☒ Upland — Palustrine — Estuarine — Lacustrine — Riverine
---	---	---

Landform (check most applicable)

- | | | |
|---|---|---|
| ☐ Alluvial flat
☐ Alluvial terrace
☐ Bald
☐ Bank
☐ Bar
☐ Bench
☐ Bottomlands
☐ Cliff | ☐ Cove
☐ Depression
☐ Draw
☐ Exogenous dome
☐ Floodplain
☐ Gap
☐ Gorge
☐ Hillslope bedrock outcrop
☐ Midslope
☐ Nose slope | ☐ Ridge
☐ Ridgetop bedrock outcrop
☐ Saddle
☐ Seep
☐ Toe slope
☒ Slope
☐ Streambed
☐ Streamhead
☐ Periglacial boulderfield
☐ Ravine |
|---|---|---|

Rock types present:

Hydrologic Regime (check only for wetlands)

- ☒ Not a wetland (Upland: XERIC : DRY - MESIC MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Ravines have formed from erosion, the one just downslope of GPS point is vegetated with Giant Cane.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

This site has fewer large trees than some of the other sites on the Northend. It may be a younger forest.

Soil Texture:

- ☐ Sand ☐ Peat ☒ Silt loam ☐ Muck
☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay

Drainage:

- ☒ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☒ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

- ☐ % Bedrock 92 % Litter, duff ☐ % Other _____
☐ % Large rocks (cobbles, boulders > 10cm) 2 % Wood (> 1 cm)
☐ % Small rocks (gravel, 0.2-10 cm) ☐ % Water
☐ % Sand (0.1-2 mm) 6 % Bare soil

Leaf type:

- ☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

- ☐ Evergreen
☒ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

- ☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

- ☐ logging ☐ fire ☐ Hydrologic
☐ erosion ☐ trails/roads ☐ Agriculture
☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth
☐ pine bark beetle ☒ Exotic plants ☐ Fire Suppression
☐ dogwood anthr ☐ ORV

Disturbance and animal use comments:

Lonicera japonica
Ligustrum sinense (only in small patches)

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.20

Page 3

County: Warren Park: NATR VICK Plot Code: V36 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Quercus nigra - 50%, Quercus pagoda - 30%	.5-1m	10%
Understory T3	15-20m	30%	Quercus nigra - 10%	1-2m	20%
Tall shrub S1	2-5m	60%	Prunus serotina - 20%, Ulmus alaba - 10%	2-5m	30%
Short shrub S2	.5-1m	60%	Toxicodendron radicans - 40%	5-10m	40%
Herbaceous	-	20%	Andropogon giganteus - 10%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	30%	Vitis cinerea - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
8	5	3	3						8	Quer nig			1 trace
7			2						9	Quer pag			2 0.1-1%
5									5	Pinu ta			3 1-2%
			6	3					6	Prun ser			4 2-5%
	3	3	3						6	Ulmus ala			5 5-10%
			7				3		7	Toxi rad			6 10-25%
		3	2						3	Fran car			7 25-50%
							4		4	Loni jap			8 50-75%
							3		3	Gels sem			9 75-95%
		4	3						4	Corn flo			10 >95%
							4		4	Viti rot			
	4		3						4	Cary cor			
							5		5	Viti cin			
	3	3	3						5	Cerc can			
							3		3	Bign cap			
			2						2	Hloush			
							4		4	Part qui			

VICK.20

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
							2		2	Smil gla		
			3						3	Ulmus amr		
					2				2	Polyacr		
			3	2					3	Prun car		
					5				5	Arum gig		
					1				1	Tris dr		
							2		2	Smil bon		
			3	2					3	Sass alb		
5	3								5	Ligu sty		
				1					1	Side lyc		
			3						3	Ligu jap		
			4	2					4	Over mde		
							2		2	Berc sca		
			4	2					4	Hydr que		
			4	2					4	Corn drw		
			3						3	Robi pse		
							2		2	Cela sca		
							2		2	Pleo pal var. mdr		
			1	2					2	Nand dom		
			4	3					4	Ulmus rub		
							2		2	Smil tum		

Cover classes	
1.	trace
2.	0.1-1%
3.	1-2%
4.	2-5%
5.	5-10%
6.	10-25%
7.	25-50%
8.	50-75%
9.	75-95%
10.	> 95%

E Epiphytes

Page 4

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.21

Page 1

County: Warren Park: NATR (VICK) Plot Code: V37 State: AL (MS) TN Location org: NPSProvisional community name Quercus nigra - Quercus muhlenbergii - Quercus velutinaClassified community name Liquidambar styraciflua - Carya illinoensis - Quercus nigra ForestClassifier CWN Date 9/2/2004 NVC ELCODE CEGL004122Survey date: 9/2/2004 Surveyors initials: CWN & ASTagged tree is a Basswood of 32 cm dbh with tag # 32 Center of 20 x 50m plot is at a bearing of 265 degrees and 4 m from tree. Tag is on east side of tree.

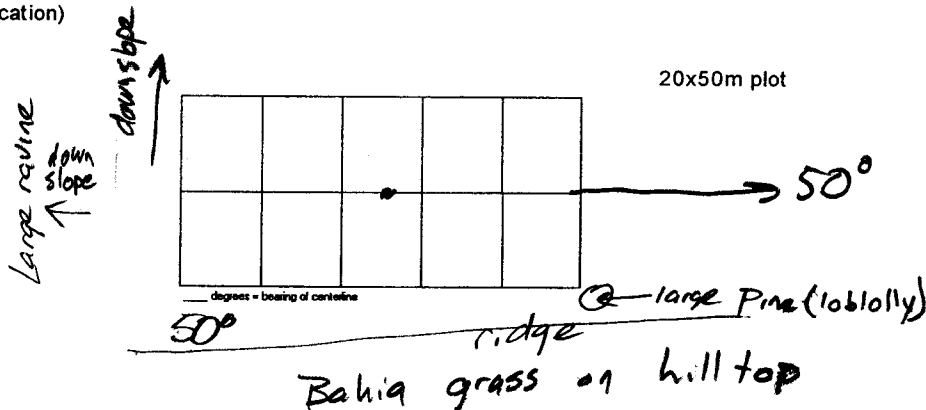
Directions to tag tree (including any notes on best access route, and mile marker):

North Loop Road stop at Tour Stop 4, before Wisconsin Monument. Plot is west of Tour Stop 4 on NW facing wooded slope.Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 103-106

Description of pictures (N, E, S & W from GPS point at middle of plot):

Select one: UTM OR (Lat/long) (If lat/long, then values are 32.36467° N - 090.84245° W
WGS 84)GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD83 OR NAD27 UTM Zone: 15 16GPS Unit ID 3 GPS file name V37 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 237 Coordinate accuracy 10 m / ft DOP 2.6 # sats 6

Community Survey

Page 1

County: Warren Park: NATR (VICK) Plot Code: V37 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>23</u> ° <u> </u> % ☐ Flat 0 ° 0 % ☐ Gentle 0-5 ° 1-9 % ☒ Moderate 6-14 ° 10-25 % ☒ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ ovrhng/shltrd >100 ° >300 %	Measured Aspect <u>320</u> ° (N=0 °) ☐ Flat <u> </u> SE 113-157 ° ☐ Variable <u> </u> S 158-202 ° ☐ N 338-22 ° <u> </u> SW 203-247 ° ☐ NE 23-67 ° <u> </u> W 248-292 ° ☐ E 68-112 ° <u> </u> NW 293-337 °	Topographic Position ☐ Interfluv (Ridge/summit/crest) <u> </u> Toeslope ☒ High Slope (upper/convex slope) <u> </u> ☐ Midslope <u> </u> Low level (terrace) ☐ Lowslope (lower/footslope) <u> </u> Channel bed Cowardin System ☒ Upland <u> </u> Palustrine ☐ Estuarine <u> </u> Lacustrine <u> </u> Riverine
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Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☐ Bottomlands ☐ Cliff ☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope ☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☒ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine
--

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC (DRY - MESIC) : MESIC)
☐ Intermittently flooded Permanently flooded Semipermanently flooded Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) Saturated (e.g. bogs, perennial seeps) Unknown Irregularly flooded Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

May have been cleared during Civil War.

Soil Texture:

☐ Sand Peat ☒ Silt loam Muck
☐ Sandy loam Loam Clay loam Clay

Drainage:

☐ Rapidly drained Moderately well drained Somewhat poorly drained
☒ Well drained Poorly drained Very poorly drained

Ground cover

☐ % Bedrock 94 % Litter, duff % Other
☐ % Large rocks (cobbles, boulders >10cm) 2 % Wood (> 1 cm)
☐ % Small rocks (gravel, 0.2-10 cm) % Water
☐ % Sand (0.1-2 mm) 4 % Bare soil

Leaf type:

☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☒ Evergreen
☐ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☐ logging fire Hydrologic
☐ erosion trails/roads Agriculture
☐ grazing/browsing wind/ice damage Old Growth
☐ pine bark beetle exotic plants Fire Suppression
☐ dogwood anthr ORV

Disturbance and animal use comments:

Very little exotic plant cover
 relative to other plots at
 Vicksburg NMP.

NPS GULF COAST PROJECT: Plot Sampling Form

VICK. 21

Page 3

County: Warren Park: NATR VICK Plot Code: V37 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Quercus nigra - 30%, Quercus muhlenbergii - 20%, Quercus rubra - 10%, Quercus velutina - 20%	.5-1m	10%
Understory T3	15-20m	70%	Quercus muhlenbergii - 20%, Sassafras albidum - 20%	1-2m	20%
Tall shrub S1	2-5m	50%	Hydrangea quercifolia - 20%	2-5m	30%
Short shrub S2	.5-1m	40%	Toxicodendron radicans - 20%	5-10m	40%
Herbaceous	-	20%	Andropogon glaucus - 10%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana		30%	Vitis cinerea - 20%, Toxicodendron radicans - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	6	6	5	2					7	Quer muh			1 trace
	6	5		1					6	Quer vel			2 0.1-1%
	6	5							6	Quer rub			3 1-2%
	7	5	5	3					7	Quer nig			4 2-5%
	5	6	4	2					6	Sassa alb			5 5-10%
			5	5					5	Ulmus ala			6 10-25%
			4	2					4	Prun ser			7 25-50%
				6			5		6	Toxi rad			8 50-75%
		5	4	2					5	Cary car			9 75-95%
		4	4	3					5	Corn flo			10 > 95%
							8		3	Bign cap			
			4						4	Juni vir			
					2				2	Poly ac			
			3	3					3	Cete can			
			3	2					3	Fran car			
					5				5	Ann gig			
				1					1	Prun car			

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.21

Page 4

County: Warren Park: NATR VICK Plot Code: V37 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
		4		2					4	Tili amer var. car		
							3		3	Part qui		
					2				2	Aspl pla		
							2		2	Bete sca		
		2							2	Frax ame		
6	5	4							6	Ligu sty		
				2					2	hond ben		
					2				2	Sani can		
					2				2	Cyno vir		
				1					1	Aral spi		
					2				2	Dum per		
							6		6	Viti cin		
					1				1	Trac dit		
			6	3					6	Hydr que		
			4	1					4	Moru rub		
				2					2	Dios vir		
							2		2	Smil gla		
					1				1	Aris dra		
							3		3	Smil sma		
							4		4	honi jap		
				2					2	Corn dru		
			4	2					4	Ulm rub		
							2		2	Viti rot		

Cover classes

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub

(>1m; to 5m)

S2 Short Shrub

(< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.22

Page 1

County: Warren Park: NATR VICK Plot Code: V41 State: AL MS TN Location org: NPSProvisional community name Liquidambar styraciflua - Carya illinoensis - Quercus nigra Forest

Classified community name

Classifier CWN Date _____ NVC ELCODE CEGL004122Survey date: 9/11/04 Surveyors initials: AS, ELTagged tree is a CERT LAE of 21 cm dbh with tag # 44 Center of 20 x 50m plot is at a bearing of 270 degrees and 4 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

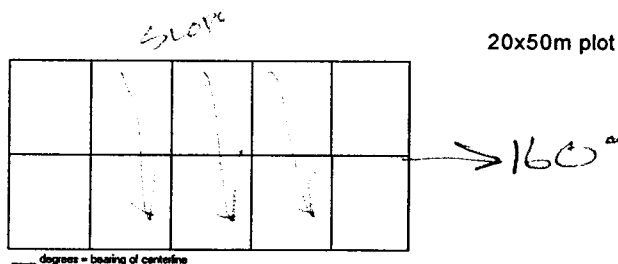
ON UNION AVE TRAVELLING W THEN NW. STOP ± 110 m
BEFORE ^{LEONARD} GRAY MONUMENT TO THE 46th INFANTRY AT HIGH
PT IN RD. HEAD ~ E UPSLOPE TO GPS

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? ☐ YES ☐ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 43-46

Description of pictures (N, E & W from GPS point at middle of plot): _____

Select one: UTM OR Lat/long (If lat/long, then values are 32.37644 N -90.85434 W)GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD27 UTM Zone: 15 16GPS Unit ID _____ GPS file name V41 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 200 Coordinate accuracy 13 m / ft DOP 3.3 # sats 4

Community Survey

Page 1

County: _____ Park: NATR (VICK) Plot Code: V41 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>29</u> ° _____ % ___ Flat 0° 0 % ___ Gentle 0-5° 1-9 % ___ Moderate 6-14° 10-25 % ___ Somewhat steep 15-25° 26-49 % ☒ Steep 27-45° 50-100 % ___ Very steep 45-69° 101-275 % ___ Abrupt 70-100° 276-300 % ___ overhng/shltd >100° >300 %	Measured Aspect <u>250</u> ° (N=0°) ___ Flat _____ SE 113-157° ___ Variable _____ S 158-202° ___ N 338-22° _____ SW 203-247° ___ NE 23-67° ☒ W 248-292° ___ E 68-112° _____ NW 293-337°	Topographic Position ___ Interfluv (Ridge/summit/crest) ___ Toeslope ___ High Slope (upper/convex slope) ☒ Midslope ___ Low level (terrace) ___ Lowslope (lower/footslope) ___ Channel bed Cowardin System ☒ Upland ___ Palustrine ___ Estuarine ___ Lacustrine ___ Riverine
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Landform (check most applicable) ___ Alluvial flat ___ Alluvial terrace ___ Bald ___ Bank ___ Bar ___ Bench ___ Bottomlands ___ Cliff ___ Cove ___ Depression ___ Draw ___ Exogenous dome ___ Floodplain ___ Gap ___ Gorge ___ Hillslope bedrock outcrop ☒ Midslope ___ Nose slope ___ Ridge ___ Ridgetop bedrock outcrop ___ Saddle ___ Seep ___ Toe slope ___ Slope ___ Streambed ___ Streamhead ___ Periglacial boulderfield ___ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC (MESIC)
 ___ Intermittently flooded ___ Permanently flooded ___ Semipermanently flooded ___ Temporarily Flooded (e.g. floodplains)
 ___ Seasonally Flooded (e.g. seasonal ponds) ___ Saturated (e.g. bogs, perennial seeps) ___ Unknown ___ Irregularly flooded ___ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: SURPRISINGLY LITTLE NO EROSION FOR SUCH A STEEP SLOPE & LOESS SOIL.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture: ___ Sand ___ Peat ☒ Silt loam ___ Muck ___ Sandy loam ___ Loam ___ Clay loam ___ Clay	Drainage: ___ Rapidly drained ___ Moderately well drained ___ Somewhat poorly drained ☒ Well drained ___ Poorly drained ___ Very poorly drained
--	--

Ground cover

___ % Bedrock
 ___ % Large rocks (cobbles, boulders >10cm)
 ___ % Small rocks (gravel, 0.2-10 cm)
 ___ % Sand (0.1-2 mm)
10 % Litter, duff
5 % Wood (> 1 cm)
5 % Water
5 % Bare soil
 ___ % Other _____

Leaf type: ☒ Broad-leaved ___ Needle-leaved ___ Microphyllous ___ Graminoid ___ Broad-leaved herbaceous ___ Pteridophyte ___ Extremely xeromorphic ___ Mixed	Leaf phenology (dominant stratum) ☒ Evergreen ___ Cold-deciduous ___ Drought-deciduous ___ Mixed evergreen-cold-deciduous ___ Mixed evergreen drought deciduous ___ Herb - Annual ___ Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) ___ Woodland (open tree canopy) ___ Shrubland ___ Dwarf Shrubland ___ Herbaceous (less than 25% woody layers) ___ Nonvascular ___ Sparse Vegetation
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Natural and Anthropogenic Disturbance ___ logging ___ fire ___ Hydrologic ___ erosion ___ trails/roads ___ Agriculture ___ grazing/browsing ___ wind/ice damage ___ Old Growth ___ pine bark beetle ☒ exotic plants ___ Fire Suppression ___ dogwood anthr ___ ORV	Disturbance and animal use comments: Long-term
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County: Warren Park: NATR VICK Plot Code: V41 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Liquidambar styraciflua - 30%, Celtis laevigata - 20%, Gleditsia triacanthos - 20%	.5-1m	10%
Understory T3	15-20m	30%	Celtis laevigata - 20%	1-2m	20%
Tall shrub S1	2-5m	70%	Ligustrum sinense - 30%	2-5m	30%
Short shrub S2	.5-1m	30%	Various, no particular species appears dominant, total = 30%	5-10m	40%
Herbaceous	—	40%	Arundinaria gigantea - 40%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	60%	Lonicera japonica - 50%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
7									7	LIQU STY			1 trace
6	6	3							7	CELT lae			2 0.1-1%
		3							3	PRUN SER			3 1-2%
				7					7	ARUN gig			4 2-5%
							8		8	LONI JAP			5 5-10%
				7					1	ASIM TRI			6 10-25%
		4							4	QUER SHU			7 25-50%
	6	4							6	ULMU rub			8 50-75%
	6			1					6	GLED tri			9 75-95%
		3							3	HEX dec			10 >95%
				3			3		4	TOXI rad			
		4		2					4	PRUN car			
		3		3					5	ACER neg			
		7		2					2	QUER nig			
		7		3					7	LIGU sin			
6				1					6	CORY ill			
		3							3	OSTR vir			

VICK.22

County: Wagon Park: NATR VICK Plot Code: V41 State: AL MS TN Location org: NPS

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
							5		5	Viti cin		
					2				2	Geum can		
			2						2	Morv rub		
		4							4	Over pay		
				1					1	Care csp		
				2					2	Opl set		
				1					1	Jugl nig		
							2		2	Smil bnd		
					2				2	Maclen sp.		
							2		2	Bign cap		
			4	2					4	Over mbe		

Cover classes	
1.	trace
2.	0.1-1%
3.	1-2%
4.	2-5%
5.	5-10%
6.	10-25%
7.	25-50%
8.	50-75%
9.	75-95%
10.	>95%

E Epiphytes

Page 4

VICK.23

NPS GULF COAST PROJECT: Plot Sampling Form

Page 1

County: Warren Park: NATR VICK Plot Code: V46 State: AL MS TN Location org: NPSProvisional community name Liquidambar styraciflua - Carya illinoensis - Quercus nigra Forest

Classified community name

Classifier CWN Date _____ NVC EL CODE CEGL004122Survey date: 9/11/04 Surveyors initials: AS, ELTagged tree is a Quercus of 19.5 cm dbh with tag # 43. Center of 20 x 50m plot is at a bearing of 345 degrees and 1.5 m from tree. SHUNARD OAK

Directions to tag tree (including any notes on best access route, and mile marker):

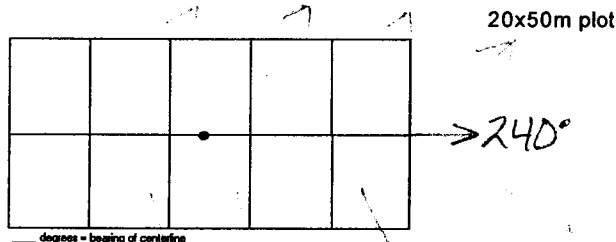
FROM BRASSY AREA ON UNION AVENUE HEADING N, ~20m
E of MONUMENT to IOWA 30th INFANTRY ENTER WOODS TO SW
(± 230°), & FOLLOW ^{RIDGE OF} NOSE SLOPE OUT TO GPS POINT

Time taken to walk to plot: 5

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? ☐ YES ☐ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 39-42Description of pictures (N, E & W from GPS point at middle of plot) : _____Select one: UTM OR Lat/long (If lat/long, then values are 32.37530 N -90.84824 WNAD 83GPS Techniques/Equipment: Garmin II+ Garmin V Datum (pick one) NAD 83 OR NAD 27 UTM Zone: 15 16GPS Unit ID _____ GPS file name V46 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 100 Coordinate accuracy 50 m / ft DOP 1.7 # sats 6

Community Survey

Page 1

County: _____ Park: NATR VICK Plot Code: V46 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>10</u> ° <u> </u> % — Flat 0 ° 0 % — Gentle 0-5 ° 1-9 % ☒ Moderate 6-14 ° 10-25 % — Somewhat steep 15-25 ° 26-49 % — Steep 27-45 ° 50-100 % — Very steep 45-69 ° 101-275 % — Abrupt 70-100 ° 276-300 % — overhng/shltd >100 ° >300 %	Measured Aspect <u>240</u> ° (N=0 °) — Flat — SE 113-157 ° — Variable — S 158-202 ° — N 338-22 ° ☒ SW 203-247 ° — NE 23-67 ° — W 248-292 ° — E 68-112 ° — NW 293-337 °	Topographic Position ☒ Interfluv (Ridge/summit/crest) — Toeslope — High Slope (upper/convex slope) — Midslope — Low level (terrace) — Lowslope (lower/footslope) — Channel bed Cowardin System ☒ Upland — Palustrine — Estuarine — Lacustrine — Riverine
--	--	---

Landform (check most applicable)

- | | | |
|---|--|--|
| ☐ Alluvial flat
☐ Alluvial terrace
☐ Bald
☐ Bank
☐ Bar
☐ Bench
☐ Bottomlands
☐ Cliff | ☐ Cove
☐ Depression
☐ Draw
☐ Exogenous dome
☐ Floodplain
☐ Gap
☐ Gorge
☐ Hillslope bedrock outcrop
☐ Midslope
☒ Nose slope | ☐ Ridge
☐ Ridgetop bedrock outcrop
☐ Saddle
☐ Seep
☐ Toe slope
☐ Slope
☐ Streambed
☐ Streamhead
☐ Periglacial boulderfield
☐ Ravine |
|---|--|--|

Rock types present:

Hydrologic Regime (check only for wetlands)

- ☒ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: NO EVIDENCE OF EROSION

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

LONG NOSE CREEK WITH VARYING SLOPE SIDES.

Soil Texture:

- ☐ Sand ☐ Peat ☒ Silt loam ☐ Muck
☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay

Drainage:

- ☐ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☒ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

- ☐ % Bedrock 90 % Litter, duff ☐ % Other _____
☐ % Large rocks (cobbles, boulders >10cm) 10 % Wood (> 1 cm)
☐ % Small rocks (gravel, 0.2-10 cm) ☐ % Water
☐ % Sand (0.1-2 mm) ☐ % Bare soil

Leaf type:

- ☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

- ☐ Evergreen
☒ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

- ☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

- ☐ logging ☐ fire ☐ Hydrologic
☐ erosion ☐ trails/roads ☐ Agriculture
☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth
☐ pine bark beetle ☒ exotic plants ☐ Fire Suppression
☐ dogwood anthr ☐ ORV

Disturbance and animal use comments:

HONEY SUCKER, TRIFOLIUM ORANGE, PRINCE

County: Ward Park: NATR VICK Plot Code: V46 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Liquidambar styraciflua - 40%, Fraxinus americana - 20%, Quercus nigra - 20%	.5-1m	10%
Understory T3	15-20m	60%	Quercus muhlenbergii - 30%	1-2m	20%
Tall shrub S1	2-5m	50%	Cercis canadensis - 20%, Ulmus rubra - 10%	2-5m	30%
Short shrub S2	.5-1m	50%	Toxicodendron radicans - 30%	5-10m	40%
Herbaceous	-	40%	Aster sp. - 30%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	40%	Lonicera japonica - 30%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3: Subcanopy | S1: Tall Shrub (> 1m; to 5m) | S2: Short Shrub (< 1m) | H: Herbaceous | N: Nonvascular | V: Vines (lianas) | E: Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	6	4	3						6	Frax ame			1 trace
	6	4	3						6	Quer nig			2 0.1-1%
		7	5						7	Quer muh			3 1-2%
	4		1						4	Quer shu			4 2-5%
	4								4	Quer par			5 5-10%
				7					7	Astr gal			6 10-25%
				3					3	Rubus id			7 25-50%
						7			7	Loni jap			8 50-75%
	7	3							7	Liqu sty			9 75-95%
			7			5			7	Toxi rad			10 >95%
										Rubus fl			
				2					2	Aspl pla			
		4	3						6	Cerc can			
		5	3						5	Ulmus rub			
	4								4	Juni vlr			
						5			5	Viti cin			
						4			4	Bign cap			

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.23

Page 4

County: Warren Park: NATR VICK Plot Code: V46 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
							3		3	Part qui		
							3		3	Bere sca		
			3	1					3	Cany cor		
			4	2					4	Ligu sin		
		5	2	2					6	Sass alb		
			2	2					3	Celt lae		
			5	2					5	Fran car		
			4	2					4	Itsim tri		
			3						3	Ulmv ala		
			4						4	Ponc tri		
					2				2	Greum can		
			4	3					4	Prun car		
			3						3	Moru rub		
				1					1	Poun ser		
		3							3	Liri tul		
			4	2					4	Corn dru		

Cover classes

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

- T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub
(>1m; to 5m)
S2 Short Shrub
(< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

County: Warren Park: NATR VICK Plot Code: V47 State: AL MS TN Location org: NPSProvisional community name Liquidambar styraciflua - Carya illinoensis - Quercus nigra Forest

Classified community name

Classifier CWN Date _____ NVC ELCODE CEGL004122Survey date: 9/2/2004 Surveyors initials: CWN & ASTagged tree is a Sweetgum of 180 cm dbh with tag # 33 Center of 20 x 50m plot is at a bearing of 210 degrees and 4 m from tree. Tag is on west side of tree (upslope side)

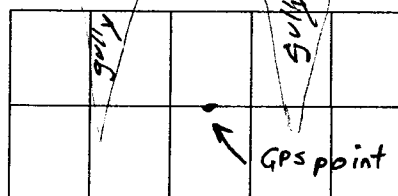
Directions to tag tree (including any notes on best access route, and mile marker):

North Loop Road, East side - past Wisconsin statue
Park where road turns from east back to NE.
Plot is on east facing steep slope east just east of
Loop Road.Time taken to walk to plot: 5 min.

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES NO - If not, depict below

PLOT LOCATION (Below show general plot location)

(Private land cleared)gully

20x50m plot

degrees = bearing of centerline

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 107-110

Description of pictures (N, E & W from GPS point at middle of plot):

Select one: UTM OR Lat/long (If lat/long, then values are 32.36523 N 090.83885 W)WGS 84GPS Techniques/Equipment: Garmin III+ Garmin VDatum (pick one) NAD 83 OR NAD 27UTM Zone: 15 16GPS Unit ID 3 GPS file name V47 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy 6 m / ft DOP 1.2 # sats 6

County: Warren Park: NATR VICK Plot Code: V47 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>22</u> ° <u> </u> % ☐ Flat 0 ° 0 % ☐ Gentle 0-5 ° 1-9 % ☐ Moderate 6-14 ° 10-25 % ☒ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ ovrhng/shltd > 100 ° > 300 %	Measured Aspect <u>105</u> ° (N=0 °) ☐ Flat <u>SE</u> 113-157 ° ☐ Variable <u>S</u> 158-202 ° ☐ N 338-22 ° <u>SW</u> 203-247 ° ☐ NE 23-67 ° <u>W</u> 248-292 ° ☒ E 68-112 ° <u>NW</u> 293-337 °	Topographic Position ☐ Interfluv (Ridge/summit/crest) <u> </u> Toeslope ☒ High Slope (upper/convex slope) <u> </u> Low level (terrace) ☐ Midslope <u> </u> Channel bed ☐ Lowslope (lower/footslope) <u> </u>
Cowardin System ☒ Upland <u> </u> Palustrine ☐ Estuarine <u> </u> Lacustrine <u> </u> Riverine		

Landform (check most applicable)

- | | | |
|---|---|---|
| ☐ Alluvial flat
☐ Alluvial terrace
☐ Bald
☐ Bank
☐ Bar
☐ Bench
☐ Bottomlands
☐ Cliff | ☐ Cove
☐ Depression
☐ Draw
☐ Exogenous dome
☐ Floodplain
☐ Gap
☐ Gorge
☐ Hillslope bedrock outcrop
☐ Midslope
☐ Nose slope | ☐ Ridge
☐ Ridgetop bedrock outcrop
☐ Saddle
☐ Seep
☐ Toe slope
☒ Slope
☐ Streambed
☐ Streamhead
☐ Periglacial boulderfield
☐ Ravine |
|---|---|---|

Rock types present:

Hydrologic Regime (check only for wetlands)

- ☒ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded Permanently flooded Semipermanently flooded Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) Saturated (e.g. bogs, perennial seeps) Unknown Irregularly flooded Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Midstory is relatively free of exotic plants.

Soil Texture:

- ☐ Sand Peat ☒ Silt loam Muck
☐ Sandy loam Loam Clay loam Clay

Drainage:

- ☐ Rapidly drained Moderately well drained Somewhat poorly drained
☒ Well drained Poorly drained Very poorly drained

Ground cover

- % Bedrock 88 % Litter, duff % Other
 % Large rocks (cobbles, boulders > 10cm) 2 % Wood (> 1 cm)
 % Small rocks (gravel, 0.2-10 cm) % Water
 % Sand (0.1-2 mm) 10 % Bare soil

Leaf type:

- ☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

- ☐ Evergreen
☒ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

- ☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

- ☐ logging fire Hydrologic
☐ erosion trails/roads Agriculture
☐ grazing/browsing wind/ice damage Old Growth
☐ pine bark beetle exotic plants Fire Suppression
☐ dogwood anthr ORV

Disturbance and animal use comments:

Lonicera japonica

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.24

Page 3

County: Warren Park: NATR VICK Plot Code: V47 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Liquidambar styraciflua - 60%	.5-1m	10%
Understory T3	15-20m	60%	Liquidambar styraciflua - 20% Acer negundo - 20%	1-2m	20%
Tall shrub S1	2-5m	60%	Ulmus rubra - 10%, Cornus drummondii - 10% Quercus muhlenbergii - 10%, Hydrangea qu - 10%	2-5m	30%
Short shrub S2	.5-1m	60%	Toxicodendron radicans - 40%	5-10m	40%
Herbaceous	-	50%	Arandinaria gigantea - 40%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	40%	Vitis cinerea - 30%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
8	6	4	2						8	Liqu sty			1 trace
6		3	3						6	Quer nig			2 0.1-1%
	6	3	2						6	Acer neg			3 1-2%
6		6	3						7	Ulm rub			4 2-5%
		3							3	Frax car			5 5-10%
				7					7	Arun gla			6 10-25%
		3							3	Ponc for			7 25-50%
			1						1	Aslm tri			8 50-75%
				2					2	Poly acr			9 75-95%
				2					2	Cyno vir			10 >95%
	4	3							4	Tilia ame var. car			
			7				4		7	Toxi rad			
		3	4						5	Corn dr			
							2		2	Smil bon			
	4	3							6	Quer muc			
							4		4	Loni jap			
							2		2	Parl qui			

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.24

Page 4

County: Warr Park: NATR (VICK) Plot Code: V47 State: AL (MS) TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
			2						2	Dios vir		
			2	2					4	Ligu sin		
							3		3	Smil sma		
		4	4						8	Carp car		
			3						3	Prun ser		
			3						3	Celt lac		
				2					2	Cerc can		
	4			2					4	Cary cor		
				2					2	Prun car		
							7		7	Viti cin		
			5	2					7	Hydr que		
			4						4	Corn flo		
					2				2	Dich pos		
							2		2	Smil tam		
							2		2	Cela sca		
								1	1	Lact flo		
										Pass lot		
					2				2	Opli set		
				1					1	Side lyc		
					1				1	Phry lep		
				2					2	Samb can		
					2				2	Cyst pro		
					2				2	Care dig		
					1				1	Eupa ser		
			3						3	Moru rub		
					2				2	Sani can		
					2				2	Batr vir		
					2				2	Desm per		
					1				1	Tris tri		
			2						2	Lind ben		
							2		2	Viti rot		
					2				2	Amph bra		
					1				1	Care oxy		
			3						3	Mogh gra		

Cover classes	
1.	trace
2.	0.1-1%
3.	1-2%
4.	2-5%
5.	5-10%
6.	10-25%
7.	25-50%
8.	50-75%
9.	75-95%
10.	>95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub
(> 1m; to 5m)
S2 Short Shrub
(< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

County: Warren Park: NATR (VICK) Plot Code: V50 State: AL (MS) TN Location org: NPSProvisional community name Quercus pagoda - Quercus nigra Forest

Classified community name _____

Classifier CWN Date _____ NVC EL CODE CEGL004109Survey date: 8/31/2004 Surveyors initials: CWN & AS & Kurt FooteTagged tree is a water oak of 59 cm dbh with tag # 19. Center of 20 x 50m plot is at a bearing of 250° degrees and 3.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

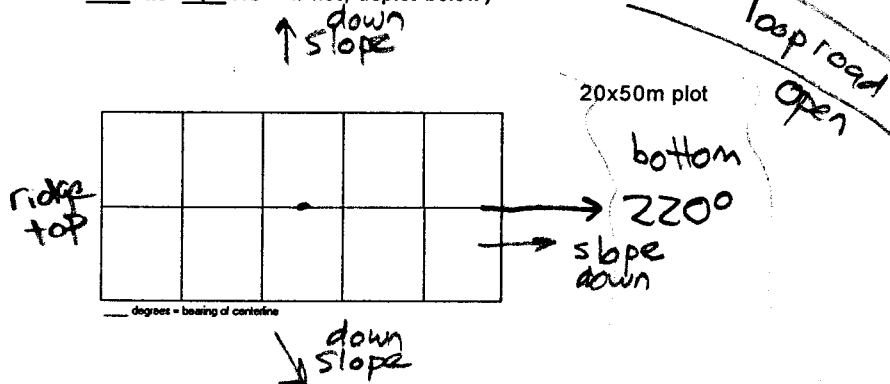
South loop, Confederate side, continue just past
Indiana monument and bridge across ravine. Plot is
on SW facing slope (a nose slope) north of bridge
on east side of ravine. Tag tree is upslope
next to another large oak.

Time taken to walk to plot: 7 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? ☐ YES ☒ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA (10 HA) 10-100HA > 100HAPIC # 32-35

Description of pictures (N, E, S & W from GPS point at middle of plot): _____

Select one: UTM OR (Lat/long) (If lat/long, then values are 32.33341° N - 090.86124° W)GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) WGS 84 NAD 83 OR NAD 27 UTM Zone: 15 16GPS Unit ID 3 GPS file name V50 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 221 Coordinate accuracy 7 m / ft DOP 2.0 # sats 5

County: Warren Park: NATR VICK Plot Code: V50 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>13</u> ° <u> </u> % ☐ Flat 0 ° 0 % ☐ Gentle 0-5 ° 1-9 % ☒ Moderate 6-14 ° 10-25 % ☐ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ ovrhng/shltd >100 ° >300 %	Measured Aspect <u>215</u> ° (N=0 °) ☐ Flat <u>SE</u> 113-157 ° ☐ Variable <u>S</u> 158-202 ° ☐ N 338-22 ° ☒ SW 203-247 ° ☐ NE 23-67 ° ☐ W 248-292 ° ☐ E 68-112 ° ☐ NW 293-337 °	Topographic Position ☐ Interfluv (Ridge/summit/crest) ☐ Toeslope ☒ High Slope (upper/convex slope) ☒ Midslope ☐ Low level (terrace) ☐ Lowslope (lower/footslope) ☐ Channel bed Cowardin System ☒ Upland ☐ Palustrine ☐ Estuarine ☐ Lacustrine ☐ Riverine
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Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☐ Bottomlands ☐ Cliff ☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☒ Nose slope	☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☐ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine
--	--

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Was cleared during the civil war.

Soil Texture: ☐ Sand ☐ Peat ☒ Silt loam ☐ Muck ☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay	Drainage: ☐ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained ☒ Well drained ☐ Poorly drained ☐ Very poorly drained
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Ground cover ☐ % Bedrock ☐ % Large rocks (cobbles, boulders >10cm) ☐ % Small rocks (gravel, 0.2-10 cm) ☐ % Sand (0.1-2 mm)	☐ % Litter, duff ☐ % Wood (> 1 cm) ☐ % Water ☒ 85 % Bare soil	☐ % Other
---	---	----------------------------------

Leaf type: ☒ Broad-leaved ☐ Needle-leaved ☐ Microphyllous ☐ Graminoid ☐ Broad-leaved herbaceous ☐ Pteridophyte ☐ Extremely xeromorphic ☐ Mixed	Leaf phenology (dominant stratum) ☐ Evergreen ☐ Cold-deciduous ☐ Drought-deciduous ☒ Mixed evergreen-cold-deciduous ☐ Mixed evergreen drought deciduous ☐ Herb - Annual ☐ Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) ☐ Woodland (open tree canopy) ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous (less than 25% woody layers) ☐ Nonvascular ☐ Sparse Vegetation
--	--	--

Natural and Anthropogenic Disturbance ☐ logging ☐ fire ☐ Hydrologic ☐ erosion ☐ trails/roads ☐ Agriculture ☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth ☐ pine bark beetle ☒ Exotic plants ☐ Fire Suppression ☐ dogwood anthr ☐ ORV	Disturbance and animal use comments: exotic plants - Lonicera japonica Ligustrum sinense
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NPS GULF COAST PROJECT: Plot Sampling Form

VICK.25

Page 3

County: Walton Park: NATR VICK Plot Code: 150 State: AL (MS) TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Quercus nigra - 60%	.5-1m	10%
Understory T3	15-20m	40%	Quercus nigra - 10%, Ulmus rubra - 10%	1-2m	20%
Tall shrub S1	2-5m	60%	Cornus drummondii - 20%, Morus rubra - 10%, Ulmus rubra - 10%	2-5m	30%
Short shrub S2	.5-1m	30%	Cornus drummondii - 5%	5-10m	40%
Herbaceous	-	10%	Rubus argutus - 5%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	40%	Lonicera japonica - 20%, Vitis cinerea - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	6	4		1					6	Querc pag			1 trace
	8	5		3					8	Querc nig			2 0.1-1%
		4		2					4	Celt laes			3 1-2%
		5		3					6	Ulmus rub			4 2-5%
			5	1					5	Morus rub			5 5-10%
			6	4					6	Cornus dr			6 10-25%
			9	2					4	Liana sin			7 25-50%
							3		3	Ampe arb			8 50-75%
							6		6	Lonic jap			9 75-95%
							3		3	Coccol car			10 > 95%
			4	2					4	Prun car			
					2				2	Eupa ser			
					2				2	Aspl pla			
							3		3	Toxi rad			
			4	3					4	Fran car			
					1				1	Carex sp.			
					1				1	Sani car			

VICK.25

County: Waller Park: NATR (VICK) Plot Code: V50 State: AL MS TN Location org: NPS

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
				2				2	2	Cream can		
							3	3	3	Big cap		
				2				2	2	Matchea sp.		
							5	5	5	Part qui		
	4		3					4	4	Prun ser		
				2				2	2	Qspl set		
			3	3				4	4	Acce nen		
				2				2	2	Phyto ame		
			3					3	3	Liri tel		
				4				4	4	Rubv ary		
			4	3				4	4	Vlmv & th		
							5	5	5	Viti cin		
	3	2	2					4	4	Caryill		
			1					1	1	Samb can		
			3					3	3	Liqu sty		
				1				1	1	Gled tri		
					1			1	1	Peri fru		
							2	2	2	Viti rot		
				2				2	2	Trac dif		
							3	3	3	Besc sca		
			3					3	3	Side lyc		
				2				2	2	Bach cyl		
				1				1	1	Nand dom		
					1			1	1	hart Ato		
				2				2	2	Dios vir		

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

E Epiphytes

Community Survey
Page 4

County: Warren Park: NATR (VICK) Plot Code: V51 State: AL (MS) TN Location org: NPSProvisional community name Ulmus americana - Robinia pseudoacaciaClassified community name Robinia pseudoacacia Forest
Classifier CWN Date 9/16/2004 NVC ELCODE 7279Survey date: 8/31/2004 Surveyors initials: AS & CWNTagged tree is a box-elder of 18 cm dbh with tag # 20. Center of 20 x 50m plot is at a bearing of 290 degrees and 2.5 m from tree.
Tag on E. side of tree.

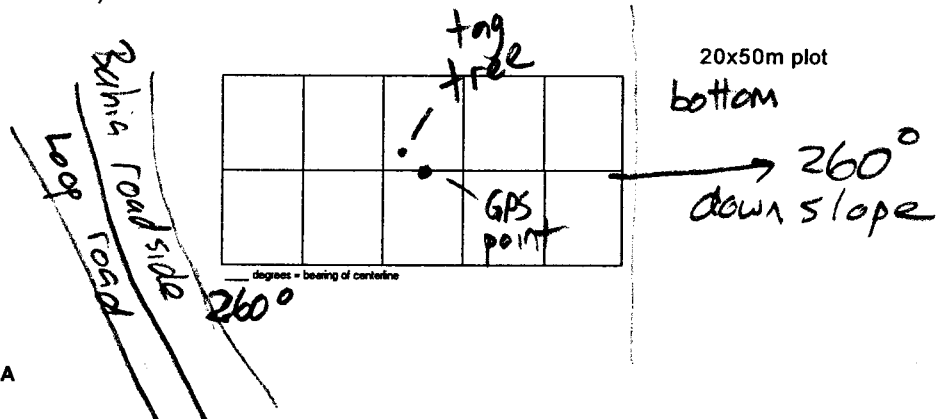
Directions to tag tree (including any notes on best access route, and mile marker):

South loop road, Union (east) side. Past Hoveys
Approach, ~~to~~ south of road where road goes SE, just
before road turns back to north.
Go south into woods, about 30 m.Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? ☒ YES ☐ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 44-47

Description of pictures (N,E,S & W from GPS point at middle of plot): _____

Select one: UTM OR (Lat/long) (If lat/long, then values are 32.33574 N 090.85893 W)GPS Techniques/Equipment: Garmin III Garmin V Datum (pick one) NAD 83 OR NAD27 UTM Zone: 15 16GPS Unit ID 3 GPS file name V51 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 405 Coordinate accuracy 7 m / ft DOP 2.1 # sats 6

County: Warren Park: NATR VICK Plot Code: V51 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>16</u> ° <u> </u> % ☐ Flat 0 ° 0 % ☐ Gentle 0-5 ° 1-9 % ☐ Moderate 6-14 ° 10-25 % ☒ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ Overhanging/shielded >100 ° >300 %	Measured Aspect <u>260</u> ° (N=0 °) ☐ Flat SE 113-157 ° ☐ Variable S 158-202 ° ☐ N 338-22 ° SW 203-247 ° ☐ NE 23-67 ° ☒ W 248-292 ° ☐ E 68-112 ° NW 293-337 °	Topographic Position ☐ Interfluvium (Ridge/summit/crest) ☐ Toeslope ☐ High Slope (upper/convex slope) ☒ Midslope ☐ Low level (terrace) ☐ Lowslope (lower/footslope) ☐ Channel bed Cowardin System ☒ Upland ☐ Palustrine ☐ Estuarine ☐ Lacustrine ☐ Riverine
--	---	--

Landform (check most applicable)

☐ Alluvial flat
☐ Alluvial terrace
☐ Bald
☐ Bank
☐ Bar
☐ Bench
☐ Bottomlands
☐ Cliff

☐ Cove
☐ Depression
☐ Draw
☐ Exogenous dome
☐ Floodplain
☐ Gap
☐ Gorge
☐ Hillslope bedrock outcrop
☐ Midslope
☐ Nose slope

☐ Ridge
☐ Ridgetop bedrock outcrop
☐ Saddle
☐ Seep
☐ Toe slope
☒ Slope
☐ Streambed
☐ Streamhead
☐ Periglacial boulderfield
☐ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC DRY - MESIC: MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Was clear during the civil war

Soil Texture:

☐ Sand ☐ Peat ☒ Silt loam ☐ Muck
☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay

Drainage:

☒ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☒ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

☐ % Bedrock
☐ % Large rocks (cobbles, boulders > 10cm)
☐ % Small rocks (gravel, 0.2-10 cm)
☐ % Sand (0.1-2 mm)
60 % Litter, duff
5 % Wood (> 1 cm)
 % Water
35 % Bare soil

Leaf type:

☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☐ Evergreen
☒ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☐ logging ☐ fire ☐ Hydrologic
☐ erosion ☐ trails/roads ☐ Agriculture
☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth
☐ pine bark beetle ☒ Exotic plants ☐ Fire Suppression
☐ dogwood anthr ☐ ORV

Disturbance and animal use comments:

Ligustrum sinense

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.26

Page 3

County: Warren Park: NATR VICK Plot Code: V51 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	80%	Ulmus americana - 50%	.5-1m	10%
Understory T3	15-20m	90%	Celtis laevigata - 30%, Broussonetia pap. - 30%	1-2m	20%
Tall shrub S1	2-5m	90%	Ligustrum sinense - 80%	2-5m	30%
Short shrub S2	.5-1m	30%	Ligustrum sinense - 10%	5-10m	40%
Herbaceous	—	5%	Herbs very sparse	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	30%	Vitis cinerea - 10%, Lonicera japonica - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	7		3						7	Ulmus ame			1 trace
	7								7	Robin pse			2 0.1-1%
		7	3						7	Celtis lae			3 1-2%
		6	2						6	Acer neg			4 2-5%
		5	3	3					6	Prun car			5 5-10%
		7	6	3					7	Brou pap			6 10-25%
							3		3	Toxi rad			7 25-50%
							5		5	Loni jap			8 50-75%
							3		3	Bign cap			9 75-95%
							4		4	Coccol car			10 >95%
			4	3					4	Querc nig			
			9	5					9	Ligu sine			
	5								5	Querc pag			
				1					1	Cary ill			
							2		2	Ampe arb			
				1					1	Phyto ame			
			2						2	Samb can			

VICK.26

County: Warren Park: NATR (VICK) Plot Code: V51 State: AL (MS) TN Location org: NPS

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
					2				2	Geum can		
							4		4	Part qui		
			3						3	Mamm gra		
					2				2	Ophi sot		
					2				2	Eupa ser		
							5		5	Viti cin		
							1		1	Smil ala		
					2				2	Athy Fel		
					1				1	Asop pla		
					3		2		3	Hede bel		

Cover classes	
1.	trace
2.	0.1-1%
3.	1-2%
4.	2-5%
5.	5-10%
6.	10-25%
7.	25-50%
8.	50-75%
9.	75-95%
10.	> 95%

E Epiphytes

Page 4

County: Warren Park: NATR VICK Plot Code: VS1A State: AL MS TN Location org: NPSProvisional community name Paper mulberry Broussonetia papyrifera Forest

Classified community name

Classifier CEGL Date _____ NVC ELCODE CEGL004106Survey date: 8/31/2004 Surveyors initials: CWN&ASTagged tree is a Paper mulberry 15 cm dbh with tag # 21 Center of 10x30 ~~20x50m~~ plot is at a bearing of 180° degrees and 4 m from tree.

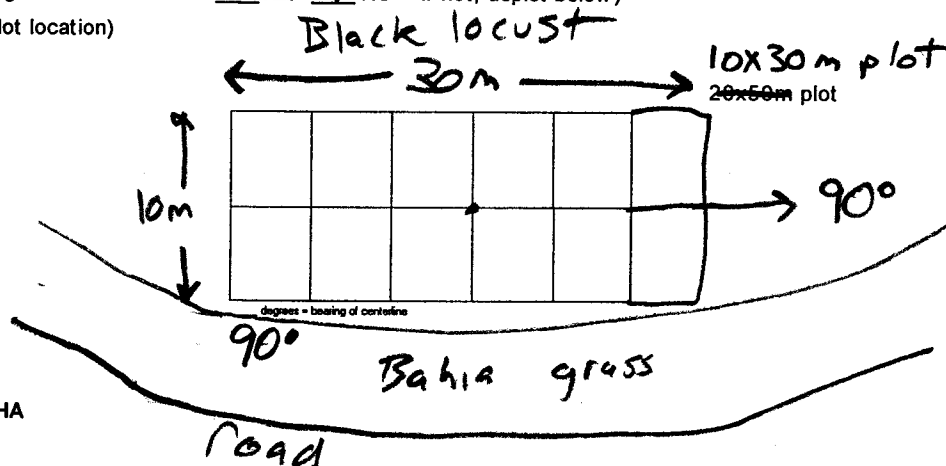
Directions to tag tree (including any notes on best access route, and mile marker):

On N. side of South Loop Road, Union side.
Past Howays Approach where road goes SE,
just before road turns to N.Time taken to walk to plot: 2 min

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? YES ☒ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 48-51, 52

Description of pictures (N,E,S & W from GPS point at middle of plot):

48(N), 49(E), 50(S), 51(W), 52 From South.
towards plot centerSelect one: UTM OR Lat/long (If lat/long, then values are 32.33586 N -090.85806 W)GPS Techniques/Equipment: Garmin III+ Garmin V Datum(pick one) NAD 83 OR NAD 27 UTM Zone: 15 16GPS Unit ID 3 GPS file name VS1A (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 165 Coordinate accuracy 7 m / ft DOP 1.7 # sats 5

County: Warren Park: NATR VICK Plot Code: V51A State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ° % — Flat 0 ° 0 % — Gentle 0-5 ° 1-9 % ☒ Moderate 6-14 ° 10-25 % — Somewhat steep 15-25 ° 26-49 % — Steep 27-45 ° 50-100 % — Very steep 45-69 ° 101-275 % — Abrupt 70-100 ° 276-300 % — overhng/shltd >100 ° >300 %	Measured Aspect ° (N=0 °) — Flat SE 113-157 ° — Variable ☒ S 158-202 ° — N 338-22 ° SW 203-247 ° — NE 23-67 ° W 248-292 ° — E 68-112 ° NW 293-337	Topographic Position — Interfluv (Ridge/summit/crest) Toeslope ☒ High Slope (upper/convex slope) — Midslope Low level (terrace) — Lowslope (lower/footslope) Channel bed Cowardin System ☒ Upland — Palustrine — Estuarine — Lacustrine — Riverine
---	---	---

Landform (check most applicable)

☐ Alluvial flat
☐ Alluvial terrace
☐ Bald
☐ Bank
☐ Bar
☐ Bench
☐ Bottomlands
☐ Cliff

☐ Cove
☐ Depression
☐ Draw
☐ Exogenous dome
☐ Floodplain
☐ Gap
☐ Gorge
☐ Hillslope bedrock outcrop
☐ Midslope
☐ Nose slope

☐ Ridge
☐ Ridgetop bedrock outcrop
☐ Saddle
☐ Seep
☐ Toe slope
☒ Slope
☐ Streambed
☐ Streamhead
☐ Periglacial boulderfield
☐ Ravine

Rock types present:

Hydrologic Regime (check only for wetland)

☒ Not a wetland (Upland: XERIC: ORY - MESIC: MESIC)
☐ Intermittently flooded — Permanently flooded — Semipermanently flooded — Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) — Saturated (e.g. bogs, perennial seeps) — Unknown — Irregularly flooded — Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

~~Succession~~ was cleared in past,
 including civil war, but also perhaps 1970s.

Soil Texture:

☐ Sand ☐ Peat ☒ Silt loam ☐ Muck
☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay

Drainage:

☐ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☒ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

☐ % Bedrock 55 % Litter, duff — % Other
☐ % Large rocks (cobbles, boulders > 10cm) 5 % Wood (> 1 cm)
☐ % Small rocks (gravel, 0.2-10 cm) — % Water
☐ % Sand (0.1-2 mm) 40 % Bare soil

Leaf type:

☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☒ Evergreen
☒ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☐ logging ☐ fire ☐ Hydrologic
☐ erosion ☐ trails/roads ☐ Agriculture
☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth
☐ pine bark beetle ☒ Exotic plants ☐ Fire Suppression
☐ dogwood anthr ☒ ORV

Disturbance and animal use comments:

VICK.27

County: Warren Park: NATR VICK Plot Code: V51A State: AL MS TN Location org: NPS

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	5-10m	90%	Broussonetia papyrifera - 80%	.5-1m	10%
Understory T3	2-5m	60%	Broussonetia papyrifera - 30%	1-2m	20%
Tall shrub S1	1-2m	20%	Broussonetia papyrifera - 20%	2-5m	30%
Short shrub S2	.5-1m	20%	Broussonetia papyrifera - 10%	5-10m	40%
Herbaceous	—	5%	Mitella sp. - 5%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	5%	Vines are sparse - 5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

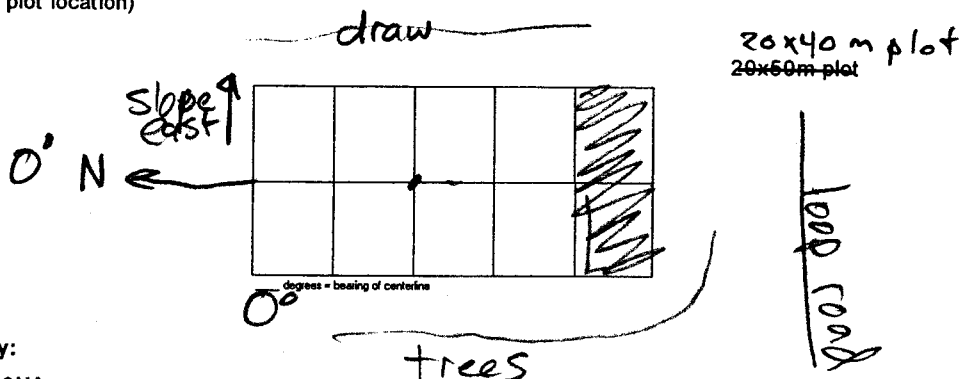
[illegible]

County: Warren Park: NATR VICK Plot Code: V53 State: AL MS TN Location org: NPSProvisional community name Kudzu VinelandClassified community name Pueraria montana var. lobata vine-shrublandClassifier CWN Date 8/31/04 NVC ELCODE 3882Survey date: 8/31/2004 Surveyors initials: AS & CWN & Kurt FooteTagged tree is a No tag tree of cm dbh with tag # . Center of 20 x 50m plot is at a bearing of degrees and m from tree.Directions to tag tree (including any notes on best access route, and mile marker): Confederate South loop
Kudzu Management Area, NW of open area by road
down hill and up opposite east facing slope.Time taken to walk to plot: 10 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES ☒ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 19-22Description of pictures (N, E & W from GPS point at middle of plot): Select one: UTM OR Lat/long (If lat/long, then values are 32.33861 N 090.86180 W)WGS 84GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD 27 UTM Zone: 15 16GPS Unit ID 3 GPS file name V53 (standard = First letter of park + # of plot (N04 or V04))Field UTM X m E Y m N Elevation m / ftAveraging performed (at least 120 observations)? 7 Coordinate accuracy 7 m / ft DOP 2.0 # sats 7

County: Walton Park: NATR VICK Plot Code: V53 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope _____ ° _____ % ___ Flat 0 ° 0 % ___ Gentle 0-5 ° 1-9 % ___ Moderate 6-14 ° 10-25 % ___ Somewhat steep 15-25 ° 26-49 % ☒ Steep 27-45 ° 50-100 % ___ Very steep 45-69 ° 101-275 % ___ Abrupt 70-100 ° 276-300 % ___ Overhanging/steep 100 ° > 300 %	Measured Aspect _____ ° (N=0 °) ___ Flat SE 113-157 ° ___ Variable S 158-202 ° ___ N 338-22 ° SW 203-247 ° ___ NE 23-67 ° W 248-292 ° ☒ E 68-112 ° NW 293-337 °	Topographic Position ___ Interfluvium (Ridge/summit/crest) ___ Toeslope ___ High Slope (upper/convex slope) ☒ Midslope ___ Low level (terrace) ___ Low slope (lower/footslope) ___ Channel bed Cowardin System ☒ Upland ___ Palustrine ___ Estuarine ___ Lacustrine ___ Riverine
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Landform (check most applicable)

___ Alluvial flat
 ___ Alluvial terrace
 ___ Bald
 ___ Bank
 ___ Bar
 ___ Bench
 ___ Bottomlands
 ___ Cliff

___ Cove
 ___ Depression
 ___ Draw
 ___ Exogenous dome
 ___ Floodplain
 ___ Gap
 ___ Gorge
 ___ Hillslope bedrock outcrop
 ___ Midslope
 ___ Nose slope

___ Ridge
 ___ Ridgetop bedrock outcrop
 ___ Saddle
 ___ Seep
☒ Toe slope
 ___ Slope
 ___ Streambed
 ___ Streamhead
 ___ Periglacial boulderfield
 ___ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC: DRY - MESIC: MESIC)
 ___ Intermittently flooded ___ Permanently flooded ___ Semipermanently flooded ___ Temporarily Flooded (e.g. floodplains)
 ___ Seasonally Flooded (e.g. seasonal ponds) ___ Saturated (e.g. bogs, perennial seeps) ___ Unknown ___ Irregularly flooded ___ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

dominated by kudzu treated with Roundup,
 Garlon 4 & transline (most recently 8/29/04).

Soil Texture:

___ Sand ___ Peat ___ Silt loam ___ Muck
 ___ Sandy loam ___ Loam ___ Clay loam ___ Clay

Drainage:

___ Rapidly drained ___ Moderately well drained ___ Somewhat poorly drained
☒ Well drained ___ Poorly drained ___ Very poorly drained

Ground cover

___ % Bedrock
 ___ % Large rocks (cobbles, boulders > 10cm)
 ___ % Small rocks (gravel, 0.2-10 cm)
 ___ % Sand (0.1-2 mm)
 80 % Litter, duff
 4 % Wood (> 1 cm)
 ___ % Water
 16 % Bare soil
 ___ % Other

Leaf type:

☒ Broad-leaved
 ___ Needle-leaved
 ___ Microphyllous
 ___ Graminoid
 ___ Broad-leaved herbaceous
 ___ Pteridophyte
 ___ Extremely xeromorphic
 ___ Mixed

Leaf phenology (dominant stratum)

___ Evergreen
☒ Cold-deciduous
 ___ Drought-deciduous
 ___ Mixed evergreen-cold-deciduous
 ___ Mixed evergreen drought deciduous
 ___ Herb - Annual
 ___ Herb - Perennial

Physiognomic Class

___ Forest (closed tree canopy)
 ___ Woodland (open tree canopy)
☒ Shrubland
 ___ Dwarf Shrubland
 ___ Herbaceous (less than 25% woody layers)
 ___ Nonvascular
 ___ Sparse Vegetation

Natural and Anthropogenic Disturbance

___ logging ___ fire ___ Hydrologic
☒ erosion ___ trails/roads ___ Agriculture
 ___ grazing/browsing ___ wind/ice damage ___ Old Growth
 ___ pine bark beetle ___ Exotic plants ___ Fire Suppression
 ___ dogwood anthr ___ ORV

Disturbance and animal use comments:

kudzu, treated with
 Roundup; Garlon 4 & Transline

VICK.28

County: Warren Park: NATR (VICK) Plot Code: V53 State: AL (MS) TN Location org: NPS

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent – T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		100%	<i>Pueraria montana</i> var. <i>lobata</i> - 90%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

[illegible]

County: Warren Park: NATR VICK Plot Code: V54 State: AL MS TN Location org: NPS

Provisional community name Liquidambar styraciflua - Carya illinoensis - Quercus nigra Forest

Classified community name

Classifier CWN Date _____ NVC ELCODE CEGL004122

Survey date: 8/31/2004 Surveyors initials: AS & CWN & Kurt Foote

Tagged tree is a Sweet gum of 19 cm dbh with tag # 17. Center of 20 x 50m plot is at a bearing of 270° degrees and 2.5 m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

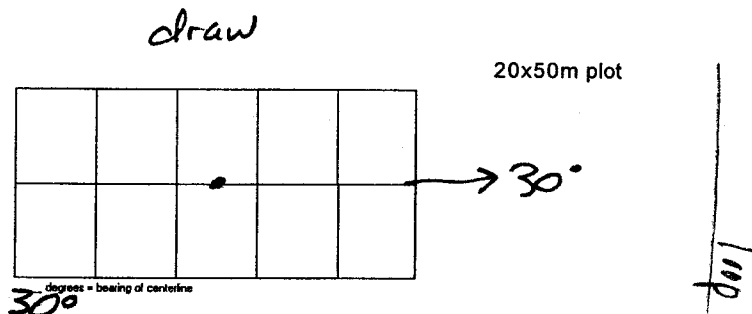
South Loop road,
Confederate side, just past Georgia monument and Fort Garratt.
As loop road turns from SE to S, park and walk
into woods to NW. Plot is on lower slope facing
NW.

Time taken to walk to plot: 8 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? ☐ YES ☒ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PINES

pagoda oak
water oak

PIC # 23-26

Description of pictures (N, E & W from GPS point at middle of plot):

Select one: UTM OR Lat/long (If lat/long, then values are 32.33540 N -090.86346 W)

GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD27 UTM Zone: 15 16

GPS Unit ID 3 GPS file name V54 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 346 Coordinate accuracy _____ m / ft DOP _____ # sats _____

ENVIRONMENTAL / SITE INFORMATION

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.29

Page 3

County: Warren Park: NATR VICK Plot Code: V5-1 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-25m	90%	Liquidambar styraciflua - 70%	.5-1m	10%
Understory T3	15-20m	40%	Liquidambar styraciflua - 10%, Quercus nigra - 10%, Liquidambar styraciflua - 10%	1-2m	20%
Tall shrub S1	2-5m	100%	Ligustrum sinense - 80%	2-5m	30%
Short shrub S2	.5-1m	40%	Ligustrum sinense - 20%	5-10m	40%
Herbaceous	-	10%	Hedera helix - 5%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	30%	Loniceria japonica - 20%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	8	8		3					8	Liqu sty			1 trace
	5	5		3					6	Querc nig			2 0.1-1%
			9	6					9	Liqu sin			3 1-2%
							6		6	Lonijap			4 2-5%
			5	4					5	Ulmus ala			5 5-10%
							2		2	Part qui			6 10-25%
			6	4					6	Prun car			7 25-50%
			4	3					4	Ulmus ame			8 50-75%
			5	3					5	Pryn ser			9 75-95%
					2				2	Boks vir			10 >95%
							5		5	Viti rot			
					2				2	Ager coe			
			2						2	Nand dom			
					4				4	Hede hel			
					2				2	Opili set			
					1				1	Sche oli			
					1				1	Matelea sp			

Community Survey

Page 3

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.29

Page 4

County: Warrick Park: NATR VICK Plot Code: 154 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
			4	3					4	L ^{ay} jap		
			4	3					4	C ^{at} pad		
					2				2	Asp pla		
					1				1	L ^{ir} ipe sp.		
			2						2	Asim tri		
		5							5	niri tul		
					1				1	Poly aur		
					1				1	Sani can		
			2	2					3	Acer neg		
					2				2	Baty disc		
					3				3	Vinc maj		
			2						2	Cerc can		
			1						1	Juni vir		
			2						2	Cary ill		
			2						2	Dios vir		
			1						1	Sass alb		
			2						2	Frax ame		
			2			3			3	Toxi rad		
			2						2	Corn alt		
						1			1	Ampe cor		
						2			2	Berc sca		

Cover classes
1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub
(>1m; to 5m)
S2 Short Shrub
(< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

County: Warren Park: NATR (VICK) Plot Code: V55 State: AL (MS) TN Location org: NPS

Provisional community name

Quercus pagoda - Quercus nigra Forest

Classified community name

Quercus pagoda - Quercus nigra Forest

Classifier

CWN

Date

NVC ECODE

CEGL04109

Survey date:

8/31/2004

Surveyors initials:

AS, CWN, Kurt FooteTagged tree is a white oak of 45 cm dbh with tag # 40. Center of 20 x 40 m plot is at a bearing of 30 degrees and 2.3 m from tree. A double trunked tree, the larger trunk measured.

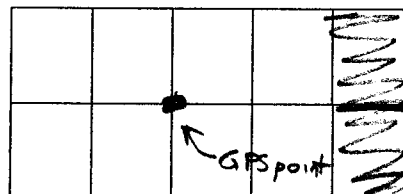
Directions to tag tree (including any notes on best access route, and mile marker):

South loop road, Confederate side just past Georgia Monument and Fort Garrett.In woods on SW side of road as road turns from East towards South, upper slope, about 15 meters into woods. 40 m at 50° from center of plot (GPS point)V54,

Time taken to walk to plot:

5 minutesPLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x ~~40~~ m plot.)Plot representativeness - Is the surrounding area all the same? YES ☒ NO - If not, depict below40

PLOT LOCATION (Below show general plot location)

lower slope

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC #

27, 28-31

Description of pictures (N, E & W from GPS point at middle of plot):

27 (lily "naked ladies"), 28 (N), 29 (E), 30 (S), 31 (W)Select one: ~~UTM~~ OR Lat/long

(If lat/long, then values are

32.33562 N 090.86316 WWGS 84

GPS Techniques/Equipment:

Garmin III+

Garmin V

Datum (pick one) NAD 83 OR NAD 27UTM Zone: 15 16

GPS Unit ID

3

GPS file name

V55

(standard = First letter of park + # of plot (N04 or V04))

Field UTM X

m E

Y

m N

Elevation

m / ft

Averaging performed (at least 120 observations)? 200

Coordinate accuracy

m / ft

DOP

sats

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.30

Page 2

County: Warren Park: NATR VICK Plot Code: VSS State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>11</u> ° <u> </u> % ☐ Flat 0 ° 0 % ☐ Gentle 0-5 ° 1-9 % ☒ Moderate 6-14 ° 10-25 % ☐ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ Overhanging/shielded >100 ° >300 %	Measured Aspect <u>270</u> ° (N=0 °) ☐ Flat ☐ SE 113-157 ° ☐ Variable ☐ S 158-202 ° ☐ N 338-22 ° ☐ SW 203-247 ° ☐ NE 23-67 ° ☒ W 248-292 ° ☐ E 68-112 ° ☐ NW 293-337 °	Topographic Position ☐ Interfluvium (Ridge/summit/crest) ☐ Toeslope ☒ High Slope (upper/convex slope) ☐ Midslope ☐ Low level (terrace) ☐ Lowslope (lower/footslope) ☐ Channel bed Cowardin System ☒ Upland ☐ Palustrine ☐ Estuarine ☐ Lacustrine ☐ Riverine
--	---	--

Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☐ Bottomlands ☐ Cliff ☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope ☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☒ Toe slope ☒ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC DRY - MESIC MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

old fence goes thru plot.

Soil Texture:

☐ Sand ☐ Peat ☒ Silt loam ☐ Muck
☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay

Drainage:

☐ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☒ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

☐ % Bedrock 80 % Litter, duff ☐ % Other
☐ % Large rocks (cobbles, boulders >10cm) 2 % Wood (> 1 cm)
☐ % Small rocks (gravel, 0.2-10 cm) ☐ % Water
☒ % Sand (0.1-2 mm) 18 % Bare soil

Leaf type:

☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☐ Evergreen
☐ Cold-deciduous
☐ Drought-deciduous
☒ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☐ logging ☐ fire ☐ Hydrologic
☐ erosion ☐ trails/roads ☐ Agriculture
☒ grazing/browsing ☐ Wind/ice damage ☐ Old Growth
☐ pine bark beetle ☒ Exotic plants ☐ Fire Suppression
☐ dogwood anthr ☐ ORV

Disturbance and animal use comments:

Lonicera japonica
 trash pile with old cans and bottles
 in plot.

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.30

Page 3

County: Warren Park: NATR VICK Plot Code: V55 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35m	90%	Quercus nigra - 40%, Quercus pagoda - 30%	.5-1m	10%
Understory T3	15-20m	20%	Quercus nigra - 10%	1-2m	20%
Tall shrub S1	2-5m	30%	Prunus caroliniana - 10%, Ulmus americana - 10%	2-5m	30%
Short shrub S2	.5-1m	30%	total short shrub - 30%	5-10m	40%
Herbaceous	-	5%	herb layer is very sparse - 5%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	20%	Pueraria falcata - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	7			1					7	Quer pag			1 trace
	8	5		2					8	Quer pig			2 0.1-1%
	6		4	3					6	Ligu sty			3 1-2%
	6		3	2					6	Frax ame			4 2-5%
			5	3					5	Prun car			5 5-10%
			4	2					4	Corn dru			6 10-25%
			3	3					4	Ligu sin			7 25-50%
							3		3	Ligu jap ~~estrum japonicum~~			8 50-75%
			5	3					5	Ulmus ame			9 75-95%
							5		5	Pant qui			10 >95%
	4	3	2						4	Ulmus ala			
					1				1	Botr vir			
							3		3	Hebe hel			
							4		4	Viti rot			
			3	2					3	Dias vir			
			3	1					3	Firm sim			
			2						2	Junivlr			

VICK.30

County: Warren Park: NATR VICK Plot Code: V55 State: AL MS TN Location org: NPS

Species Distribution and Cover/Abundance Class by Stratum											Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
T 1	T 2	T 3	S 1	S 2	H	N	V	E						
				2					2	Magn usn				
				2					2	Cucurbit				
				1					1	Aspl ph				
				3					3	Cerc can				
				2					2	Nand dom				
							4		4	Berc sca				
				2					2	Opli set				
				2					2	Toxi rad				
				1			2		2	Ampe arb				
							2		2	Side lyc				
				2					2	Smil gla				
			2	2					2	Hirond sp.				
				2					2	Lage ind				
				2					2	Vine maj				
							2		2	Viti cin				
				1					1	Clem vir				
			2						2	Sass alb				

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub
(> 1m; to 5m)
S2 Short Shrub
(< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Community Survey
Page 4

County: Warren Park: NATR VICK Plot Code: V56 State: AL MS TN Location org: NPSProvisional community name Eleocharis montenidensis herbaceousClassified community name (Artificially maintained) NLCD class #92 Emergent/Herbaceous WetlandClassifier CWN

Date

NVC ELCODE

Survey date: 8/31/2004 Surveyors initials: CWN, AS, Kurt FooteTagged tree is a No tag tree of cm dbh with tag # . Center of 20 x 50m plot is at a bearing of degrees and m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

Parking Area for Hwy's
Approach by "Restoration of historic scene" sign. From parking
area downhill to wetland in bottom at 240° SW. Center of
plot is about 18m N 350° from Blue "US union trench
McGinnis Brigade" sign.Extensive in these bottoms.

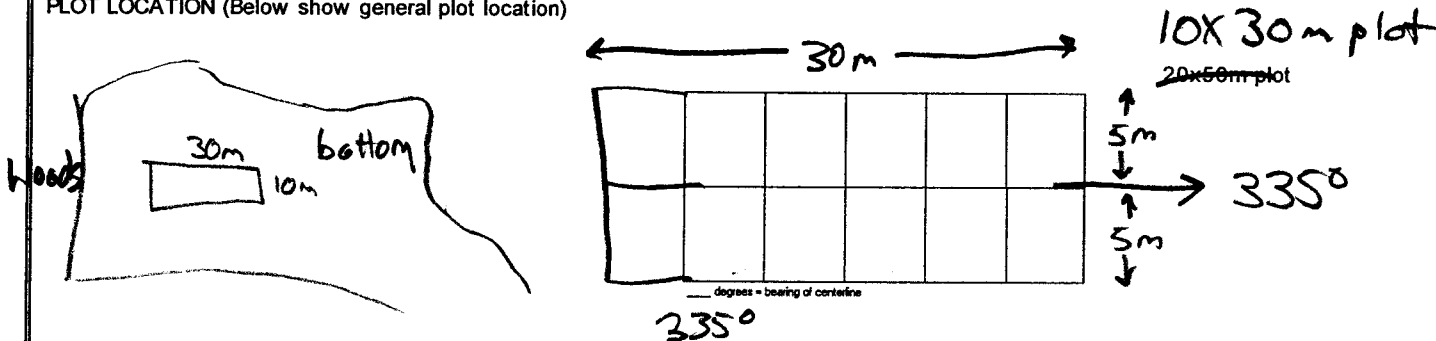
Time taken to walk to plot:

2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC #

36-39Description of pictures (N, E & W from GPS point at middle of plot): Select one: UTM OR Lat/long (If lat/long, then values are 32.33451 N - 090.86108 W)GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD27 UTM Zone: 15 16GPS Unit ID 3 GPS file name V56 (standard = First letter of park + # of plot (N04 or V04))Field UTM X m E Y m N Elevation m / ftAveraging performed (at least 120 observations)? 8 Coordinate accuracy 8 m / ft DOP 2.1 # sats 6

County: Warren Park: NATR VICK Plot Code: V56 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope _____ ° _____ % ☒ Flat 0 ° 0 % ☐ Gentle 0-5 ° 1-9 % ☐ Moderate 6-14 ° 10-25 % ☐ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ Overhanging/shielded >100 ° >300 %	Measured Aspect _____ ° (N=0 °) ☒ Flat _____ SE 113-157 ° ☐ Variable _____ S 158-202 ° ☐ N 338-22 ° SW 203-247 ° ☐ NE 23-67 ° W 248-292 ° ☐ E 68-112 ° NW 293-337	Topographic Position ☐ Interfluvium (Ridge/summit/crest) _____ Toeslope ☐ High Slope (upper/convex slope) ☐ Midslope _____ Low level (terrace) ☐ Low slope (lower/footslope) ☒ Channel bed Cowardin System ☐ Upland ☒ Palustrine ☐ Estuarine ☐ Lacustrine ☐ Riverine
--	---	---

Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☐ Bottomlands ☐ Cliff	☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope	☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☒ Scarp ☐ Toe slope ☐ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine
--	---	--

Rock types present:

Hydrologic Regime (check only for wetlands)

☐ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☒ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

saturated

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

cleared of forest since 1997 For
Restoration of historic scene

Soil Texture:

☐ Sand ☐ Peat ☒ Silt loam ☐ Muck
☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay

Drainage:

☐ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☐ Well drained ☒ Poorly drained ☐ Very poorly drained

Ground cover

☐ % Bedrock ☐ 10 % Litter, duff ☐ % Other _____
☐ % Large rocks (cobbles, boulders >10cm) ☐ % Wood (> 1 cm)
☐ % Small rocks (gravel, 0.2-10 cm) ☒ 70 % Water
☐ % Sand (0.1-2 mm) ☒ 20 % Bare soil

Leaf type:

☐ Broad-leaved
☐ Needle-leaved
☒ Microphyllous
☒ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☐ Evergreen
☐ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☒ Herb - Perennial

Physiognomic Class

☐ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☒ Dwarf Shrubland
☒ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☒ Logging ☐ fire ☐ Hydrologic
☐ erosion ☐ trails/roads ☐ Agriculture
☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth
☐ pine bark beetle ☐ exotic plants ☐ Fire Suppression
☐ dogwood anthr ☐ ORV

Disturbance and animal use comments:

VICK.3i

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		100%	<i>Eleocharis montevidensis</i> - 90%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

[illegible]

NPS GULF COAST PROJECT: Plot Sampling Form

County: Warren Park: NATR (VICK) Plot Code: V57 State: AL (MS) TN Location org: NPS

Provisional community name Sorghum halapense herbaceous vegetation

Classified community name _____

Classifier CWN Date _____ NVC ELCODE CEGL004108

Survey date: 8/31/2004 Surveyors initials: CWN, AS, Kurt Foote

Tagged tree is a No tag tree of _____ cm dbh with tag # _____ Center of 20 x 50m plot is at a bearing of _____ degrees and _____ m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

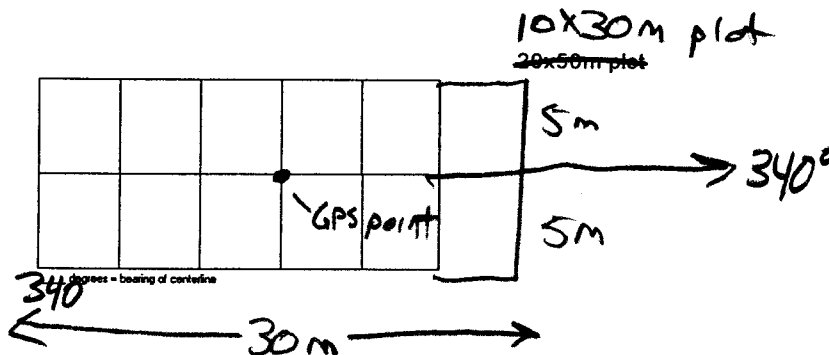
Near Hoveys Approach parking area, south of it.
From Tour Stop 15 sign about 25m SW at 200°
to plot center

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES ☒ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 40-43

Description of pictures (N, E & W from GPS point at middle of plot): _____

Select one: UTM OR (Lat/long) (If lat/long, then values are 32.33431 N 090.86050 W)

WGS 84

GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD 27 UTM Zone: 15 16

GPS Unit ID 3 GPS file name V57 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? _____ Coordinate accuracy _____ m / ft DOP _____ # sats _____

County: Warren Park: NATR VICK Plot Code: V57 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope _____ ° _____ % Flat 0° 0% Gentle 0-5° 1-9% ☒ Moderate 6-14° 10-25% Somewhat steep 15-25° 26-49% Steep 27-45° 50-100% Very steep 45-69° 101-275% Abrupt 70-100° 276-300% Overhanging/shielded >100° >300%	Measured Aspect <u>205</u> ° (N=0°) Flat _____ SE 113-157° Variable _____ S 158-202° ☒ N 338-22° ☒ SW 203-247° NE 23-67° W 248-292° E 68-112° NW 293-337°	Topographic Position Interfluvium (Ridge/summit/crest) _____ Toeslope High Slope (upper/convex slope) _____ ☒ Midslope _____ Low level (terrace) Low slope (lower/footslope) _____ Channel bed Cowardin System ☒ Upland _____ Palustrine Estuarine _____ Lacustrine _____ Riverine
---	---	---

Landform (check most applicable)

☐ Alluvial flat
☐ Alluvial terrace
☐ Bald
☐ Bank
☐ Bar
☐ Bench
☐ Bottomlands
☐ Cliff

☐ Cove
☐ Depression
☐ Draw
☐ Exogenous dome
☐ Floodplain
☐ Gap
☐ Gorge
☐ Hillslope bedrock outcrop
☐ Midslope
☐ Nose slope

☐ Ridge
☐ Ridgetop bedrock outcrop
☐ Saddle
☐ Seep
☐ Toe slope
☒ Slope
☐ Streambed
☐ Streamhead
☐ Periglacial boulderfield
☐ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC MESIC)
☐ Intermittently flooded _____ Permanently flooded _____ Semipermanently flooded _____ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) _____ Saturated (e.g. bogs, perennial seeps) _____ Unknown _____ Irregularly flooded _____ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Was also cleared during civil war.

Soil Texture:

☐ Sand _____ Peat ☒ Silt loam _____ Muck
☐ Sandy loam _____ Loam _____ Clay loam _____ Clay

Drainage:

☒ Rapidly drained _____ Moderately well drained _____ Somewhat poorly drained
☒ Well drained _____ Poorly drained _____ Very poorly drained

Ground cover

_____ % Bedrock
 _____ % Large rocks (cobbles, boulders > 10cm)
 _____ % Small rocks (gravel, 0.2-10 cm)
 _____ % Sand (0.1-2 mm)
60 % Litter, duff
 _____ % Wood (> 1 cm)
 _____ % Water
40 % Bare soil
 _____ % Other _____

Leaf type:

☐ Broad-leaved
☐ Needle-leaved
☒ Microphyllous
☒ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☐ Evergreen
☐ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☒ Herb - Perennial

Physiognomic Class

☐ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☒ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☒ logging _____ fire _____ Hydrologic
☒ erosion _____ trails/roads _____ Agriculture
☐ grazing/browsing _____ wind/ice damage _____ Old Growth
☐ pine bark beetle _____ exotic plants _____ Fire Suppression
☐ dogwood anthr _____ ORV

Disturbance and animal use comments:

2 mowed 2 x / year

VICK.32

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		100%	<i>Sorghum halapense</i> - 80%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

[illegible]

NPS GULF COAST PROJECT: Plot Sampling Form

County: Warren Park: NATR VICK Plot Code: V58 State: AL MS TN Location org: NPS

Provisional community name

Robinia pseudoacacia Shrubland

Classified community name

Robinia pseudoacacia Forest

Classifier

CWN

Date

9/1/2004

NVC ELCODE

CEGL007279

Survey date:

9/1/2004

Surveyors initials:

CWN & AS

Tagged tree is a

No tag tree

of

cm dbh with tag #

Center of 20 x 50m plot is at a bearing of

degrees and

m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

About 0.1-0.2 mile past, east of intersection of
East side North loop Rd. and Pemberton Ave. (Before Michigan
Monument on west facing slope between road and forest
just past bridge, south of road.

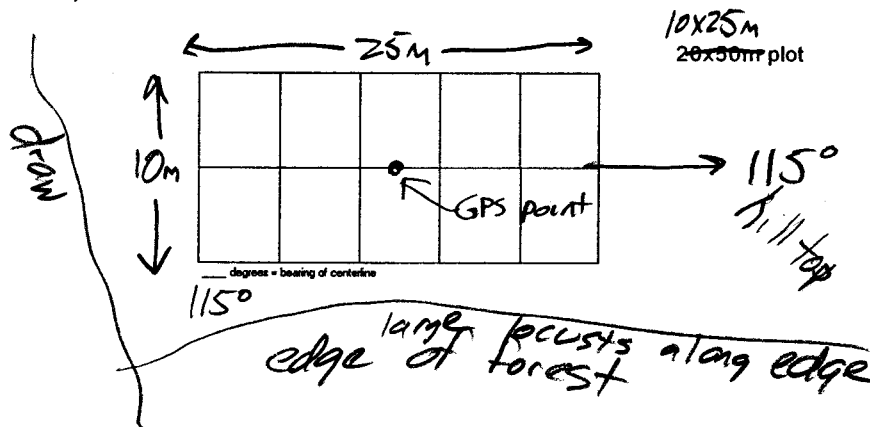
Time taken to walk to plot:

2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? ☐ YES ☒ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC #

61-84

Description of pictures (N, E & W from GPS point at middle of plot):

Select one: UTM OR

Lat/long

(If lat/long, then values are

32.35476° N -090.84235° W
WGS 84

GPS Techniques/Equipment: Garmin III+

Garmin V

Datum (pick one) NAD 83 OR NAD 27UTM Zone: 15 16

GPS Unit ID

GPS file name

V58

(standard = First letter of park + # of plot (N04 or V04))

Field UTM X

m E

Y

m N

Elevation

m / ft

Averaging performed (at least 120 observations) ☒

Coordinate accuracy

5

m / ft

DOP

1.3

sats

7

County: Warren Park: NATR (VICK) Plot Code: V58 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>18</u> ° <u> </u> % ☐ Flat 0 ° 0 % ☐ Gentle 0-5 ° 1-9 % ☒ Moderate 6-14 ° 10-25 % ☐ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ overhng/shltd >100 ° >300 %	Measured Aspect <u> </u> ° (N=0 °) ☐ Flat <u> </u> SE 113-157 ° ☐ Variable <u> </u> S 158-202 ° ☐ N 338-22 ° SW 203-247 ° ☐ NE 23-67 ° W 248-292 ° ☐ E 68-112 ° NW 293-337	Topographic Position ☐ Interfluv (Ridge/summit/crest) <u> </u> Toeslope ☐ High Slope (upper/convex slope) ☒ Midslope <u> </u> Low level (terrace) ☐ Lowslope (lower/footslope) <u> </u> Channel bed Cowardin System ☒ Upland <u> </u> Palustrine ☐ Estuarine <u> </u> Lacustrine <u> </u> Riverine
---	--	---

Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☐ Bottomlands ☐ Cliff ☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope ☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☒ Toe slope ☒ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC: DRY - MESIC: MESIC)
☐ Intermittently flooded Permanently flooded Semipermanently flooded Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) Saturated (e.g. bogs, perennial seeps) Unknown Irregularly flooded Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

was open in past, black locust is seedling
in from trees to south at edge of forest

Soil Texture: ☐ Sand <u> </u> Peat <u> </u> ☒ Silt loam <u> </u> Muck ☐ Sandy loam <u> </u> Loam <u> </u> Clay loam <u> </u> Clay	Drainage: ☐ Rapidly drained <u> </u> Moderately well drained <u> </u> Somewhat poorly drained ☒ Well drained <u> </u> Poorly drained <u> </u> Very poorly drained
--	---

Ground cover ☐ % Bedrock ☐ % Large rocks (cobbles, boulders >10cm) ☐ % Small rocks (gravel, 0.2-10 cm) ☐ % Sand (0.1-2 mm)	☐ % Litter, duff ☐ % Wood (> 1 cm) ☐ % Water ☒ 60% Bare soil	☐ % Other <u> </u>
---	--	--

Leaf type: ☒ Broad-leaved ☐ Needle-leaved ☐ Microphyllous ☐ Graminoid ☐ Broad-leaved herbaceous ☐ Pteridophyte ☐ Extremely xeromorphic ☐ Mixed	Leaf phenology (dominant stratum) ☒ Evergreen ☐ Cold-deciduous ☐ Drought-deciduous ☐ Mixed evergreen-cold-deciduous ☐ Mixed evergreen drought deciduous ☐ Herb - Annual ☐ Herb - Perennial	Physiognomic Class ☐ Forest (closed tree canopy) ☐ Woodland (open tree canopy) ☒ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous (less than 25% woody layers) ☐ Nonvascular ☐ Sparse Vegetation
--	--	--

Natural and Anthropogenic Disturbance ☐ logging <u> </u> fire <u> </u> Hydrologic ☐ erosion <u> </u> trails/roads <u> </u> Agriculture ☐ grazing/browsing <u> </u> wind/ice damage <u> </u> Old Growth ☐ pine bark beetle <u> </u> exotic plants <u> </u> Fire Suppression ☐ dogwood anthr <u> </u> ORV	Disturbance and animal use comments: see notes under landscape landuse history above.
---	---

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.33

Page 3

County: Warren Park: NATR VICK Plot Code: V58 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1	2-5m	90%	Robinia pseudo-acacia - 90%	2-5m	30%
Short shrub S2	-	-		5-10m	40%
Herbaceous	-	80%	Sorghum halepense - 46% Festuca arundinacea - 5%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
			9						9	Robin pse			1 trace
				1					1	Jugl nig			2 0.1-1%
				7					7	Sorba			3 1-2%
				3					3	Comm asi Commelina communis			4 2-5%
				4					4	Fest aru			5 5-10%
				2					2	Care che			6 10-25%
				3					3	Solican			7 25-50%
				3					3	Pasp not			8 50-75%
				2					2	Lact can			9 75-95%
							1		1	Coc car			10 > 95%
				1					1	Ager coe			
							2		2	Viti rot			
				1					1	Oxal dil			
				2					2	Elym xir			
				1					1	Digi fil			
				2					2	Phyt ame			
				1					1	Duch ind			

County: Warren Park: NATR VICK Plot Code: V59 State: AL MS TN Location org: NPS

Provisional community name _____

Classified community name _____

Classifier CWNDate 9/2/2004NVC ELCODE 7410Salix nigra large river floodplain ForestSurvey date: 9/2/2004Surveyors initials: CWN & AS & Kurt FooteTagged tree is a black willow of 37 cm dbh with tag # 34. Center of 20 x 50m plot is at a bearing of 10° degrees and 4 m from tree. tag is on SW side of tree.

Directions to tag tree (including any notes on best access route, and mile marker):

Vicksburg, take Washington St. North from downtown, pull off on west side of road at wide area, go back to vicinity of 45 mph sign (Facing N.) and go in along NPS South property line. Be careful, river was low. Plot is about 40 m NE of NPS corner by Yazoo River Diversion Canal.

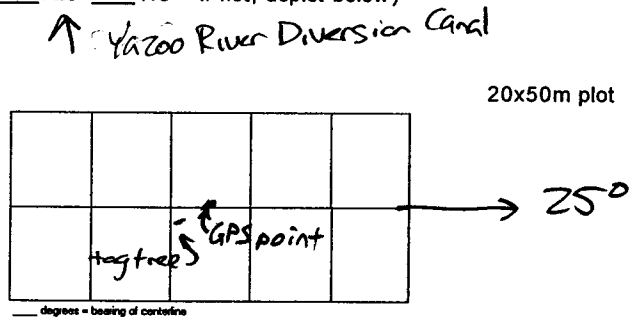
Time taken to walk to plot: 12 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? ☒ YES ☐ NO - If not, depict below

PLOT LOCATION (Below show general plot location)

Yazoo River Diversion Canal
edge (exposed)
black willow forest
black willow forest
RR
WASHINGTON ST



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 111-114

Description of pictures (N, E, S & W from GPS point at middle of plot): _____

Select one: ~~UTM~~ OR Lat/long

(If lat/long, then values are

32.36887° N - 090.87482° WWGS 84GPS Techniques/Equipment: Garmin III+ ~~Garmin V~~Datum (pick one) NAD 83 OR NAD 27UTM Zone: 19 ~~18~~GPS Unit ID 3GPS file name V59

(standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)?

Coordinate accuracy 8 m / ftDOP 2.5# sats 7

County: Warren Park: NATR VICK Plot Code: V59 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>0</u> ° <u>0</u> % ☐ Flat 0 ° 0 % ☐ Gentle 0-5 ° 1-9 % ☐ Moderate 6-14 ° 10-25 % ☐ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ overhng/shltd >100 ° >300 %	Measured Aspect <u>0</u> ° (N=0 °) ☒ Flat SE 113-157 ° ☐ Variable S 158-202 ° ☐ N 338-22 ° SW 203-247 ° ☐ NE 23-67 ° W 248-292 ° ☐ E 68-112 ° NW 293-337	Topographic Position ☐ Interfluv (Ridge/summit/crest) ☐ Toeslope ☐ High Slope (upper/convex slope) ☐ Midslope ☒ Low level (terrace) ☐ Lowslope (lower/footslope) ☐ Channel bed Cowardin System ☐ Upland ☒ Palustrine ☐ Estuarine ☐ Lacustrine ☐ Riverine
Landform (check most applicable) ☒ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☐ Bottomlands ☐ Cliff ☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope ☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☐ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine		
Rock types present: <u>None apparent</u> Hydrologic Regime (check only for wetlands) ☐ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC) ☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☒ Temporarily Flooded (e.g. floodplains) ☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed		
QUALITATIVE ASSESSMENT: A) HYDROLOGY: <u>Periodically Flooded from overflow of the Yazoo River Diversion Canal.</u> B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability): <u>Site may have been partially eroded from spoil deposited during dredging operations in Yazoo River Diversion Canal.</u>		
Soil Texture: ☐ Sand ☐ Peat ☒ Silt loam ☐ Muck ☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay	Drainage: ☐ Rapidly drained ☐ Moderately well drained ☒ Somewhat poorly drained ☐ Well drained ☐ Poorly drained ☐ Very poorly drained	
Ground cover ☐ % Bedrock <u>20</u> % Litter, duff ☐ % Other _____ ☐ % Large rocks (cobbles, boulders >10cm) <u>10</u> % Wood (> 1 cm) ☐ % Small rocks (gravel, 0.2-10 cm) _____ % Water ☐ % Sand (0.1-2 mm) <u>70</u> % Bare soil		
Leaf type: ☒ Broad-leaved ☐ Needle-leaved ☐ Microphyllous ☐ Graminoid ☐ Broad-leaved herbaceous ☐ Pteridophyte ☐ Extremely xeromorphic ☐ Mixed	Leaf phenology (dominant stratum) ☒ Evergreen ☐ Cold-deciduous ☐ Drought-deciduous ☐ Mixed evergreen-cold-deciduous ☐ Mixed evergreen drought deciduous ☐ Herb - Annual ☐ Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) ☐ Woodland (open tree canopy) ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous (less than 25% woody layers) ☐ Nonvascular ☐ Sparse Vegetation
Natural and Anthropogenic Disturbance ☐ logging ☐ fire ☐ Hydrologic ☐ erosion ☐ trails/roads ☐ Agriculture ☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth ☐ pine bark beetle ☐ exotic plants ☐ Fire Suppression ☐ dogwood anthr ☐ ORV		Disturbance and animal use comments: <u>Association likely an artifact of anthropogenic disturbance.</u>

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.34

Page 3

County: Warren Park: NATR VICK Plot Code: V59 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-35	80%	Salix nigra - 80%	.5-1m	10%
Understory T3	—	—		1-2m	20%
Tall shrub S1	2-5m	80%	Forestiera acuminata - 40%, Platanus aquatica - 20%, Cephalaria occidentalis - 20%	2-5m	30%
Short shrub S2	.5-1m	30%	Forestiera acuminata - 10%, Cephalaria occidentalis - 10%	5-10m	40%
Herbaceous	—	20%	Saururus cernuus - 10%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	20%	Brunnichia nana - 10%, Vitis vulpina - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
9									9	Salix nig			1 trace
			15						7	Forestiera			2 0.1-1%
							5		5	Brunnicha			3 1-2%
			64						6	Platanus			4 2-5%
					1				1	Cynanthe			5 5-10%
			65						7	Cephalaria			6 10-25%
				2					2	Hibiscus			7 25-50%
				2					2	Baccharis			8 50-75%
				5					5	Saururus			9 75-95%
			2						2	Toxicaria			10 >95%
							5		5	Vitis vul			
			12						2	Colea tri			
				2					2	Xanthox			
				3					3	Leersia sp			
			2						2	Taxodium			
				3					3	Althea phi			
				2					2	Sicyopt			
									2	Caryocarp			

Community Survey

Page 3

Ipomoea

County: Warren Park: NATR (VICK) Plot Code: V60 State: AL (MS) TN Location org: NPSProvisional community name Broussonetia papyrifera ForestClassified community name Broussonetia papyrifera Forest
Classifier CWN Date NVC EL CODE 2EGL004106Survey date: 9/2/2004 Surveyors initials: CWN, AS, Kurt FooteTagged tree is a Paper mulberry of 29 cm dbh with tag # 35 Center of 20 x 50m plot is at a bearing of 90° degrees and 0.6 m from tree. tag is on south side of tag tree

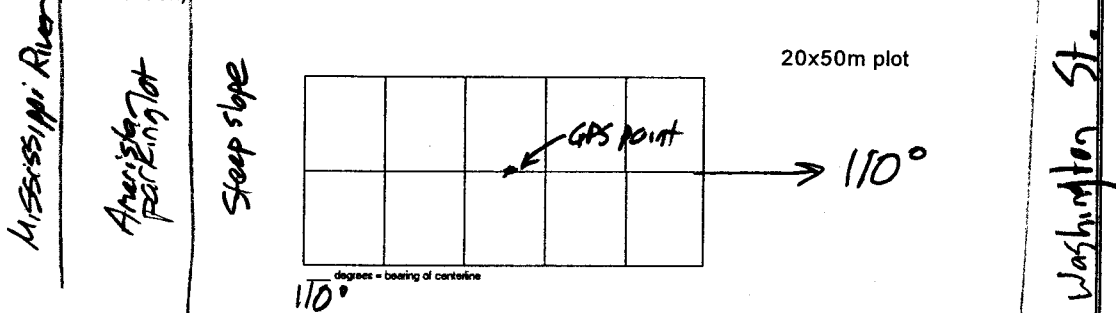
Directions to tag tree (including any notes on best access route, and mile marker):

Vicksburg NMP, South Fort Unit, just N. of Ameristar Casino
Parking lot. Park at Ameristar Casino upper parking lot
From top of hill where cannon are go N from
NW corner of grassy area. Tag tree is about
25 m N.Time taken to walk to plot: 5 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? YES ☒ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 115-118Description of pictures (N,E,S & W from GPS point at middle of plot): mowed monument areaSelect one: ~~UTM~~ OR (Lat/long) (If lat/long, then values are 32.31617° N -090.89815° W)WGS 84GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD 27 UTM Zone: 15 16GPS Unit ID 3 GPS file name V60 (standard = First letter of park + # of plot (N04 or V04))Field UTM X m E Y m N Elevation m / ftAveraging performed (at least 120 observations)? ☒ Coordinate accuracy 30 m / ft DOP 7 # sats 4

County: Warren Park: NATR (VICK) Plot Code: V60 State: AL (MS) TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>9</u> ° <u> </u> % — Flat 0 ° 0 % — Gentle 0-5 ° 1-9 % ☒ Moderate 6-14 ° 10-25 % — Somewhat steep 15-25 ° 26-49 % — Steep 27-45 ° 50-100 % — Very steep 45-69 ° 101-275 % — Abrupt 70-100 ° 276-300 % — ovrhng/shltd >100 ° >300 %	Measured Aspect <u>300</u> ° (N=0 °) — Flat — SE 113-157 ° — Variable — S 158-202 ° — N 338-22 ° — SW 203-247 ° — NE 23-67 ° — W 248-292 ° — E 68-112 ° ☒ NW 293-337	Topographic Position — Interfluv (Ridge/summit/crest) — Toeslope ☒ High Slope (upper/convex slope) — Midslope — Low level (terrace) — Lowslope (lower/footslope) — Channel bed Cowardin System ☒ Upland — Palustrine — Estuarine — Lacustrine — Riverine
Landform (check most applicable) — Alluvial flat — Cove — Alluvial terrace — Depression — Bald — Draw — Bank — Exogenous dome — Bar — Floodplain — Bench — Gap — Bottomlands — Gorge — Cliff — Hillslope bedrock outcrop — — Midslope — — Nose slope		
Rock types present: Hydrologic Regime (check only for wetlands) ☒ Not a wetland (Upland: XERIC <u>(DRY - MESIC)</u> : MESIC) — Intermittently flooded — Permanently flooded — Semipermanently flooded — Temporarily Flooded (e.g. floodplains) — Seasonally Flooded (e.g. seasonal ponds) — Saturated (e.g. bogs, perennial seeps) — Unknown — Irregularly flooded — Irregularly exposed		
QUALITATIVE ASSESSMENT: A) HYDROLOGY: <i>Dense vegetation cover likely prevents excessive runoff; however, low shrub and herbaceous components are sparse, thus having high potential for erosion if canopy is thinned or removed.</i> B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability): <i>Currently dominated by an exotic species (Boussouletia papyroidea), an artifact of human disturbance. Cleared during Civil War era.</i>		
Soil Texture: — Sand — Peat ☒ Silt loam — Muck — Sandy loam — Loam — Clay loam — Clay	Drainage: ☒ Rapidly drained — Moderately well drained — Somewhat poorly drained ☒ Well drained — Poorly drained — Very poorly drained	
Ground cover — % Bedrock <u>80</u> % Litter, duff — % Other _____ — % Large rocks (cobbles, boulders >10cm) <u>10</u> % Wood (> 1 cm) — % Small rocks (gravel, 0.2-10 cm) _____ % Water — % Sand (0.1-2 mm) <u>10</u> % Bare soil		
Leaf type: ☒ Broad-leaved — Needle-leaved — Microphyllous — Graminoid — Broad-leaved herbaceous — Pteridophyte — Extremely xeromorphic — Mixed	Leaf phenology (dominant stratum) ☒ Evergreen ☒ Cold-deciduous — Drought-deciduous — Mixed evergreen-cold-deciduous — Mixed evergreen drought deciduous — Herb - Annual — Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) — Woodland (open tree canopy) — Shrubland — Dwarf Shrubland — Herbaceous (less than 25% woody layers) — Nonvascular — Sparse Vegetation
Natural and Anthropogenic Disturbance — logging — fire — Hydrologic — erosion — trails/roads — Agriculture — grazing/browsing — wind/ice damage — Old Growth — pine bark beetle ☒ Exotic plants — Fire Suppression — dogwood anthr — ORV		Disturbance and animal use comments: <i>Association is an artifact of human disturbance.</i>

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.35

Page 3

County: Waller Park: NATR VICK Plot Code: V60 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	15-20m	80%	Broussonetia papyrifera - 80%	.5-1m	10%
Understory T3	10-15m	50%	Broussonetia papyrifera - 50%	1-2m	20%
Tall shrub S1	2-5m	20%	Broussonetia papyrifera - 20%	2-5m	30%
Short shrub S2	.5-1m	10%	Broussonetia papyrifera - 10%	5-10m	40%
Herbaceous	-	-	Arandinaria gigantea - 20%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana	-	5%	Lonicera japonica - 5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	9	7	6	5					10	Brou pap			1 trace
				2					2	Rabipse			2 0.1-1%
		3		1					3	Acer neg			3 1-2%
		3							3	Ulmus rub			4 2-5%
							4		4	Loni jap			5 5-10%
		3							3	Ulmus alba			6 10-25%
					5				5	Elym vir			7 25-50%
					2				2	Calyc ho			8 50-75%
					6				6	Arun gig			9 75-95%
				2					2	Lige sir			10 >95%
				2					2	Geum can			
				1					1	Prun car			
				2					2	Samb can			
							2		2	Part qui			
					1				1	Care oxy			

County: Warren Park: NATR VICK Plot Code: V61 State: AL MS TN Location org: NPS

Provisional community name Kudzu vineyard

Classified community name Poeraria montana var. lobata Vine-shrubland
 Classifier CWN Date 9/2/2004 NVC EL CODE 3.882

Survey date: 9/2/2004 Surveyors initials: CWN & AS

Tagged tree is a No tag tree of cm dbh with tag # . Center of 20 x 50m plot is at a bearing of degrees and m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

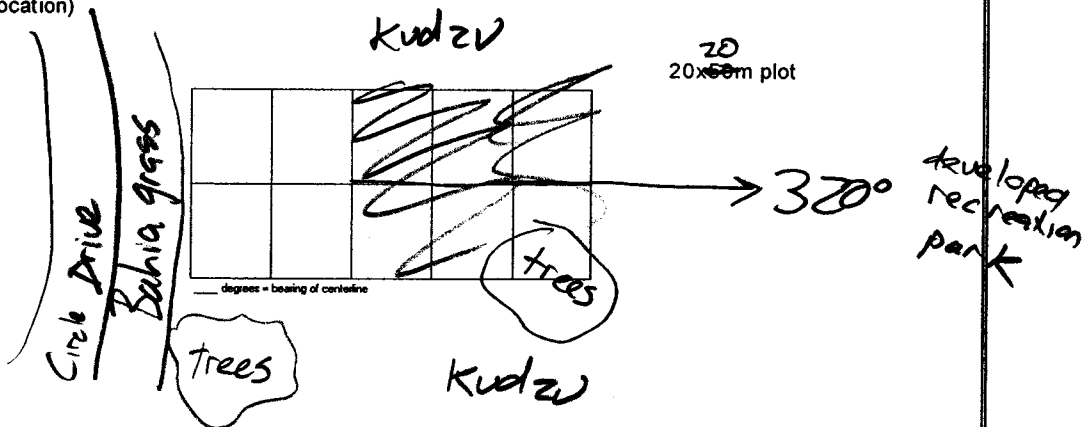
Vicksburg NMP, Louisiana Circle on bluff of Mississippi River. From middle of circle drive on NW facing slope. Center of plot is 10 m into Kudzu.

Time taken to walk to plot: 2 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES NO - If not, depict below

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 119-122

Description of pictures (N, E, S & W from GPS point at middle of plot):

123 view of Kudzu and Mississippi River.

Select one: UTM OR Lat/long (If lat/long, then values are 32.31989° N 090.89735° W)

GPS Techniques/Equipment Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD27 UTM Zone: 15 16

GPS Unit ID 3 GPS file name V61 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X m E Y m N Elevation m / ft

Averaging performed (at least 120 observations)? ✓ Coordinate accuracy 8 m / ft DOP 1.7 # sats 6

County: Waller Park: NATR (VICK) Plot Code: V61 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>24</u> ° <u> </u> % ☐ Flat 0 ° 0 % ☐ Gentle 0-5 ° 1-9 % ☒ Moderate 6-14 ° 10-25 % ☐ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ overhng/shltd >100 ° >300 %	Measured Aspect <u>320</u> (N=0 °) ☐ Flat <u> </u> SE 113-157 ° ☐ Variable <u> </u> S 158-202 ° ☐ N 338-22 ° <u> </u> SW 203-247 ° ☐ NE 23-67 ° <u> </u> W 248-292 ° ☐ E 68-112 ° ☒ NW 293-337	Topographic Position ☐ Interfluv (Ridge/summit/crest) <u> </u> Toeslope ☒ High Slope (upper/convex slope) ☐ Midslope <u> </u> Low level (terrace) ☐ Lowslope (lower/footslope) <u> </u> Channel bed Cowardin System ☒ Upland <u> </u> Palustrine ☐ Estuarine <u> </u> Lacustrine <u> </u> Riverine
Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☐ Bottomlands ☐ Cliff ☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope ☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☒ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine	Rock types present: <u>None observed</u>	
Hydrologic Regime (check only for wetlands) ☒ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC) ☐ Intermittently flooded <u> </u> Permanently flooded <u> </u> Semipermanently flooded <u> </u> Temporarily Flooded (e.g. floodplains) ☐ Seasonally Flooded (e.g. seasonal ponds) <u> </u> Saturated (e.g. bogs, perennial seeps) <u> </u> Unknown <u> </u> Irregularly flooded <u> </u> Irregularly exposed		
QUALITATIVE ASSESSMENT: A) HYDROLOGY: <u>Dense covering of kudzu likely precludes any excessive runoff of precipitation, thus minimizing erosion.</u> B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability): <u>Apparently cleared during Civil War, and subsequently periodically thereafter. Current conditions are an artifact of human disturbance.</u>		
Soil Texture: ☐ Sand <u> </u> Peat <u> </u> Silt loam <u> </u> Muck ☐ Sandy loam <u> </u> Loam <u> </u> Clay loam <u> </u> Clay	Drainage: ☐ Rapidly drained <u> </u> Moderately well drained <u> </u> Somewhat poorly drained ☒ Well drained <u> </u> Poorly drained <u> </u> Very poorly drained	
Ground cover ☐ % Bedrock <u> </u> % Litter, duff <u> </u> % Other <u> </u> ☐ % Large rocks (cobbles, boulders >10cm) <u> </u> % Wood (> 1 cm) ☐ % Small rocks (gravel, 0.2-10 cm) <u> </u> % Water ☐ % Sand (0.1-2 mm) <u> </u> % Bare soil		
Leaf type: ☐ Broad-leaved ☐ Needle-leaved ☐ Microphyllous ☐ Graminoid ☒ Broad-leaved herbaceous ☐ Pteridophyte ☐ Extremely xeromorphic ☐ Mixed	Leaf phenology (dominant stratum) ☐ Evergreen ☐ Cold-deciduous ☐ Drought-deciduous ☐ Mixed evergreen-cold-deciduous ☐ Mixed evergreen drought deciduous ☐ Herb - Annual ☒ Herb - Perennial	Physiognomic Class ☐ Forest (closed tree canopy) ☐ Woodland (open tree canopy) ☐ Shrubland ☐ Dwarf Shrubland ☒ Herbaceous (less than 25% woody layers) ☐ Nonvascular ☐ Sparse Vegetation
Natural and Anthropogenic Disturbance ☐ logging <u> </u> fire <u> </u> Hydrologic ☐ erosion <u> </u> trails/roads <u> </u> Agriculture ☐ grazing/browsing <u> </u> wind/ice damage <u> </u> Old Growth ☐ pine bark beetle ☒ exotic plants <u> </u> Fire Suppression ☐ dogwood anthr <u> </u> ORV	Disturbance and animal use comments: <u>Association an artifact of anthropogenic disturbance.</u>	

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2				.5-1m	10%
Understory T3				1-2m	20%
Tall shrub S1				2-5m	30%
Short shrub S2				5-10m	40%
Herbaceous		100%	<i>Puccinia montana</i> var. <i>lobata</i> - 100%	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana				20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

[illegible]

County: WARREN Park: NATR VICK Plot Code: V62 State: AL MS TN Location org: NPS

Provisional community name Black Locust

Classified community name Robinia pseudoacacia Forest

Classifier CWN Date 9/15/2004 NVC EL CODE 7279

Survey date: 9-10-04

Surveyors initials: A. SCHOTZ, E. LUPESCU

Tagged tree is a ROBIN PSE of 32 cm dbh with tag # 41 Center of 20 x 50m plot is at a bearing of 200 degrees and 2 m from tree. GPS POINT IS AT S BASE OF TREE FACING EAST

Directions to tag tree (including any notes on best access route, and mile marker):

FOLLOW GRAVEYARD ROAD W FROM UNION AVENUE FOR ~0.25 MILES
UNTIL REACHING TREE ONLY ON S (G N, R) WHEN GPS PT WILL BE ~85M
DN S.

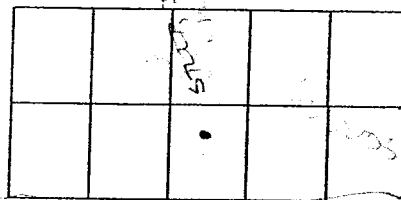
PLOT IS ON SLOPE TO W OF "UNION TRENCH - LIVING'S BRIGADE" (BLUE SIGNS
MARK TRENCH)

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



20x50m plot

Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 23-27

Description of pictures (N, E & W from GPS point at middle of plot): 24-27 N, E, S, W

23 = from NE of plot, looking at canopy of Black Locust

Select one: UTM OR Lat/long (If lat/long, then values are 32.36732 N 82.84327 W)

GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD 27 UTM Zone: 15 16

GPS Unit ID _____ GPS file name V62 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? 120 Coordinate accuracy 6 m / ft DOP 1.6 # sats 7

County: Waller Park: NATR VICK Plot Code: V62 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>15</u> ° <u>0</u> % ☐ Flat 0° 0% ☐ Gentle 0-5° 1-9% ☐ Moderate 6-14° 10-25% ☒ Somewhat steep 15-25° 26-49% ☐ Steep 27-45° 50-100% ☐ Very steep 45-69° 101-275% ☐ Abrupt 70-100° 276-300% ☐ Overhanging/shielded >100° >300%	Measured Aspect <u>220</u> (N=0°) ☐ Flat <u>SE</u> 113-157° ☐ Variable <u>S</u> 158-202° ☐ N 338-22° <u>SW</u> 203-247° ☐ NE 23-67° <u>W</u> 248-292° ☐ E 68-112° <u>NW</u> 293-337°	Topographic Position ☐ Interfluvial (Ridge/summit/crest) <u>Toeslope</u> ☒ High Slope (upper/convex slope) ☐ Midslope <u>Low level (terrace)</u> ☐ Low slope (lower/footslope) <u>Channel bed</u> Cowardin System ☒ Upland <u>Palustrine</u> ☐ Estuarine <u>Lacustrine</u> <u>Riverine</u>
---	---	---

Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☐ Bottomlands ☐ Cliff ☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope ☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☒ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine
--

Rock types present: None apparent

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC MESIC)
☐ Intermittently flooded Permanently flooded Semipermanently flooded Temporarily flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) Saturated (e.g. bogs, perennial seeps) Unknown Irregularly flooded Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: Severe erosion in the past, as suggested by a series of deep, steep-sided gullies. Recently in the process of recovering.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Association is an artifact of human disturbance - a mature stand of an early successional species (Robinia). Erosion likely resulted from land clearing years ago and is now subsiding as site becomes revegetated.

Soil Texture:

☐ Sand ☐ Peat ☒ Silt loam ☐ Muck
☐ Sandy loam ☐ Loam ☐ Clay loam ☐ Clay

Drainage:

☒ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☒ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

80 % Bedrock 10 % Litter, duff 10 % Other _____
10 % Large rocks (cobbles, boulders > 10cm) 10 % Wood (> 1 cm)
10 % Small rocks (gravel, 0.2-10 cm) _____
10 % Sand (0.1-2 mm) _____
10 % Water _____
10 % Bare soil _____

Leaf type:

☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☒ Evergreen
☐ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☒ Logging ☐ Fire ☐ Hydrologic
☒ Erosion ☐ trails/roads ☐ Agriculture
☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth
☐ pine bark beetle ☒ exotic plants ☐ Fire Suppression
☐ dogwood anthr ☐ ORV

Disturbance and animal use comments

Severe infestation of Chinese privet, English ivy, and other exotics. Series of deep eroded gullies present.

County: Warren Park: NATR VICK Plot Code: V62 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	15-20m	60%	Robinia pseudo-acacia - 50%	.5-1m	10%
Understory T3	10-15m	50%	Robinia pseudo-acacia - 10%, Ulmus ruber - 20%	1-2m	20%
Tall shrub S1	2-5m	50%	Ligustrum sinense - 30%	2-5m	30%
Short shrub S2	.5-1m	20%	Ligustrum sinense - 5%	5-10m	40%
Herbaceous	-	30%	Arundinaria gigantea - 30%	10-15m	50%
Non-vascular	-	-		15-20m	60%
Vine/liana		30%	Ampelopsis arborea - 10%, Toxicodendron radicans - 10%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	7	6							7	Robi pse			1 trace
		5	3						5	Moru rub			2 0.1-1%
		6	3						6	Ulmus rub			3 1-2%
	5								5	Liri tul			4 2-5%
			4						4	Celt lac			5 5-10%
			7	4					7	Ligu sin			6 10-25%
							5		5	Ampel arb			7 25-50%
							4		4	Loni jap			8 50-75%
				2			5		5	Toxi rad			9 75-95%
					2				2	Hede hel			10 >95%
	4	3	1						5	Acer neg			
	4	2							4	Ulmus alb			
		4	3						5	Prun car			
					2				2	Coccyz can			
					3				3	Cyrt For			
					7				7	Arum gig			
			3						3	Querc nig			

SPECIES AND COVER/ABUNDANCE CLASS BY STRATUM											Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
T 1	T 2	T 3	S 1	S 2	H	N	V	E						
					1				1	Aslm tri				
							3		3	Coc car				
					1				1	Pass lut				
							4		4	Viti cin				
		4							4	Jupi vlr				
							3		3	Part qui				
					2				2	Robu ary				
					2				2	Epa 18c				
					2				2	Elp car				

Cover classes	
1.	trace
2.	0.1-1%
3.	1-2%
4.	2-5%
5.	5-10%
6.	10-25%
7.	25-50%
8.	50-75%
9.	75-95%
10.	> 95%

T1: Emergent
T2: Tree Can
T3 Subcanopy
S1 Tall Shrub
(> 1m; to 5m)
S2 Short Shrub
(< 1m)
H Herbaceous
N Nonvascular
V Vines (lianas)
E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

County: WARREN Park: NATR VICK Plot Code: V63 State: AL MS TN Location org: NPSProvisional community name Grass Hole?Classified community name Liriodendron tulipifera / (Cercis canadensis) (Lindera benzoin) ForestClassifier CWNDate 5/18/2005NVC ELCODE 7220Survey date: 9/10/04 Surveyors initials: A SCHOLTZ, E. LUNSFORDTagged tree is a NO TAG of cm dbh with tag # . Center of 20 x 50m plot is at a bearing of degrees and m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

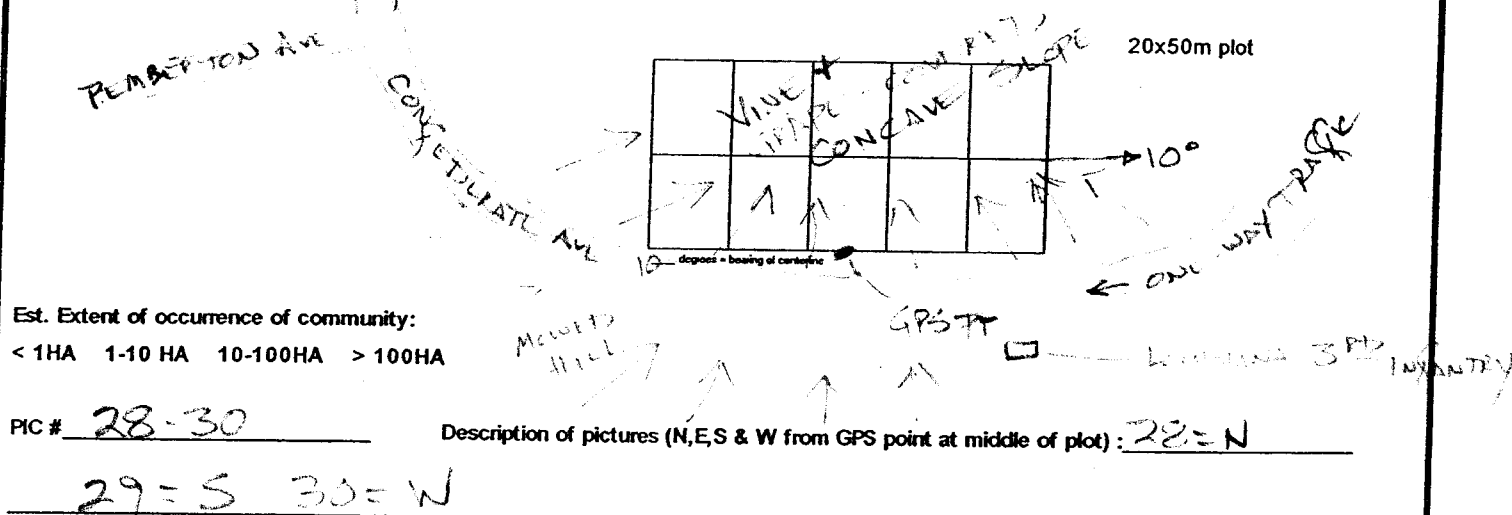
PARK NEAR JUNCTION OF PEMBERTON + CONFEDERATE AVENUE. WALK
N BACK DOWN CONFEDERATE AVE (CA. 50M). PLOT IS ON
W SIDE OF CONFEDERATE AVE.

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - is the surrounding area all the same? YES NO - If not, depict below)

PLOT LOCATION (Below show general plot location)

Select one: UTM OR Lat/long (If lat/long, then values are 32 35293 N 90.84476 W)GPS Techniques/Equipment Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD27 UTM Zone: 15 16GPS Unit ID GPS file name V63 (standard = First letter of park + # of plot (N04 or V04))Field UTM X m E Y m N Elevation m / ftAveraging performed (at least 120 observations)? Coordinate accuracy 5 m / ft DOP 1.2 # sats 8

County: _____ Park: NATR VICK Plot Code: V53 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>30</u> ° _____ % _____ Flat 0 ° 0 % _____ Gentle 0-5 ° 1-9 % _____ Moderate 6-14 ° 10-25 % _____ Somewhat steep 15-25 ° 26-49 % ☒ Steep 27-45 ° 50-100 % _____ Very steep 45-69 ° 101-275 % _____ Abrupt 70-100 ° 276-300 % _____ overhng/shltd > 100 ° > 300 %	Measured Aspect <u>280</u> ° (N=0 °) _____ Flat _____ SE 113-157 ° _____ Variable _____ S 158-202 ° _____ N 338-22 ° _____ SW 203-247 ° _____ NE 23-67 ° ☒ W 248-292 ° _____ E 68-112 ° _____ NW 293-337 °	Topographic Position _____ Interfluv (Ridge/summit/crest) _____ Toeslope ☒ High Slope (upper/convex slope) _____ Midslope _____ Low level (terrace) _____ Lowslope (lower/footslope) _____ Channel bed Cowardin System ☒ Upland _____ Palustrine _____ Estuarine _____ Lacustrine _____ Riverine
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Landform (check most applicable) _____ Alluvial flat _____ Alluvial terrace _____ Bald _____ Bank _____ Bar _____ Bench _____ Bottomlands _____ Cliff	_____ Cove _____ Depression _____ Draw _____ Exogenous dome _____ Floodplain _____ Gap _____ Gorge _____ Hillslope bedrock outcrop _____ Midslope _____ Nose slope	_____ Ridge _____ Ridgetop bedrock outcrop _____ Saddle _____ Seep _____ Toe slope ☒ Slope <u>CONCAVE</u> _____ Streambed _____ Streamhead _____ Periglacial boulderfield _____ Ravine
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Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
 _____ Intermittently flooded _____ Permanently flooded _____ Semipermanently flooded _____ Temporarily Flooded (e.g. floodplains)
 _____ Seasonally Flooded (e.g. seasonal ponds) _____ Saturated (e.g. bogs, perennial seeps) _____ Unknown _____ Irregularly flooded _____ Irreglry exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture:

_____ Sand _____ Peat ☒ Silt loam _____ Muck
 _____ Sandy loam _____ Loam _____ Clay loam _____ Clay

Drainage:

_____ Rapidly drained _____ Moderately well drained _____ Somewhat poorly drained
☒ Well drained _____ Poorly drained _____ Very poorly drained

Ground cover UNVEGETATED - 0%

_____ % Bedrock _____ % Litter, duff _____ % Other _____
 _____ % Large rocks (cobbles, boulders > 10cm) _____ % Wood (> 1 cm)
 _____ % Small rocks (gravel, 0.2-10 cm) _____ % Water
 _____ % Sand (0.1-2 mm) _____ % Bare soil

Leaf type:

☒ Broad-leaved
 _____ Needle-leaved
 _____ Microphyllous
 _____ Graminoid
 _____ Broad-leaved herbaceous
 _____ Pteridophyte
 _____ Extremely xeromorphic
 _____ Mixed

Leaf phenology (dominant stratum)

_____ Evergreen
☒ Cold-deciduous
 _____ Drought-deciduous
 _____ Mixed evergreen-cold-deciduous
 _____ Mixed evergreen drought deciduous
 _____ Herb - Annual
 _____ Herb - Perennial

Physiognomic Class

_____ Forest (closed tree canopy)
 _____ Woodland (open tree canopy)
 _____ Shrubland
 _____ Dwarf Shrubland
 _____ Herbaceous (less than 25% woody layers)
 _____ Nonvascular
 _____ Sparse Vegetation
 _____ VINE

Natural and Anthropogenic Disturbance

_____ logging _____ fire _____ Hydrologic
 _____ erosion _____ trails/roads _____ Agriculture
 _____ grazing/browsing _____ wind/ice damage _____ Old Growth
 _____ pine bark beetle _____ exotic plants _____ Fire Suppression
 _____ dogwood anthr _____ ORV

Disturbance and animal use comments:

VICK.38

County: Walton Park: NATR (VICK) Plot Code: 163 State: AL (MS TN) Location org: NPS

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	10-15m	10%	Liriodendron tulipifera - 10%	.5-1m	10%
Understory T3	—	—		1-2m	20%
Tall shrub S1	2-5m	10%	tall shrubs sparse; coverage = 10%	2-5m	30%
Short shrub S2	.5-1m	5%	short shrubs sparse; total cover = 5%	5-10m	40%
Herbaceous	—	—		10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana		100%	Asplenium cordatum - 40%, Vitis cinerea - 30%, Polygnum convuloides - 30%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

[illegible]

County: WALTON Park: NATR VICK Plot Code: V64 State: AL MS TN Location org: NPSProvisional community name LOBLODY PINE - PLANTEDClassified community name Pinus taeda planted ForestClassifier CWNDate 9/15/2004NVC EL CODE 7179Survey date: 9/11/04Surveyors initials: AL SCHOTZ, ERIN LUNSFORDTagged tree is a NO TAG of cm dbh with tag # . Center of 20 x 50m plot is at a bearing of degrees and m from tree.

Directions to tag tree (including any notes on best access route, and mile marker):

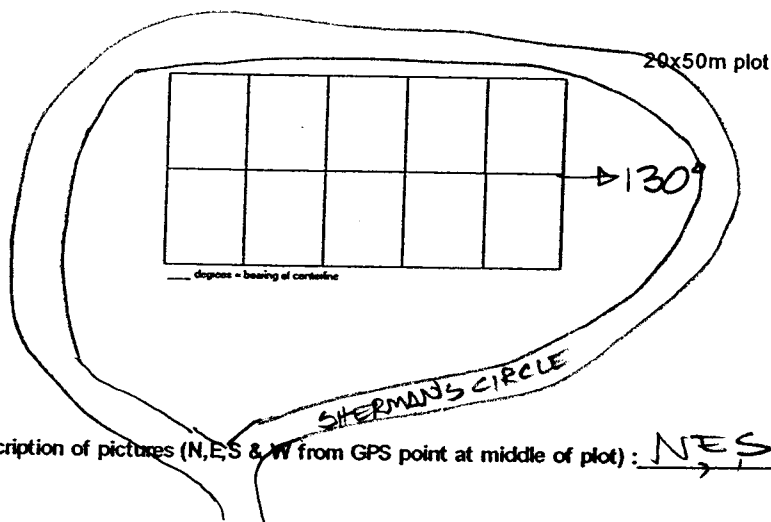
DRIVE TO NE REGION OF PARK, TO SHERMAN'S CIRCLE. PLOT IS UNDER PINES ON NE LENGTH OF GRASSY KNOLL.FROM ^{TAG} MONUMENT TO INDIANA'S 100TH INFANTRY, PLOT CENTER IS 318° + 21 M.

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness -Is the surrounding area all the same? YES NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 31-34Description of pictures (N, E, S & W from GPS point at middle of plot): N, E, S, WSelect one: UTM OR (Lat/long) (If lat/long, then values are 32.37656 N -90.83741 W)GPS Techniques/Equipment: Garmin III+

Garmin V

Datum (pick one) WAB84WAB84NAD83 OR NAD27UTM Zone: 15 16GPS Unit ID GPS file name V64

(standard = First letter of park + # of plot (N04 or V04))

Field UTM X m E Y m N Elevation m / ftAveraging performed (at least 120 observations)? 165 Coordinate accuracy 11 (m) ft DOP 3.2 # sats 6

County: WAFB Park: NATR VICK Plot Code: V64 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope ° % Flat <u>Variable</u> 0° 0% Gentle 0-5° 1-9% Moderate 6-14° 10-25% Somewhat steep 15-25° 26-49% Steep 27-45° 50-100% Very steep 45-69° 101-275% Abrupt 70-100° 276-300% Overhanging/shielded >100° >300%	Measured Aspect ° (N=0°) Flat SE 113-157° Variable S 158-202° N 338-22° SW 203-247° NE 23-67° W 248-292° E 68-112° NW 293-337°	Topographic Position Interfluvium (Ridge/summit/crest) Toeslope High Slope (upper/convex slope) Midslope Low level (terrace) Low slope (lower/footslope) Channel bed Cowardin System Upland Palustrine Estuarine Lacustrine Riverine
Landform (check most applicable) Alluvial flat Alluvial terrace Bald Bank Bar Bench Bottomlands Cliff	Cove Depression Draw Exogenous dome Floodplain Gap Gorge Hillslope bedrock outcrop Midslope Nose slope	Ridge Ridgetop bedrock outcrop Saddle Seep Toe slope Slope Streambed Streamhead Periglacial boulderfield Ravine

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

A GRASSY KNOLL SURROUNDED BY A PAVED LOOP RD - SHERMAN'S CIRCLE.
 PLANTED w/ EVERGREENS

Soil Texture:

Sand Peat Silt loam Muck
 Sandy loam Loam Clay loam Clay

Drainage:

☒ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☒ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

% Bedrock
 % Large rocks (cobbles, boulders > 10cm)
 % Small rocks (gravel, 0.2-10 cm)
 % Sand (0.1-2 mm)
 % Litter, duff
 % Wood (> 1 cm)
 % Water
 % Bare soil

Leaf type:

Broad-leaved
☒ Needle-leaved
 Microphyllous
 Graminoid
 Broad-leaved herbaceous
 Pteridophyte
 Extremely xeromorphic
 Mixed

Leaf phenology (dominant stratum)

☒ Evergreen
 Cold-deciduous
 Drought-deciduous
 Mixed evergreen-cold-deciduous
 Mixed evergreen drought deciduous
 Herb - Annual
 Herb - Perennial

Physiognomic Class

☐ Forest (closed tree canopy)
☒ Woodland (open tree canopy)
 Shrubland
 Dwarf Shrubland
 Herbaceous (less than 25% woody layers)
 Nonvascular
 Sparse Vegetation

Natural and Anthropogenic Disturbance

logging fire Hydrologic
 erosion trails/roads Agriculture
 grazing/browsing wind/ice damage Old Growth
 pine bark beetle exotic plants Fire Suppression
 dogwood anthr ORV

Disturbance and animal use comments:

AN ARTIFACT OF HUMAN DISTURBANCE
 TREES WERE PLANTED; GRASS IS
 MAINTAINED

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.39

Page 3

County: Walton Park: NATR VICK Plot Code: V64 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2	20-30m	50%	Pinus taeda - 50%	.5-1m	10%
Understory T3	10-15m	20%	Juniperus virginiana - 20%	1-2m	20%
Tall shrub S1	—	—		2-5m	30%
Short shrub S2	—	—		5-10m	40%
Herbaceous	—	—	Paspalum notatum - 60%	10-15m	50%
Non-vascular	—	—		15-20m	60%
Vine/liana	—	5%	Parthenocissus quinquefolia - 5%	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?
7									7	Pinu ta		
	6								6	Jun vir		
				8					8	Pasp not		
				3					3	Vio sor		
				5					5	Digi fil		
				2					2	Opi set		
							4		4	Part qui		
							2		2	Smil ben		
							1		1	Smil gla		
			2						2	Toxi rad		
							2		2	Loni jap		
				2					2	Cann asi		
				1					1	Care che		
				1					1	Oxal dil		
							2		2	Viti cin		
		2							2	Ulm al		
				1					1	Lact flo		

Cover cls

- 1 trace
- 2 0.1-1%
- 3 1-2%
- 4 2-5%
- 5 5-10%
- 6 10-25%
- 7 25-50%
- 8 50-75%
- 9 75-95%
- 10 >95%

County: WARREN Park: NATR VICK Plot Code: V65 State: AL MS TN Location org: NPSProvisional community name SUMAC SHRUBLAND

Classified community name

NLCD (1992) COVER CLASS #51 SHRUBLAND (deciduous)

Classifier

CWN

Date

NVC ELCODE

Survey date: 9/11/04Surveyors initials: AS, ELTagged tree is a NO TAG of 10x30 cm dbh with tag # . Center of 20 x 50m plot is at a bearing of degrees and m from tree.

Directions to tag tree (including any notes on best access route, and mile marker): ON CONFEDERATE AVENUE HEADING
E, PARK AT PULLOVER OVERLOOKING THAYER'S APPROACH (ONE OF SIGNS = RED
"CONFEDERATE LINE - 26th LOUISIANA"). WALK^N DOWN HILL ON RIGHT (EASTMOST)
SIDE OF CLEARING, DOWN TO SUMAC SHRUBLAND ON LEFT (W-FACING SLOPE
OF RAVINE)

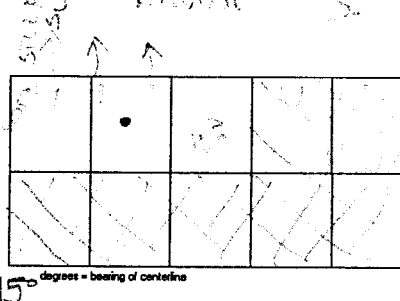
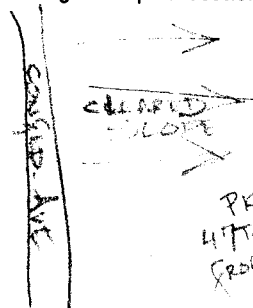
FROM BROWN MONUMENT TO MISSOURI 17th INFANTRY, CENTER OF PLOT IS 240°
10.5m

Time taken to walk to plot:

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES NO - If not, depict below

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # Description of pictures (N,E,S & W from GPS point at middle of plot): 47 = FROM OUTSIDESECOND PLOT, LOOKING N AT PLOTSelect one: UTM OR Lat/long (If lat/long, then values are 32.37253 N -90.85024 WWGS 84GPS Techniques/Equipment: Garmin III

Garmin V

Datum (pick one) NAD 83 OR NAD27UTM Zone: 15 16GPS Unit ID

GPS file name

V65

(standard = First letter of park + # of plot (N04 or V04))

Field UTM X

m E

Y

m N

Elevation

m / ft

Averaging performed (at least 120 observations)? 20%Coordinate accuracy 8

m / ft

DOP 2.0# sats 6

County: Waller Park: NATR VICK Plot Code: V65 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>18</u> ° <u> </u> % ☐ Flat 0 ° 0 % ☐ Gentle 0-5 ° 1-9 % ☐ Moderate 6-14 ° 10-25 % ☒ Somewhat steep 15-25 ° 26-49 % ☐ Steep 27-45 ° 50-100 % ☐ Very steep 45-69 ° 101-275 % ☐ Abrupt 70-100 ° 276-300 % ☐ ovrhng/shltd >100 ° >300 %	Measured Aspect <u>240</u> (N=0 °) ☐ Flat <u>SE</u> 113-157 ° ☐ Variable <u>S</u> 158-202 ° ☐ N 338-22 ° <u>SW</u> 203-247 ° ☐ NE 23-67 ° <u>W</u> 248-292 ° ☐ E 68-112 ° <u>NW</u> 293-337 °	Topographic Position ☒ Interfluv (Ridge/summit/crest) <u> </u> Toeslope ☐ High Slope (upper/convex slope) ☐ Midslope <u> </u> Low level (terrace) ☐ Lowslope (lower/footslope) <u> </u> Channel bed Cowardin System ☒ Upland <u> </u> Palustrine ☐ Estuarine <u> </u> Lacustrine <u> </u> Riverine
--	--	---

Landform (check most applicable) ☐ Alluvial flat ☐ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☐ Bottomlands ☐ Cliff	☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope	☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☒ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine
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Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC)
☐ Intermittently flooded Permanently flooded Semipermanently flooded Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) Saturated (e.g. bogs, perennial seeps) Unknown Irregularly flooded Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

No erosion observed. Heavily regulated, flow = greatly precluding any potential for erosion.

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Community is an artifact of human disturbance - cleared by Park service to enhance visual effect of battersfield.

Soil Texture: ☐ Sand <u> </u> Peat ☒ Silt loam <u> </u> Muck ☐ Sandy loam <u> </u> Loam <u> </u> Clay loam <u> </u> Clay	Drainage: ☐ Rapidly drained <u> </u> Moderately well drained <u> </u> Somewhat poorly drained ☒ Well drained <u> </u> Poorly drained <u> </u> Very poorly drained
--	---

Ground cover

☐ % Bedrock % Litter, duff % Other
☐ % Large rocks (cobbles, boulders >10cm) % Wood (> 1 cm)
☐ % Small rocks (gravel, 0.2-10 cm) % Water
☐ % Sand (0.1-2 mm) % Bare soil

Leaf type: ☒ Broad-leaved ☐ Needle-leaved ☐ Microphyllous ☐ Graminoid ☐ Broad-leaved herbaceous ☐ Pteridophyte ☐ Extremely xeromorphic ☐ Mixed	Leaf phenology (dominant stratum) ☒ Evergreen ☐ Cold-deciduous ☐ Drought-deciduous ☐ Mixed evergreen-cold-deciduous ☐ Mixed evergreen drought deciduous ☐ Herb - Annual ☐ Herb - Perennial	Physiognomic Class ☐ Forest (closed tree canopy) ☐ Woodland (open tree canopy) ☒ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous (less than 25% woody layers) ☐ Nonvascular ☐ Sparse Vegetation
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Natural and Anthropogenic Disturbance ☐ logging <u> </u> fire <u> </u> Hydrologic ☐ erosion <u> </u> trails/roads <u> </u> Agriculture ☐ grazing/browsing <u> </u> wind/ice damage <u> </u> Old Growth ☐ pine bark beetle <u> </u> exotic plants <u> </u> Fire Suppression ☐ dogwood anthr <u> </u> ORV	Disturbance and animal use comments: Association is an artifact of anthropogenic disturbance.
---	---

QUANTITATIVE VEGETATION SAMPLE

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

Community Survey
Page 3

WARREN County: WARREN Park: NATR VICK Plot Code: V66 State: AL MS TN Location org: NPS

Provisional community name _____

Classified community name Liriodendron tulipifera / (Cercis canadensis) / (Lindera benzoin) ForestClassifier CWNDate 5/18/2005NVC EL CODE 722pSurvey date: 28 SEPT 2004 Surveyors initials: MP, KF

Tagged tree is a ULMUS AME of 10.1 INCH cm dbh with tag # 307 Center of 20 x 50m plot is at a bearing of 300 degrees and 4 m from tree. TAG ON NE (UPHILL) SIDE OF TREE

Directions to tag tree (including any notes on best access route, and mile marker):

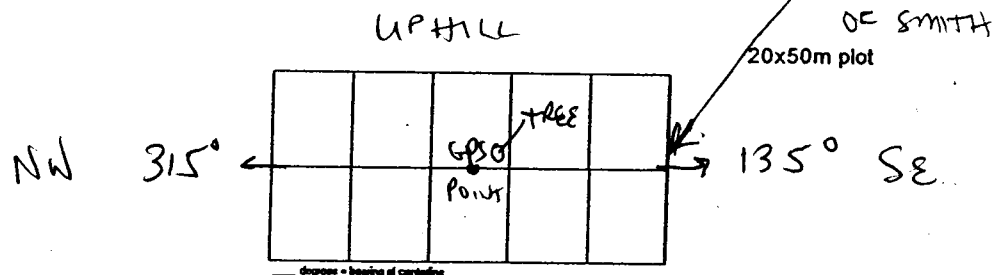
PARK AT 280 MISSISSIPPI PLAZUE NEAR (W OF) JCT GRAVEYARD RD
 CONFEDERATE AVE, WALK BACK W ON Rd ca 30m and drop into woods
 Below BUST OF MARTIN L. SMITH. GO CA. E 50m from Bust
 (FIND BREAK IN RUBUS OR MAKE ONE) TO SE END OF PLOT.
 you can follow NW-SE "TONGUE" of land and drop off S/SW
 into plot

Time taken to walk to plot: 3 MINUTE - 5 MIN

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? ☒ YES ☐ NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # _____

Description of pictures (N, E, S, W from GPS point at middle of plot): 9, 10, 11, 12Select one: UTM OR Lat/long (If lat/long, then values are 32.37070 N 090.84725 W)WGS84GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83_OR_NAD27 UTM Zone: 15 16GPS Unit ID 3 GPS file name V66 (standard = First letter of park + # of plot (N04 or V04))Field UTM X 3 m E Y _____ m N Elevation _____ m / ftAveraging performed (at least 120 observations)? (250) yes Coordinate accuracy 7.4 m DOP 1.7 # sats 4

County: _____ Park: NATR VICK Plot Code: V66 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>30</u> ° <u>0</u> % Flat 0° 0% Gentle 0-5° 1-9% Moderate 6-14° 10-25% Somewhat steep <u>15-25°</u> 26-49% Steep <u>27-45°</u> 50-100% Very steep 45-69° 101-275% Abrupt 70-100° 276-300% Overhanging/vertical > 100° > 300%	Measured Aspect <u>225</u> ° (N=0°) Flat SE 113-157° Variable S 158-202° N 338-22° ☒ SW 203-247° NE 23-67° W 248-292° E 68-112° NW 293-337°	Topographic Position Interfluvium (Ridge/summit/crest) _____ Toeslope High Slope (upper/convex slope) _____ Midslope _____ Low level (terrace) Low slope (lower/footslope) _____ Channel bed Cowardin System ☒ Upland _____ Palustrine Estuarine _____ Lacustrine _____ Riverine
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Landform (check most applicable) Alluvial flat Alluvial terrace Bald Bank Bar Bench Bottomlands Cliff	☒ Cove Depression Draw Exogenous dome Floodplain Gap Gorge Hillslope bedrock outcrop Midslope Nose slope	Ridge Ridgetop bedrock outcrop Saddle Seep Toe slope Slope Streambed Streamhead Periglacial boulderfield Ravine
--	---	--

Rock types present:

Hydrologic Regime (check only for wetlands)

☒ Not a wetland (Upland: XERIC : DRY - MESIC MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY:

Mesic upland - concave land form

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Probably originally oak-dominated - Now more successional species (Liriodendron)

large dead (old) Juniper in plot

Soil Texture: (Loess)
 Sand _____ Peat _____ Silt loam _____ Muck _____
 Sandy loam ☒ Loam _____ Clay loam _____ Clay _____

Drainage:

☒ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☒ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

_____ % Bedrock 50 % Litter, duff _____ % Other _____
 _____ % Large rocks (cobbles, boulders > 10cm) 20 % Wood (> 1 cm) _____
 _____ % Small rocks (gravel, 0.2-10 cm) _____ % Water _____
 _____ % Sand (0.1-2 mm) 30 % Bare soil _____

Leaf type:

☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☐ Evergreen
☒ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☒ logging _____ fire _____ Hydrologic
☒ erosion _____ trails/roads _____ Agriculture
☐ grazing/browsing _____ wind/ice damage _____ Old Growth
☐ pine bark beetle _____ exotic plants ☒ Fire Suppression
☐ dogwood anthr _____ ORV

Disturbance and animal use comments:

County: WARR Park: NATR VICK Plot Code: V66 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1			<u>LIRI TUL</u>	< .5m	5%
Tree Canopy T2	<u>35</u>	<u>60</u>	<u>ALBISTYLE</u> , <u>LIQUSTY</u>	.5-1m	10%
Understory T3	<u>15-20</u>	<u>60</u>	<u>ACER NEG</u>	1-2m	20%
Tall shrub S1	<u>2-5</u>	<u>60</u>	<u>ASIM TRL</u> , <u>LIGU TRL</u> , <u>ARMGIG</u>	2-5m	30%
Short shrub S2	<u>1.5-1</u>	<u>40</u>	<u>LIGU</u> , <u>ASIM TRL</u> , <u>NANDOM</u>	5-10m	40%
Herbaceous	<u><.5</u>	<u>30</u>	<u>ATHY FILA</u> , <u>CYST PROT</u>	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana	<u>20-35</u>	<u>10</u>	<u>VITIS CIN</u> , <u>TOXIRAB</u>	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T1	T2	T3	S1	S2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	7								7	LIRI TUL			1 trace
		4		2					4	ALBI JUL			2 0.1-1%
		5							5	QUERC MICHL ? *	C		3 1-2%
		7							7	ACER NEG			4 2-5%
			4	4					5	ASIM TRL			5 5-10%
						(4)			4	VITIS CIN			6 10-25%
				2					2	PRUN CAR			7 25-50%
6									6	LIQUSTY			8 50-75%
	3								3	MORN RUS			9 75-95%
5									5	FRAX AME			10 >95%
	3								3	ULMUS AME			
4									4	QUERC NIG			
										~~SMOOTH BIG VINE~~			* COULDN'T SEE LEAVES
								3	3	VITIS ROT			
		2							2	CELT LAEV ~~ROT~~			
			1						1	DIOS VIR			
					3				3	POU ACR			

County: WALTON Park: NATR VICK Plot Code: V66 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
					3				3	PASS LUT		
					4				4	CYST PEAT		
					3				3	~~Diplazium pinnatifidum~~ "slender fern"	C	
					4				4	ATTEN FINE ASP	C	
			2						2	NAND DON		
					4				4	LONG JAP		
					3				3	BOETH CUL		
					2				2	CAREX SP		
			3	4					4	LIGUL ~~THE~~ SIN		
					2				2	CYST "FORT" ~~Symposium~~ ~~Jap Holly fern~~		
					2	5			5	TOXIRAS		
					1				1	SANICULA CAN	E	✓
					2				2	ASPL PLATY		
					2				2	COCC CAR		
					2				2	AGER ALT ~~W. B. D.~~ !	E	✓
			6						6	ARMN BIG X		
				2					2	FLAISH INC (= EUPA)		
				2					2	OPLI SET (hickories B. D.)		
					4	4			4	PART QUE		
					2				2	SYMP DRUMM		
					2				2	SOLA PTYC		
					5				5	HEDA HEL		
					2				2	PIERIS MULTIFIDA "W. E. R. D. K. R. N."	C	
					2				2	SMIL ~~ASP~~ = SMIL TAM		
			5						5	~~NOTHER BAMB~~		
					2				2	BIGN CAP		

Cover classes

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub

(>1m; to 5m)

S2 Short Shrub

(< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

* 30-40% ?
"Aquilemaria" may be
an exotic look-alike with
HSPIN RESISTANT PATE TAN
STREETS & generally living
along - roads as "other"
Bambusa

NO-L (W)
It is all Aquilemaria
Bignonia

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.67

Page 1

County: WARREN Park: NATR (VICK) Plot Code: V67 State: AL (MS) TN Location org: (NPS)Provisional community name Liquidambar styraciflua - Carya illinoensis - Quercus nigra ForestClassified community name NewClassifier CWN

Date

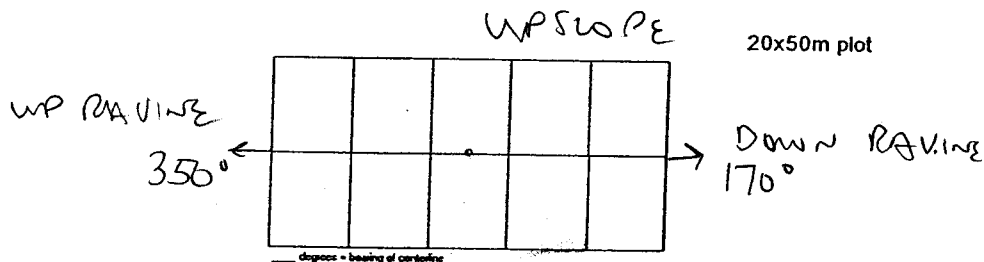
NVC ECODE

CEGL004122Survey date: 28 Sep. 2004 Surveyors initials: MP 6 PM EDTTagged tree is a QUERC N16 of 48 cm dbh with tag # 308. Center of 20 x 50m plot is at a bearing of 340 degrees and 5.3 m from tree.Directions to tag tree (including any notes on best access route, and mile marker): go just past 1st bridge past
Hayens, Park Post "DO NOT ENTER" gate (road to Boy
Scout Campsite Area) WALK IN TO FIRE RANG (P) ON RIGHT (SET OF
GREEN POSTS IN FRONT OF EMBANKMENT - WALK UP PAVINE
PAST EMBANKMENT CA 20 M TO TREETime taken to walk to plot: 4-5 MINUTES from car (under Walnut tree in Rd)

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? (YES) NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA (1-10 HA) 10-100HA > 100HAPIC # 24, 25, 26, 27Description of pictures (N, E, S & W from GPS point at middle of plot): VIEWS ofPlot & vicinity from TOPE N-24, E-25, S-26, W-27Select one: UTM (OR Lat/long) (If lat/long, then values are 32.37605 N 090.85011 W)

GPS Techniques/Equipment: Garmin III+

Garmin V

Datum (pick one) (WGS84) NAD 83 OR NAD27

UTM Zone: 15 16

Garmin # 3GPS Unit ID 3GPS file name V67

(standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ftAveraging performed (at least 120 observations)? _____ Coordinate accuracy 6.2 m / ft DOP 2.2 # sats 6

Community Survey

Page 1

End 12/1/04
2000
vd

ENVIRONMENTAL / SITE INFORMATION

Community Survey
Page 2

County: WARREN Park: NATR VICK Plot Code: V67 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1			<i>CO. RASE CANOPY & SUBCAN</i> <i>DOMINANT VERY SUBJECTIVE</i>	< .5m	5%
Tree Canopy T2	20-35	70	QUER NIG, CELTIS LAEV, LIQUSTY	.5-1m	10%
Understory T3	10-15	50	ULMUS AME RUB, QUERMICH.	1-2m	20%
Tall shrub S1	2-5	60	PONCTRI, LIGU VUL SIN	2-5m	30%
Short shrub S2	.5-1	30	LIGU VUL, 1 LIGUSIN	5-10m	40%
Herbaceous	<.5	30	CYST PROT	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana	15-20	20	VITIS CIN, PART QUE, BERSCA	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	6	4	2						6	QUER NIG			1 trace
	5	5							6	LIQUSTY			2 0.1-1%
	4	2	2						4	ULMUS RUB			3 1-2%
	4								4	MORUS RUB			4 2-5%
					2				2	ACER NEG			5 5-10%
	3	4							4	QUER MICH / AME	☒	☒	6 10-25%
				2					2	ASMITRI			7 25-50%
	4								4	LIRI TUL			8 50-75%
	3	4							4	ACER NEG			9 75-95%
		4							4	QUERCUS RUBRA (Amel.)	☒		10 >95%
	5	5							6	CELTIS LAEV			
	4								4	CARYA CORO!	☒	☒	
	3	2							3	ULMUS AME			
							4		4	VITIS CIN - dup. next page			
		6							6	LIGU VUL SIN			
		4							4	PONCTRI			

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.67

Page 4

County: Warren Park: NATR VICK Plot Code: V 67 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discar ded?
					1				1	PHARY LEP		
					3				3	TOXI RAD		
					2				2	SYMP DRUM		
					1				1	APUS DRAC		
					2				2	POLY ACR		
					3				3	CYST PROT		
					3				3	ASPL PLA		
			6						6	ARMN GIB		
			5						5	~~"DIPAL" BOMBAD~~ *		
					2				2	NAND DOM		
					1				1	SANICULA SP		
					1				1	OPLI SET = ^{guy} Oplismenus h. kelus		
			2						2	SAMB CAN		
			3			2			4	PART QUE		
			3						4	LOWI JAP		
					2				2	BIBN CAP		
					1				1	ASTER (SYMP) ^{not in com} _{Symphoricarpos}	✓	
					1				1	CAREX SP _{viridula}		
						2			2	VHIS CIN		
			2						2	POSSLUT		
					2				2	ALBIZ JUL		
	3		2						3	SMIL GLAN +		
					2				2	PTERIS MULTIFID ^{WERN} _{FE 2} *		
					1				1	LACT FLO		
			2						2	ULMU RUB		
			2						2	PHAS POL ?	C	
						3			3	VITI BOT		
					2				2	CYST FORT	✓	✓
					1				1	OVAL DILL ? = strick		
					1				1	CACC CAR		
					1				1	MATREES SP		
						2			2	GERC SCA		
					1				1	POLY VIRG		
					1				1	SMALL UVER		
			1						1	PRUN CARZ		

Cover classes

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub

(>1m; to 5m)

S2 Short Shrub

(< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

* coll @
V66

+ POSS NEW
to park,
Not coll

Use bottom of this sheet or additional pages for other species in 1 ha plot

				1				1				
--	--	--	--	---	--	--	--	---	--	--	--	--

SYMPHIOTRICHUM
Community Survey

C

County: Wann Park: NATR VICK Plot Code: V68 State: AL MS TN Location org: NPS

10 AM

Provisional community name Quercus muhlenbergiiClassified community name Liquidambar styraciflua - Carya illinoensis - Quercus nigra ForestClassifier 37Date 3/17/2006

NVC EL CODE

CEGL004122Survey date: 29 SEPT 2004 Surveyors initials: MPTagged tree is a CERC CAN of 27 cm dbh with tag # 309. Center of 20 x 50m plot is at a bearing of 11 degrees and 1.9 m from tree. TAG ON E (DOWN RIDGE) SIDE OF TREE

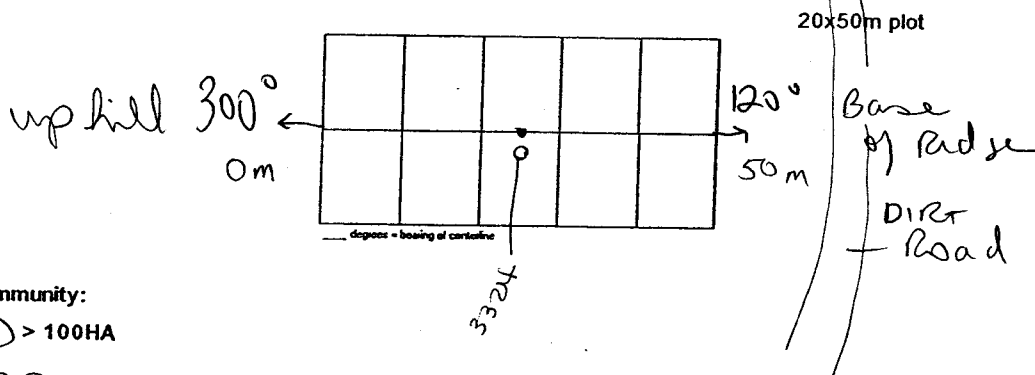
Directions to tag tree (including any notes on best access route, and mile marker): CROSS FIRST BRIDGE BELOW
"THAYERS APPROACH" (GATED ROAD IS JUST PAST THIS BRIDGE). go forward,
park under Black Walnut tree before second bridge. Walk back to "DO NOT
ENTER" GATE AT 1ST BRIDGE and walk into Boy Scout camping area.
WALK IN BOWNG ROAD, ASCEND RIDGE ON LEFT THAT MEETS
ROAD. PLOT BEGINS NEAR LARGE QUERCUS MUHL and goes
up spine of ridge

Time taken to walk to plot: 4-5 MINUTES

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HAPIC # 35, 36, 37, 38Description of pictures (N, E, S & W from GPS point at middle of plot): generalviews from center point: N=35, E=36, S=37, W=38Select one: UTM OR Lat/long (If lat/long, then values are 32.37518 N 090.85051 W)GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) WGS 84 NAD 83 OR NAD 27 UTM Zone: 15 16GPS Unit ID 3 GPS file name V68 (standard = First letter of park + # of plot (N04 or V04))Field UTM X _____ m E Y _____ m N Elevation 105 m/ftAveraging performed (at least 20 observations)? 382 Coordinate accuracy 7 m/ft DOP 1.4 # sats 5

County: WARR Park: NATR VICK Plot Code: V68 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>21</u> ° <u>21</u> % Flat 0° 0% Gentle 0-5° 1-9% Moderate 6-14° 10-25% ☒ Somewhat steep 15-25° 26-49% Steep 27-45° 50-100% Very steep 45-69° 101-275% Abrupt 70-100° 276-300% Overhanging/shielded >100° >300%	Measured Aspect <u>115</u> ° (N=0°) Flat SE 113-157° ☒ Variable S 158-202° N 338-22° SW 203-247° NE 23-67° W 248-292° E 68-112° NW 293-337° Aspect of center line = <u>115</u>	Topographic Position ☒ Interfluvial (Ridge/summit/crest) Toeslope High Slope (upper/convex slope) Midslope Low level (terrace) Low slope (lower/footslope) Channel bed Cowardin System ☒ Upland Palustrine Estuarine Lacustrine Riverine
---	---	---

Landform (check most applicable) Alluvial flat Alluvial terrace Bald Bank Bar Bench Bottomlands Cliff	Cove Depression Draw Exogenous dome Floodplain Gap Gorge Hillslope bedrock outcrop Midslope Nose slope	☒ Ridge Ridgetop bedrock outcrop Saddle Seep Toe slope Slope Streambed Streamhead Periglacial boulderfield Ravine
--	---	--

Rock types present: River Gravel @ Base of Slope (on (2000) exogenous?)

Hydrologic Regime (check only for wetlands)
☒ Not a wetland (Upland: XERIC: DRY - MESIC MESIC)
 Intermittently flooded Permanently flooded Semipermanently flooded Temporarily Flooded (e.g. floodplains)
 Seasonally Flooded (e.g. seasonal ponds) Saturated (e.g. bogs, perennial seeps) Unknown Irregularly flooded Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: MODERATELY DRY SLOPES

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

PLOT IS ON RIDGE - SLOPE VARIES. MEASUREMENT TAKEN ON
TAPE AT 36 M. POINT. SIDES ARE STEEPER

Soil Texture: <u>Loess</u> Sand Peat Silt loam Muck Sandy loam ☒ Loam Clay loam Clay	Drainage: Rapidly drained ☒ Moderately well drained Somewhat poorly drained Well drained Poorly drained Very poorly drained
---	--

Ground cover

% Bedrock	<u>63</u> % Litter, duff	% Other
% Large rocks (cobbles, boulders > 10cm)	<u>3</u> % Wood (> 1 cm)	
% Small rocks (gravel, 0.2-10 cm)	% Water	
% Sand (0.1-2 mm)	<u>34</u> % Bare soil	

Leaf type: ☒ Broad-leaved Needle-leaved Microphyllous Graminoid Broad-leaved herbaceous Pteridophyte Extremely xeromorphic Mixed	Leaf phenology (dominant stratum) Evergreen ☒ Cold-deciduous Drought-deciduous Mixed evergreen-cold-deciduous Mixed evergreen drought deciduous Herb - Annual Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) Woodland (open tree canopy) Shrubland Dwarf Shrubland Herbaceous (less than 25% woody layers) Nonvascular Sparse Vegetation
---	--	--

Natural and Anthropogenic Disturbance ☒ logging ☒ erosion grazing/browsing pine bark beetle dogwood anthr	fire ☒ trails/roads wind/ice damage exotic plants ORV	Hydrologic Agriculture Old Growth Fire Suppression
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Disturbance and animal use comments:
DEER/FAOT TRAIL IN PLOT
TURKEYS, GRACKLES (?) LINED SNAKE

County: WARR Park: NATR VICK Plot Code: V68 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	
Tree Canopy T2		60	QUERMUHL, QUERNIG ^{LEFT THIS ONE OUT AS CONSIDERING BIK NOT IN T2 DATA BELOW - BCD}	.5-1m	5%
Understory T3		60	MORNRUB, CELT LAEN, CERC CAN	1-2m	10%
Tall shrub S1		50	LIGU ~~WAT~~ SIN	2-5m	20%
Short shrub S2		30	LIGU ~~WAT~~ SIN	5-10m	30%
Herbaceous		50	LONI JAP	10-15m	40%
Non-vascular				15-20m	50%
Vine/liana		10	LONI JAP, TOXIRAS	20-35m	60%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species): QUERMUHL (in canopy) tends to be dominant on convex surfaces; QUERMUHL in tall shrub, SUBCAN, more on side slopes				35-50m	80%
				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (>1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	7								7	QUERMUHL	~~off ground~~		1 trace
		(3) 2							3	QUERMUHL	~~off ground~~		2 0.1-1%
		4 2							4	CERC CAN			3 1-2%
	5								5	GLEO TR			4 2-5%
		7 3							7	MORNRUB			5 5-10%
	5 5								6	CELT LAEN			6 10-25%
			3 3						4	QUERNIG			7 25-50%
				3					3	ACER NEG			8 50-75%
			2 2						2	PRUN SER			9 75-95%
	5								5	ULMU AME			10 >95%
	3	2							3	ULMU ALA			
	3 4								5	LIGU SY			
		2							2	LONI PRAB ? one plant			
		3							3	ULMU RUB			
		2							2	RHAM CAR ~~Frangula californica sp. californica~~			FRAN CAR
		1							1	CARYA ILL			
		5							5	ARUNIG (?) x	C		

County: WARR Park: NATR VICK Plot Code: V68 State: AL MS TN Location org: NPS

of 5

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Dis- carded?
					2				2	GEUM CAN		
					3				3	ELEP CAR <i>elephantopus</i>		
					2				2	SYMPORUM <i>reinentosus</i>		
					2				2	POLY VIR <i>polygnum</i>		
					1				1	ELYMUS <i>virginianum</i>		
					3				3	SYMP	C	
					1				1	ALBI JUL		
					1				1	CAREX SP		
					1				1	HEDE HEL		
					1				1	DICH LONG		
					3				3	AMPE ARB		
					6		3		6	LONI JAP		
					2				2	BIGN CAP		
			5	3					5	LIGU ~~SP~~ SIN		
					2				2	DICHON CAR		
					1				1	MATELEA GONO?		
					2				2	LACT FLO		
					2				2	WIST SIN		
					2				2	CYST PROT		
					2				2	CYST PROT		
					2				2	POSS LUT		
					1				1	WOODS OST	C	
					2				2	FLEISH INC		
					2				2	AGER ALT		
					3		4		5	TOXI RAB		
							4		4	VITIS SP	Clf	
					3				3	PART QUE		
					2		2		2	BERC SCA		
		2	2		1				2	NAND OOM		
					2				2	SMILAX HSP. = SMILTAM		
					2				2	OPLIS SET. = vertellus		
					1				1	SANICULA Can	E	✓
							1			AMPH BRAC <i>Amphicarpaea</i>		
					1				1	SMIL GLA	C	
					2				2	ASPL PLA		

Cover classes

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub

(>1m; to 5m)

S2 Short Shrub

(< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

not coll
for Park
New to
Park

Use bottom of this sheet or additional pages for other species in 1 ha plot

0
ZANTHAME just off (up) plot - collected

Community Survey

Page 4

OVER →

VICK.68

P.5

1/3 4/5 4 NEV E. JORDAN

						1	RUBUS ALBA	
						1	QUER RUB (?)	C
						1	BERA. RABON	
					2	2	COCC CAR	
						2	LIG W LUC ~~SUB?~~	
						2	PONC TRF	
						3	ROSI PSE	
						1	SAMB CAN = nigra sp. canadensis	

County: WARREN Park: NATR VICK Plot Code: V 69 State: AL MS TN Location org: NES 11:30 AM

Provisional community name SWEETGUM SLOPE w/ QUERCUS

Classified community name Liquidambar styraciflua Forest

Classifier ChN Date 16/04/2004 NVC EL CODE CEGL007216

Survey date: 29 Sept 2004 Surveyors initials: MP

Tagged tree is a Liquidambar of 33 cm dbh with tag # 310 Center of 20 x 50m plot is at a bearing of 71 degrees and 6.25 m from tree. Tree on W side of tree.

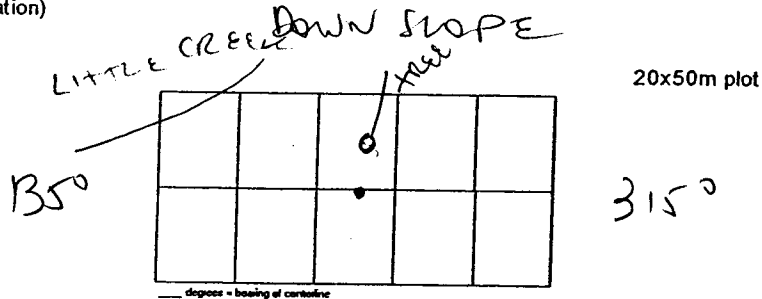
Directions to tag tree (including any notes on best access route, and mile marker): Cross 1st Bridge past
"YANERS APPROACH" (NOTE LOCKED GATE ON L). Park @ JUGLANS N161A
before 2nd BRIDGE. Walk back to gate - Walk in on Road
ca 500 meters? cross creek on L as end slope. Plot
is in SE-NW TRENCH DRAW, ON ± SW FACING SLOPE

Time taken to walk to plot: ca 10 MIN

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? (YES) NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HA

PIC # 39, 40, 41, 42 Description of pictures (N, E, S & W from GPS point at middle of plot): general
View in 4 directions N=39, E=40 S=41 - W=42

Select one: UTM OR Lat/long (If lat/long, then values are 32.37567 N 090.84772 W)

GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) WGS 84 NAD 83 OR NAD27 UTM Zone: 15 16

GPS Unit ID 3 GPS file name V 69 (standard = First letter of park + # of plot (N04 or V04))

Field UTM X _____ m E Y _____ m N Elevation _____ m / ft

Averaging performed (at least 120 observations)? ✓ 300 Coordinate accuracy 9.0 m / ft DOP 3.1 # sats 4

Preceding 4 pics = V69

Community Survey
Page 1

ewh.
RWB
12/25/04
jd

County: WARR Park: NATR VICK Plot Code: V69 State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope <u>22</u> ° <u> </u> % — Flat 0° 0% — Gentle 0-5° 1-9% — Moderate 6-14° 10-25% ☒ Somewhat steep 15-25° 26-49% — Steep 27-45° 50-100% — Very steep 45-69° 101-275% — Abrupt 70-100° 276-300% — Overhanging/shielded >100° >300%	Measured Aspect <u>225</u> ° (N=0°) — Flat — SE 113-157° — Variable — S 158-202° — N 338-22° ☒ SW 203-247° — NE 23-67° — W 248-292° — E 68-112° — NW 293-337°	Topographic Position — Interfluvium (Ridge/summit/crest) — Toeslope — High Slope (upper/convex slope) — Midslope — Low level (terrace) ☒ Low slope (lower/footslope) — Channel bed Cowardin System ☒ Upland — Palustrine — Estuarine — Lacustrine — Riverine
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Landform (check most applicable) — Alluvial flat — Alluvial terrace — Bald — Bank — Bar — Bench — Bottomlands — Cliff ☒ Cove — Depression ☒ Draw — Exogenous dome — Floodplain — Gap — Gorge — Hillslope bedrock outcrop — Midslope — Nose slope	— Ridge — Ridgetop bedrock outcrop — Saddle — Seep — Toe slope ☒ Slope ? — Streambed — Streamhead — Periglacial boulderfield ☒ Ravine ?	how to apply draw vs. cove vs. ravine
---	--	---

Rock types present:

Hydrologic Regime (check only for wetlands)

☐ Not a wetland (Upland: XERIC : DRY - MESIC MESIC)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☐ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: a small creek is in the corner of the plot creek is intended plot would not flood

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture: <u>LOESS</u> — Sand — Peat — Silt loam — Muck — Sandy loam ☒ Loam — Clay loam — Clay	Drainage: ☐ Rapidly drained ☒ Moderately well drained ☐ Somewhat poorly drained ☐ Well drained ☐ Poorly drained ☐ Very poorly drained
---	---

Ground cover ___ % Bedrock ___ % Large rocks (cobbles, boulders >10cm) ___ % Small rocks (gravel, 0.2-10 cm) ___ % Sand (0.1-2 mm)	<u>85</u> % Litter, duff <u>5</u> % Wood (> 1 cm) ___ % Water <u>10</u> % Bare soil	___ % Other
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Leaf type: ☒ Broad-leaved ☐ Needle-leaved ☐ Microphyllous ☐ Graminoid ☐ Broad-leaved herbaceous ☐ Pteridophyte ☐ Extremely xeromorphic ☐ Mixed	Leaf phenology (dominant stratum) ☐ Evergreen ☒ Cold-deciduous ☐ Drought-deciduous ☐ Mixed evergreen-cold-deciduous ☐ Mixed evergreen drought deciduous ☐ Herb - Annual ☐ Herb - Perennial	Physiognomic Class ☒ Forest (closed tree canopy) ☐ Woodland (open tree canopy) ☐ Shrubland ☐ Dwarf Shrubland ☐ Herbaceous (less than 25% woody layers) ☐ Nonvascular ☐ Sparse Vegetation
--	--	--

Natural and Anthropogenic Disturbance ☒ Logging ☒ Erosion ☐ grazing/browsing ☐ pine bark beetle ☐ dogwood anthr	— fire — trails/roads — wind/ice damage — exotic plants — ORV — Hydrologic — Agriculture — Old Growth — Fire Suppression
--	--

Disturbance and animal use comments:

QUANTITATIVE VEGETATION SAMPLE

T	T	T	S	S	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Dis- carded ?
1	2	3	1	2								
	8								8	LIGNSTY		
	5								5	CELT LAEN		
	6	3							6	QUERC PAG	C leaves	
			(3) A						5	ASIM TRI		
		(4)		2					4	QUER MICH *		
			3						3	ULMN AME		
			3						3	FRAX AME		
		4	4						5	MORR RUB		
				4					4	LINO BENZ		
			4						4	ULMH RUB		
				4					4	ACER NEG		
	4			3					5	QUER NIG		
			2	2					3	CARY CORO		
		6								LIRI PUL		

Cover cls
1 trace
2 0.1-1%
3 1-2%
4 2-5%
5 5-10%
6 10-25%
7 25-50%
8 50-75%
9 75-95%
10 >95%

NPS GULF COAST PROJECT: Plot Sampling Form

VICK, GA

Page 4

County: WARR Park: NATR VICK Plot Code: V69 State: AL MS TN Location org: NPS

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
		3							3	~~HYDR~~ ~~ARB~~		
					2				2	SANICAN +	C	
					5				5	~~TOXI~~ RAD		
					7				7	LOXI JAP		
		5							5	ARUN GIG *		
					1				1	CAREX SP		
			2						2	PRUNSER		
					3		2		3	HEDE HEL		
					3				3	CYST PROT		
					2				2	POLY ACR		
		5	4						6	LIGU ~~HALO~~ SIN		
					2				2	ATHY FILA		
					2				2	BOEH CYL		
					2				2	ASPL PLA		
							4		4	VITIS		
					2				2	POLY ACR		
			1						1	BUME LYC = Sideroxylon lycioides		
		2	2						2	PANC TRIF		
					1				1	AGER ART		
			3						3	EMONAME		
			2						2	SAMB CAN nigra sp. canadensis		
			2						2	CERC CAN		
			1	1					1	MATE GONO		
			2						2	SMIL HISP = tamnoides		
					1				1	AMPH BRAC		
					2				2	CLEM VIR		
					1				1	CYNO VIRG		
					2				2	CYRT PORT		
			1						1	~~HYDR~~ ~~ARB~~		
					1				1	POLY VIR		
					1				1	ALIS SERP		
					1				1	GENM CAN		

Cover classes

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

T2: Tree Can

T3 Subcanopy

S1 Tall Shrub

(>1m; to 5m)

S2 Short Shrub

(< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

+ genus
New to
Park

* more
confident it
is all one
thing! But
still concerned

Use bottom of this sheet or additional pages for other species in 1 ha plot

INCONSISTENT
placement into
STRATA-

Community Survey

Page 4

P. g. SMILAX, LOXI JAP

VICK.70

County: Waller Park: NATR VICK Plot Code: V70 State: AL MS TN Location org: NPS

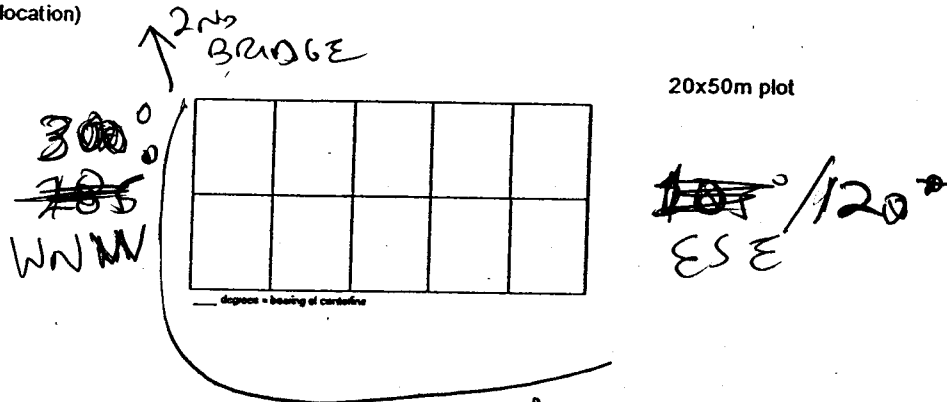
130 pm

Provisional community name Carya illinoensis - Platanus occidentalis - Quercus nigra - Liquidambar styracifluaClassified community name Platanus occidentalis - Liquidambar styraciflua - (Ulmus americana) / Crataegus viridis ForestClassifier CHN Date 10/4/2004 NVC EL CODE 7335Survey date: 29 Sept 2004 Surveyors initials: MP, KFTagged tree is a CARY ILL of 46 cm dbh with tag # 896 Center of 20 x 50m plot is at a bearing of 240 degrees and 1.5 m from tree. 1 TAG ON S SIDE of treeDirections to tag tree (including any notes on best access route, and mile marker): PARK AT JUBLANS WILSON
BETWEEN 2 BRIDGES BELOW "HAYAZ APPROACH"
2ND BRIDGE can be seen from WNW end of plotTime taken to walk to plot: 3 minutes

PLOT CONFIGURATION (Depict the plot layout on right with respect to the surrounding area and attempt to draw in points where GPS positions were collected, witness tree, bearing of centerline, locations of pictures taken, and communities near the 20 x 50m plot.)

Plot representativeness - Is the surrounding area all the same? YES NO - If not, depict below)

PLOT LOCATION (Below show general plot location)



Est. Extent of occurrence of community:

< 1HA 1-10 HA 10-100HA > 100HAPIC # 44, 45, 46, 47

Description of pictures (N, E, S & W from GPS point at middle of plot):

44 = N 45 = E 46 = S 47 = WSelect one: UTM OR Lat/long (If lat/long, then values are 32.37462 N 690.85327 W)GPS Techniques/Equipment: Garmin III+ Garmin V Datum (pick one) NAD 83 OR NAD27 UTM Zone: 15 16GPS Unit ID 3 GPS file name V70 (standard = First letter of park + # of plot (N04 or V04))Field UTM X _____ m E Y _____ m N Elevation 68 (m) / ftAveraging performed (at least 120 observations)? 720 ✓ Coordinate accuracy 6.9 m / ft DOP 2.0 # sats 7revised
12/22/04
vd

County: Wash Park: NATR VICK Plot Code: V7P State: AL MS TN Location org: NPS

ENVIRONMENTAL / SITE INFORMATION

Measured Slope _____ ° _____ % Flat 0° 0% ☒ Gentle 0-5° 1-9% Moderate 6-14° 10-25% Somewhat steep 15-25° 26-49% Steep 27-45° 50-100% Very steep 45-69° 101-275% Abrupt 70-100° 276-300% Overhanging/steep 100° > 300%	Measured Aspect <u>195</u> ° (N=0°) Flat SE 113-157° ☒ Variable ☒ S 158-202° N 338-22° SW 203-247° NE 23-67° W 248-292° E 68-112° NW 293-337°	Topographic Position Interfluvial (Ridge/summit/crest) _____ Toeslope High Slope (upper/convex slope) _____ Midslope _____ Low slope (lower/footslope) ☒ Low level (terrace) _____ Channel bed _____ Cowardin System Upland _____ ☒ Palustrine Estuarine _____ Lacustrine _____ Riverine _____
--	---	--

Landform (check most applicable) ☒ Alluvial flat ☒ Alluvial terrace ☐ Bald ☐ Bank ☐ Bar ☐ Bench ☒ Bottomlands ☐ Cliff	☐ Cove ☐ Depression ☐ Draw ☐ Exogenous dome ☐ Floodplain ☐ Gap ☐ Gorge ☐ Hillslope bedrock outcrop ☐ Midslope ☐ Nose slope	☐ Ridge ☐ Ridgetop bedrock outcrop ☐ Saddle ☐ Seep ☐ Toe slope ☐ Slope ☐ Streambed ☐ Streamhead ☐ Periglacial boulderfield ☐ Ravine
---	---	--

Rock types present:

Hydrologic Regime (check only for wetlands)

☐ Not a wetland (Upland: XERIC : DRY - MESIC : MESIC) (could be interpreted as mesic)
☐ Intermittently flooded ☐ Permanently flooded ☐ Semipermanently flooded ☒ Temporarily Flooded (e.g. floodplains)
☐ Seasonally Flooded (e.g. seasonal ponds) ☐ Saturated (e.g. bogs, perennial seeps) ☐ Unknown ☐ Irregularly flooded ☐ Irregularly exposed

QUALITATIVE ASSESSMENT:

A) HYDROLOGY: Freezing would take place at least in most of the plot
AMBIGUOUS

B) LANDSCAPE AND LANDUSE HISTORY (including disturbance history and possible threats to sustainability):

Soil Texture: Loess

☐ Sand ☐ Peat ☐ Silt loam ☐ Muck
☐ Sandy loam ☒ Loam ☐ Clay loam ☐ Clay

Drainage:

☒ Rapidly drained ☐ Moderately well drained ☐ Somewhat poorly drained
☒ Well drained ☐ Poorly drained ☐ Very poorly drained

Ground cover

☐ % Bedrock ☒ 80% Litter, duff
☐ % Large rocks (cobbles, boulders > 10cm) ☒ 10% Wood (> 1 cm)
☐ % Small rocks (gravel, 0.2-10 cm) ☐ % Water
☐ % Sand (0.1-2 mm) ☒ 10% Bare soil

Leaf type:

☒ Broad-leaved
☐ Needle-leaved
☐ Microphyllous
☐ Graminoid
☐ Broad-leaved herbaceous
☐ Pteridophyte
☐ Extremely xeromorphic
☐ Mixed

Leaf phenology (dominant stratum)

☐ Evergreen
☒ Cold-deciduous
☐ Drought-deciduous
☐ Mixed evergreen-cold-deciduous
☐ Mixed evergreen drought deciduous
☐ Herb - Annual
☐ Herb - Perennial

Physiognomic Class

☒ Forest (closed tree canopy)
☐ Woodland (open tree canopy)
☐ Shrubland
☐ Dwarf Shrubland
☐ Herbaceous (less than 25% woody layers)
☐ Nonvascular
☐ Sparse Vegetation

Natural and Anthropogenic Disturbance

☒ Logging ☐ fire ☐ Hydrologic
☐ erosion ☐ trails/roads ☐ Agriculture
☐ grazing/browsing ☐ wind/ice damage ☐ Old Growth
☐ pine bark beetle ☒ Exotic plants ☐ Fire Suppression
☐ dogwood anthr ☐ ORV

Disturbance and animal use comments:

NPS GULF COAST PROJECT: Plot Sampling Form

VICK. 70

Page 3

County: WARR Park: NATR VICK Plot Code: V70 State: AL MS TN Location org: NPS

QUANTITATIVE VEGETATION SAMPLE

STRATA	STRATA HEIGHT (1 only)	COVER CLASS	DOMINANT/DIAGNOSTIC SPECIES	Height scale (use tallest one for strata)	% cover for strata = top of cover class
Emergent - T1				< .5m	5%
Tree Canopy T2		60	(Platocc), LIQUSTY, CARYILL	.5-1m	10%
Understory T3			ACER NEG, QUER MICH	1-2m	20%
Tall shrub S1			LIGN ~~STY~~ SIN	2-5m	30%
Short shrub S2			LIGN ~~STY~~ SIN, LINDBENZ	5-10m	40%
Herbaceous			LONI JAP	10-15m	50%
Non-vascular				15-20m	60%
Vine/liana			VITIS	20-35m	70%
Other notable species (indicators of distinctive conditions, e.g. high pH soil, elevation, geographic region, other particularly abundant species):				35-50m	80%
Plat. OCC				> 50m	90%
					100%

T1: Emergent | T2: Tree Canopy | T3 Subcanopy | S1 Tall Shrub (> 1m; to 5m) | S2 Short Shrub (< 1m) | H Herbaceous | N Nonvascular | V Vines (lianas) | E Epiphytes

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM (enter cover values for each stratum AND for Total cover)

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total Cover	Name (7 letter code or full name)	Collected? Spec #?	Discarded?	Cover cls
	6								6	PLAT OCC			1 trace
	6								6	LIQUSTY			2 0.1-1%
	7								7	CARYILL			3 1-2%
	(5)								5	QUER MICH			4 2-5%
	2								2	~~QUER NEG~~ PRYNCAR			5 5-10%
	3								3	MORR RUB			6 10-25%
	5								5	ACER NEG			7 25-50%
	3	3							3	CELT LAEV			8 50-75%
				(2)					2	CARY COR			9 75-95%
	3	3							4	ULMN AME			10 >95%
	3	3							4	ULMN RUB			
	(3)								3	OSTY VIR			
	(3)								3	CARD CAR			
				3					3	JOS VIR			
6	3	3							6	QUER NIG			
	3								3	ULMN ALA			
5									5	QUER PRG			

THE LIQUSTY @ VICK appears to key to VULGAR, but most references indicate sinense should be there.

NPS GULF COAST PROJECT: Plot Sampling Form

VICK.70

Page 4

County: WARR Park: NATR (VICK) Plot Code: V70 State: AL (MS) TN Location org: (NPS)

SPECIES COMPOSITION AND COVER/ABUNDANCE CLASS BY STRATUM

T 1	T 2	T 3	S 1	S 2	H	N	V	E	Total cover	Name (7 letter acronym or full name)	Collected? Spec #?	Discarded?
				1					1	NAND DAM		
				6					6	LOWI JAP		
				3					3	VITI POT		
			3				3		4	BERC SCA		
				1					1	~~FRIT~~ AMBR JAP		
			6	5					6	LIGU ~~W~~ SIN		
			4						4	PONC TRIF		
				2					2	LWD BENZ		
				1					1	CAREX SP 1		
				1					1	SMIL BON		
				1					1	CAREX SP 2 (PEBING)		
				1					1	" " 3		
				1					1	SANI CAN		
				2					2	AMPH BRA		
	3								3	JUNI VIR		
				1					1	CLEM VIR		
			2						2	RHAM CAR <i>Fraxinella communis</i>		
			X	1					1	OPLI SET / HIRT		
				2					2	BIBN CAP		
			X	2					2	AMPE ARB		
				2					2	POLY VIR		
				4					4	TOXI RAO		
				1					1	SYMP DRUM		
				2					2	BOTR BIT		
				2					2	CYRT FORT		
				2					2	RHIZ ARB <i>Rhizophora</i>		
				2					2	ELEP CAR		
			1						1	MAHONIA BEALEI		
				1					1	MICR VIM		
				1					1	JOTH VIR		
				1					1	ASPL PLD		
	2	2	2						3	PRUN SER		
				2					2	PART QWE		
						3			3	VITIS VULP ?		
				1					1	SYMP JP		

Cover classes

1. trace
2. 0.1-1%
3. 1-2%
4. 2-5%
5. 5-10%
6. 10-25%
7. 25-50%
8. 50-75%
9. 75-95%
10. >95%

T1: Emergent

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T3 Subcanopy

S1 Tall Shrub

(> 1m; to 5m)

S2 Short Shrub

(< 1m)

H Herbaceous

N Nonvascular

V Vines (lianas)

E Epiphytes

Use bottom of this sheet or additional pages for other species in 1 ha plot

Community Survey

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