PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 23 2018
Describer: M. Williams, J. Velazquez, S. Depew, M. Singer
NEON Plot ID: LENO_002
Site ID: S2018AL023002

Pedon ID: S2018AL023002

Site Note: Site sampled 1 meter south and 1 meter west of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Joxelle Velazquez.
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2045
Soil Name as Described/Sampled: Urbo
Classification: Fine, mixed, active, acid, thermic Vertic Epiaquepts

Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mantachie, Mooreville, Una
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on talf river valley
on talf flood plain
Upslope Shape: convex
Cross Slope Shape: linear
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 16 cm.
redox depletions with chroma 2 or less 0 to 100 cm.
redox concentrations 0 to 55 cm.
cambic horizon 16 to 100 cm.
slickensides 55 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name: Coffeeville Lock And Dam, Alabama
Std Latitude: 31.8068056
Std Longitude: -88.1939722

Latitude: 31 degrees 48 minutes 24.50 seconds north
Longitude: 88 degrees 11 minutes 38.30 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 386983 meters
UTM Northing: 3519643 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: clayey alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023002 **Pedon ID:** S2018AL023002

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
1.0	11.0	226	18.0			1,429		somewhat poorly		

A--0 to 16 centimeters (0.0 to 6.3 inches); dark brown (10YR 3/3) silty clay; moderate medium prismatic structure; friable, slightly sticky, slightly plastic; semideformable; many medium roots throughout and many fine roots throughout and many coarse roots throughout; 1 percent fine distinct irregular iron depletions with clear boundaries In matrix and 15 percent fine distinct irregular 5YR 3/4), moist, masses of oxidized iron with clear boundaries In matrix; clear smooth boundary. Lab sample # 18N06180

Bw--16 to 37 centimeters (6.3 to 14.6 inches); dark grayish brown (10YR 4/2) clay; moderate coarse prismatic parts to moderate medium angular blocky structure; firm, moderately sticky, moderately plastic; semideformable; few medium roots throughout and few coarse roots throughout; 15 percent fine distinct irregular 2.5YR 3/6), moist, masses of oxidized iron with clear boundaries In matrix and 20 percent fine distinct irregular 10YR 5/2), moist, iron depletions with clear boundaries In matrix; gradual wavy boundary. Lab sample # 18N06181

Bg--37 to 55 centimeters (14.6 to 21.7 inches); grayish brown (10YR 5/2) clay; weak medium prismatic parts to weak medium angular blocky structure; firm, moderately sticky, moderately plastic; deformable; few medium roots throughout and few fine roots throughout; distinct pressure faces on vertical faces of peds; 1 percent fine distinct irregular 10YR 5/6), moist, masses of oxidized iron with clear boundaries In matrix; gradual wavy boundary. Lab sample # 18N06182

Bssg--55 to 100 centimeters (21.7 to 39.4 inches); gray (10YR 6/1) clay; weak medium prismatic parts to weak medium angular blocky structure; firm, moderately sticky, moderately plastic; deformable; few medium roots throughout and few fine roots throughout; 3 percent distinct slickensides (pedogenic) on vertical faces of peds and 65 percent distinct pressure faces on vertical faces of peds; 1 percent fine distinct irregular 10YR 5/6), moist, masses of oxidized iron with clear boundaries In matrix. Lab sample # 18N06183

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 23 2018
Describer: M. Williams, J. Velazquez, S. Depew, M. Singer
NEON Plot ID: LENO_003
Site ID: S2018AL023003

Pedon ID: S2018AL023003

Site Note: Site sampled 1 meter south and 1 meter west of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Joxelle Velazquez.
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2046
Soil Name as Described/Sampled: Mooreville
Classification: Fine-loamy, siliceous, active, thermic Fluvaquentic Dystrudepts
Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mantachie, Moreville, Una
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on talf river valley
on talf flood plain
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 12 cm.
cambic horizon 12 to 100 cm.
redox depletions with chroma 2 or less 48 to 100 cm.
redox concentrations 48 to 100 cm.
slickensides 82 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name: Coffeeville Lock And Dam, Alabama
Std Latitude: 31.8081944
Std Longitude: -88.1883333

Latitude: 31 degrees 48 minutes 29.50 seconds north
Longitude: 88 degrees 11 minutes 18.00 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 387519 meters
UTM Northing: 3519791 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: clayey alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023003 **Pedon ID:** S2018AL023003

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
0.5	11.0	270	18.0			1,429		moderately well		

A--0 to 12 centimeters (0.0 to 4.7 inches); dark grayish brown (10YR 4/2) broken face silty clay; moderate medium subangular blocky structure; friable, slightly sticky, slightly plastic; semideformable; common medium roots throughout and common coarse roots throughout; clear smooth boundary. Lab sample # 18N06184

Bw1--12 to 48 centimeters (4.7 to 18.9 inches); dark grayish brown (10YR 4/2) broken face clay; moderate medium prismatic parts to moderate medium angular blocky structure; firm, moderately sticky, moderately plastic; deformable; common medium roots throughout and common fine roots throughout; gradual wavy boundary. Lab sample # 18N06185

Bw2--48 to 82 centimeters (18.9 to 32.3 inches); brown (10YR 4/3) broken face clay; moderate medium prismatic parts to moderate medium angular blocky structure; firm, moderately sticky, moderately plastic; deformable; few medium roots throughout and few fine roots throughout; 1 percent fine prominent irregular extremely weakly cemented 10YR 2/1), moist, manganese masses with sharp boundaries In matrix and 15 percent medium distinct irregular 10YR 5/2), moist, iron depletions with clear boundaries Between peds; gradual wavy boundary. Lab sample # 18N06186

Bss--82 to 100 centimeters (32.3 to 39.4 inches); brown (10YR 5/3) broken face silty clay; moderate medium prismatic parts to moderate medium angular blocky structure; firm, slightly sticky, slightly plastic; deformable; few fine roots throughout; 3 percent slickensides (pedogenic); 1 percent fine prominent irregular extremely weakly cemented 10YR 2/1), moist, manganese masses with sharp boundaries In matrix and 1 percent fine prominent irregular 7.5YR 5/8), moist, masses of oxidized iron with clear boundaries Between peds and 25 percent medium distinct irregular 10YR 5/2), moist, iron depletions with clear boundaries Between peds. Lab sample # 18N06187

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 23 2018
Describer: J. Lene, J. Hancock
NEON Plot ID: LENO_006
Site ID: S2018AL023006

Pedon ID: S2018AL023006

Site Note: Site sampled 1 meter south and 1 meter west of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Joxelle Velazquez.
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2047
Soil Name as Described/Sampled: Urbo
Classification: Fine, mixed, active, acid, thermic Vertic Epiaquepts

Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mantachie, Moreville, Una
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on tread of river valley
on tread of terrace
Upslope Shape: concave
Cross Slope Shape: linear
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 28 cm.
redox concentrations 28 to 100 cm.
cambic horizon 28 to 100 cm.
redox depletions with chroma 2 or less 28 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name: Coffeeville Lock And Dam, Alabama
Std Latitude: 31.8141583
Std Longitude: -88.1875333

Latitude: 31 degrees 48 minutes 50.97 seconds north
Longitude: 88 degrees 11 minutes 15.12 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 387602 meters
UTM Northing: 3520451 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: clayey alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023006 **Pedon ID:** S2018AL023006

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
0.5	24.4	225	18.0			1,429		moderately well		

A--0 to 28 centimeters (0.0 to 11.0 inches); dark gray (10YR 4/1) clay; moderate medium subangular blocky structure; very hard, firm, Noncemented, moderately sticky, moderately plastic; semideformable; common fine roots throughout and common coarse roots throughout; 15 percent distinct 10YR 2/1), moist, organic stains on surfaces along root channels; 1 percent fine distinct irregular iron depletions with clear boundaries In matrix and 15 percent fine distinct irregular 5YR 3/4), moist, masses of oxidized iron with clear boundaries In matrix; abrupt smooth boundary. Lab sample # 18N06188

Bw--28 to 50 centimeters (11.0 to 19.7 inches); brown (10YR 5/3) clay; moderate medium subangular blocky structure; hard, firm, Noncemented, moderately sticky, moderately plastic; semideformable; common medium roots throughout and common fine roots throughout and common coarse roots throughout; 2 percent fine distinct spherical weakly cemented iron-manganese concretions with sharp boundaries In matrix and 10 percent fine distinct irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries In matrix and 20 percent fine distinct irregular 10YR 5/1), moist, iron depletions with clear boundaries In matrix; clear wavy boundary. Lab sample # 18N06189

Bg--50 to 100 centimeters (19.7 to 39.4 inches); grayish brown (10YR 5/2) clay; weak medium prismatic parts to weak medium angular blocky structure; hard, firm, Noncemented, moderately sticky, moderately plastic; deformable; common very fine roots throughout and common fine roots throughout; distinct pressure faces on vertical faces of peds; 2 percent fine distinct spherical weakly cemented iron-manganese concretions with sharp boundaries In matrix and 10 percent fine distinct irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries In matrix and 10 percent fine distinct irregular 10YR 5/1), moist, iron depletions with clear boundaries In matrix. Lab sample # 18N06190

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 24 2018
Describer: J. Velazquez, M. Williams, S. Depew, M. Singer
NEON Plot ID: LENO_007
Site ID: S2018AL023007

Pedon ID: S2018AL023007

Site Note: Site sampled 1 meter south and 1 meter west of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Joxelle Velazquez.
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2048
Soil Name as Described/Sampled: Una
Classification: Fine, mixed, active, acid, thermic Typic Epiaquepts

Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mantachie, Mooreville, Urbo
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on dip river valley
on dip flood plain
Upslope Shape: linear
Cross Slope Shape: concave
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 9 cm.
cambic horizon 9 to 100 cm.
redox concentrations 9 to 100 cm.
redox depletions with chroma 2 or less 9 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name: Coffeeville Lock And Dam, Alabama
Std Latitude: 31.8124167
Std Longitude: -88.2002778

Latitude: 31 degrees 48 minutes 44.70 seconds north
Longitude: 88 degrees 12 minutes 1.00 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 386393 meters
UTM Northing: 3520271 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: clayey alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023007 **Pedon ID:** S2018AL023007

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
0.5	11.0	224	18.0			1,429		poorly		

A--0 to 9 centimeters (0.0 to 3.5 inches); very dark grayish brown (10YR 3/2) silty clay; moderate medium angular blocky, and moderate fine angular blocky structure; friable, moderately sticky, moderately plastic; deformable; many medium roots throughout and many fine roots throughout and common coarse roots throughout; gradual smooth boundary. Lab sample # 18N06191

Bg1--9 to 48 centimeters (3.5 to 18.9 inches); gray (10YR 5/1) silty clay loam; weak medium subangular blocky structure; friable, moderately sticky, moderately plastic; deformable; common medium roots throughout and common fine roots throughout; 35 percent coarse distinct irregular 5YR 4/4), moist, masses of oxidized iron with clear boundaries Between peds; gradual wavy boundary. Lab sample # 18N06192

Bg2--48 to 100 centimeters (18.9 to 39.4 inches); gray (10YR 5/1) silty clay loam; weak medium subangular blocky structure; friable, moderately sticky, moderately plastic; deformable; common medium roots throughout and common fine roots throughout; 10 percent fine prominent irregular 5YR 5/8), moist, masses of oxidized iron with sharp boundaries In matrix and 35 percent medium distinct irregular 7.5YR 6/8), moist, masses of oxidized iron with clear boundaries In matrix. Lab sample # 18N06193

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 24 2018
Describer: J. Lene, J. Hancock
NEON Plot ID: LENO_009
Site ID: S2018AL023009

Pedon ID: S2018AL023009

Site Note: Site sampled 1 meter south and 1 meter west (225 degrees) of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Jessica Lene.

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2049
Soil Name as Described/Sampled: Mooreville
Classification: Fine-loamy, siliceous, active, thermic Fluvaquentic Dystrudepts
Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mooreville, Una, Urbo
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on riser of flood plain on river valley
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS

Diagnostic Features: ochric epipedon 0 to 17 cm.
cambic horizon 17 to 100 cm.
redox concentrations 17 to 100 cm.
redox depletions with chroma 2 or less 17 to 31 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name:
Std Latitude: 31.8114444
Std Longitude: -88.1811528

Latitude: 31 degrees 48 minutes 41.20 seconds north
Longitude: 88 degrees 10 minutes 52.15 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 388203 meters
UTM Northing: 3520144 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: loamy alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023009 **Pedon ID:** S2018AL023009

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
1.0	24.1	250	18.0			1,429		somewhat poorly		

A--0 to 17 centimeters (0.0 to 6.7 inches); dark yellowish brown (10YR 4/4) loam; weak medium subangular blocky structure; slightly hard, friable, Noncemented, slightly sticky, slightly plastic; deformable; many medium roots throughout and many fine roots throughout and common coarse roots throughout; few very fine low-continuity dendritic tubular pores; 5 percent distinct organic stains on surfaces along root channels; 5 percent fine distinct irregular 10YR 4/2), moist, iron depletions with clear boundaries In matrix and 5 percent fine distinct irregular 10YR 5/3), moist, iron depletions with clear boundaries In matrix; abrupt wavy boundary. Lab sample # 18N06194

Bw--17 to 31 centimeters (6.7 to 12.2 inches); brown (10YR 5/3) loam; weak medium subangular blocky structure; slightly hard, friable, Noncemented, slightly sticky, slightly plastic; semideformable; common medium roots throughout and few coarse roots throughout; few very fine low-continuity dendritic tubular pores; 2 percent fine distinct spherical weakly cemented 10YR 2/1), moist, iron-manganese concretions with sharp boundaries In matrix and 5 percent fine distinct irregular 10YR 5/2), moist, iron depletions with clear boundaries In matrix and 5 percent fine distinct irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries In matrix; clear smooth boundary. Lab sample # 18N06195

Bg1--31 to 59 centimeters (12.2 to 23.2 inches); grayish brown (10YR 5/2) clay loam; weak medium prismatic parts to weak medium subangular blocky structure; moderately hard, firm, Noncemented, moderately sticky, moderately plastic; deformable; common fine roots throughout and few coarse roots throughout; few very fine low-continuity dendritic tubular pores; 5 percent distinct 10YR 3/3), moist, organic stains on surfaces along root channels; 5 percent fine distinct irregular 10YR 5/3), moist, iron depletions with clear boundaries In matrix and 5 percent fine distinct spherical weakly cemented 10YR 2/1), moist, iron-manganese concretions with sharp boundaries In matrix and 7 percent fine distinct irregular 7.5YR 5/6), moist, masses of oxidized iron with clear boundaries In matrix; clear smooth boundary. Lab sample # 18N06196

Bg2--59 to 100 centimeters (23.2 to 39.4 inches); grayish brown (10YR 5/2) clay loam; weak medium prismatic parts to weak medium subangular blocky structure; moderately hard, firm, Noncemented, moderately sticky, moderately plastic; deformable; common very fine roots throughout; few very fine low-continuity dendritic tubular pores; 5 percent distinct 10YR 3/3), moist, organic stains on surfaces along root channels and 10 percent faint pressure faces on all faces of peds; 5 percent fine distinct irregular 10YR 5/3), moist, iron depletions with clear boundaries In matrix and 5 percent fine distinct spherical weakly cemented 10YR 2/1), moist, iron-manganese concretions with sharp boundaries In matrix and 20 percent fine distinct irregular 7.5YR 5/6), moist, masses of oxidized iron with clear boundaries In matrix. Lab sample # 18N06197

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 20 2018
Describer: Jessica R. Lene
NEON Plot ID: LENO_011
Site ID: S2018AL023011

Pedon ID: S2018AL023011

Site Note: Site sampled 1 meter south and 1 meter west (225 degrees) of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Jessica Lene.

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2050
Soil Name as Described/Sampled: Mooreville
Classification: Fine-loamy, siliceous, active, thermic Fluvaquentic Dystrudepts
Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mooreville, Una, Urbo
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on talf flood plain on river valley
Upslope Shape: convex
Cross Slope Shape: convex
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 5 cm.
cambic horizon 5 to 100 cm.
redox concentrations 16 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name:
Std Latitude: 31.8258361
Std Longitude: -88.1830861

Latitude: 31 degrees 49 minutes 33.01 seconds north
Longitude: 88 degrees 10 minutes 59.11 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 388037 meters
UTM Northing: 3521741 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: clayey alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023011 **Pedon ID:** S2018AL023011

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
1.0	28.0	300	18.0			1,429		moderately well		

A--0 to 5 centimeters (0.0 to 2.0 inches); very dark grayish brown (10YR 3/2) broken face clay; strong medium subangular blocky structure; hard, firm, Noncemented, very sticky, very plastic; semideformable; common medium roots throughout and common coarse roots throughout; clear wavy boundary. Lab sample # 18N06198

Bw1--5 to 16 centimeters (2.0 to 6.3 inches); brown (10YR 4/3) broken face clay; strong medium subangular blocky structure; hard, firm, Noncemented, very sticky, very plastic; deformable; common medium roots throughout and common fine roots throughout; 5 percent distinct 10YR 2/1), moist, organic stains on surfaces along root channels; gradual smooth boundary. Lab sample # 18N06199

Bw2--16 to 64 centimeters (6.3 to 25.2 inches); brown (10YR 4/3) broken face clay; strong coarse prismatic parts to moderate medium subangular blocky parts to moderate fine granular structure; hard, firm, Noncemented, very sticky, very plastic; deformable; common medium roots throughout and common fine roots throughout; 5 percent distinct 10YR 2/1), moist, organic stains on surfaces along root channels; 2 percent medium distinct irregular 5YR 4/6), moist, masses of oxidized iron with sharp boundaries In matrix and 10 percent medium distinct irregular 10YR 5/3), moist, iron depletions with clear boundaries In matrix; 2 percent flat rounded indurated 2 to 20-millimeter Quartzite fragments; gradual smooth boundary. Lab sample # 18N06200

Bw3--64 to 100 centimeters (25.2 to 39.4 inches); brown (10YR 4/3) broken face clay loam; strong coarse prismatic parts to moderate medium subangular blocky parts to moderate fine granular structure; moderately hard, firm, Noncemented, moderately sticky, moderately plastic; deformable; common fine roots throughout; 10 percent faint pressure faces on all faces of peds; 15 percent medium distinct irregular 10YR 5/3), moist, iron depletions with clear boundaries In matrix. Lab sample # 18N06201

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 19 2018
Describer: J. Lene, J. Hancock
NEON Plot ID: LENO_012
Site ID: S2018AL023012

Pedon ID: S2018AL023012

Site Note: Site sampled 1 meter south and 1 meter west (225 degrees) of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Jessica Lene.

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2051
Soil Name as Described/Sampled: Urbo
Classification: Fine, mixed, active, acid, thermic Vertic Epiaquepts

Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mooreville, Una, Urbo
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on talf flood plain on river valley
Upslope Shape: linear
Cross Slope Shape: convex
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS

Diagnostic Features: ochric epipedon 0 to 18 cm.
redox concentrations 18 to 100 cm.
redox depletions with chroma 2 or less 18 to 100 cm.
cambic horizon 18 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name:
Std Latitude: 31.8081000
Std Longitude: -88.1800611

Latitude: 31 degrees 48 minutes 29.16 seconds north
Longitude: 88 degrees 10 minutes 48.22 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 388302 meters
UTM Northing: 3519772 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: clayey alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023012 **Pedon ID:** S2018AL023012

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
1.5	24.1	225	18.0			1,429		somewhat poorly		

A--0 to 18 centimeters (0.0 to 7.1 inches); very dark grayish brown (10YR 3/2) clay loam; strong medium subangular blocky structure; moderately hard, firm, Noncemented, moderately sticky, moderately plastic; semideformable; common fine roots throughout and common coarse roots throughout; common very fine low-continuity dendritic tubular pores; 15 percent distinct 10YR 2/1), moist, organic stains on surfaces along root channels; 2 percent fine distinct irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries In matrix and 5 percent fine distinct irregular 10YR 4/3), moist, iron depletions with clear boundaries In matrix; clear smooth boundary. Lab sample # 18N06202

Bw--18 to 40 centimeters (7.1 to 15.7 inches); brown (10YR 5/3) clay; weak medium prismatic parts to moderate coarse angular blocky structure; hard, firm, Noncemented, very sticky, very plastic; semideformable; common very coarse roots throughout and common fine roots throughout; common very fine low-continuity dendritic tubular pores; 5 percent fine distinct spherical weakly cemented iron-manganese concretions with sharp boundaries In matrix and 10 percent fine distinct irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries In matrix and 15 percent fine distinct irregular 10YR 5/2), moist, iron depletions with clear boundaries In matrix; 2 percent krotovinas (volume percent); clear wavy boundary. Lab sample # 18N06203

Bg--40 to 100 centimeters (15.7 to 39.4 inches); grayish brown (10YR 5/2) clay; moderate medium prismatic parts to moderate medium angular blocky structure; hard, firm, Noncemented, very sticky, very plastic; deformable; common medium roots throughout and common fine roots throughout; common very fine low-continuity dendritic tubular pores; distinct pressure faces on vertical faces of peds; 5 percent fine distinct irregular 10YR 5/2), moist, iron depletions with clear boundaries In matrix and 20 percent fine distinct irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries In matrix. Lab sample # 18N06204

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 24 2018
Describer: M. Williams, J. Velazquez, S. Depew, M. Singer
NEON Plot ID: LENO_014
Site ID: S2018AL023014

Pedon ID: S2018AL023014

Site Note: Site sampled 1 meter south and 1 meter west of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Joxelle Velazquez.
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2052
Soil Name as Described/Sampled: Urbo
Classification: Fine, mixed, active, acid, thermic Vertic Epiaquepts

Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Mantachie, Mooreville, Una, Urbo
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on talf river valley
on talf flood plain
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 13 cm.
redox depletions with chroma 2 or less 0 to 100 cm.
redox concentrations 13 to 100 cm.
cambic horizon 13 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name: Coffeeville Lock And Dam, Alabama
Std Latitude: 31.8105000
Std Longitude: -88.1992222

Latitude: 31 degrees 48 minutes 37.80 seconds north
Longitude: 88 degrees 11 minutes 57.20 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 386491 meters
UTM Northing: 3520058 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: clayey alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023014 **Pedon ID:** S2018AL023014

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
0.5	11.0	270	18.0			1,429		poorly		

A--0 to 13 centimeters (0.0 to 5.1 inches); dark grayish brown (10YR 4/2) silty clay; moderate medium angular blocky, and moderate fine angular blocky structure; friable, moderately sticky, moderately plastic; deformable; many medium roots throughout and many fine roots throughout and few coarse roots throughout; 1 percent fine distinct irregular 10YR 5/2), moist, iron depletions with clear boundaries In matrix; gradual smooth boundary. Lab sample # 18N06205

Bw--13 to 48 centimeters (5.1 to 18.9 inches); brown (10YR 4/3) clay; weak medium prismatic parts to weak fine angular blocky structure; firm, moderately sticky, moderately plastic; deformable; few medium roots throughout and few fine roots throughout; 5 percent distinct pressure faces on vertical faces of peds; 1 percent fine distinct irregular 7.5YR 4/4), moist, masses of oxidized iron with clear boundaries In matrix and 25 percent coarse distinct irregular 10YR 5/2), moist, iron depletions with diffuse boundaries In matrix; gradual wavy boundary. Lab sample # 18N06206

Bg--48 to 100 centimeters (18.9 to 39.4 inches); gray (10YR 5/1) clay; weak medium prismatic parts to weak fine angular blocky structure; firm, moderately sticky, moderately plastic; deformable; few fine roots throughout; 5 percent distinct pressure faces on vertical faces of peds; 18 percent medium distinct irregular 10YR 5/8), moist, and 10YR 4/3), moist, masses of oxidized iron with clear boundaries In matrix. Lab sample # 18N06207

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 25 2018
Describer: J. Lene, J. Hancock
NEON Plot ID: LENO_015
Site ID: S2018AL023015

Pedon ID: S2018AL023015

Site Note: Site sampled 1 meter south and 1 meter west (225 degrees) of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Jessica Lene.

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2053
Soil Name as Described/Sampled: Mooreville
Classification: Fine-loamy, siliceous, active, thermic Fluvaquentic Dystrudepts
Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mooreville, Una, Urbo
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on riser of terrace on river valley
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS

Diagnostic Features: ochric epipedon 0 to 18 cm.
cambic horizon 18 to 100 cm.
redox depletions with chroma 2 or less 18 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name:
Std Latitude: 31.8157778
Std Longitude: -88.1916417

Latitude: 31 degrees 48 minutes 56.80 seconds north
Longitude: 88 degrees 11 minutes 29.91 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 387215 meters
UTM Northing: 3520635 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: clayey alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023015 **Pedon ID:** S2018AL023015

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
1.0	15.0	250	18.0			1,429		well		

A--0 to 18 centimeters (0.0 to 7.1 inches); very dark grayish brown (10YR 3/2) broken face clay; weak medium subangular blocky structure; hard, firm, Noncemented, very sticky, very plastic; semideformable; common very fine roots throughout and common fine roots throughout; 2 percent fine prominent irregular extremely weakly cemented 10YR 2/1), moist, manganese masses with sharp boundaries In matrix; clear smooth boundary. Lab sample # 18N06208

Bw1--18 to 47 centimeters (7.1 to 18.5 inches); brown (10YR 4/3) broken face clay; moderate medium subangular blocky structure; hard, firm, Noncemented, very sticky, very plastic; deformable; common medium roots throughout and common fine roots throughout and few coarse roots throughout; 5 percent medium distinct irregular 10YR 5/2), moist, iron depletions with clear boundaries In matrix and 5 percent fine prominent irregular extremely weakly cemented 10YR 2/1), moist, manganese masses with sharp boundaries In matrix; abrupt smooth boundary. Lab sample # 18N06209

Bw2--47 to 100 centimeters (18.5 to 39.4 inches); brown (10YR 4/3) broken face clay; weak coarse prismatic parts to moderate medium subangular blocky structure; hard, firm, Noncemented, very sticky, very plastic; deformable; common medium roots throughout and common fine roots throughout; 10 percent faint pressure faces on all faces of peds; 5 percent fine prominent irregular extremely weakly cemented 10YR 2/1), moist, manganese masses with sharp boundaries In matrix and 15 percent medium distinct irregular 10YR 5/2), moist, iron depletions with clear boundaries Between peds. Lab sample # 18N06210

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 23 2018
Describer: J. Lene, J. Hancock
NEON Plot ID: LENO_016
Site ID: S2018AL023016

Pedon ID: S2018AL023016

Site Note: Site sampled 1 meter south and 1 meter west of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Joxelle Velazquez.
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2054
Soil Name as Described/Sampled: Urbo
Classification: Fine, mixed, active, acid, thermic Vertic Epiaquepts

Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Mantachie, Mooreville, Una, Urbo
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on riser of terrace on river valley
Upslope Shape: linear
Cross Slope Shape: convex
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 16 cm.
redox concentrations 0 to 100 cm.
cambic horizon 16 to 100 cm.
redox depletions with chroma 2 or less 16 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name: Coffeeville Lock And Dam, Alabama
Std Latitude: 31.8177944
Std Longitude: -88.1845778

Latitude: 31 degrees 49 minutes 4.06 seconds north
Longitude: 88 degrees 11 minutes 4.48 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 387886 meters
UTM Northing: 3520851 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: clayey alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023016 **Pedon ID:** S2018AL023016

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
1.0	22.9	160	18.0			1,429		poorly		

A--0 to 16 centimeters (0.0 to 6.3 inches); dark yellowish brown (10YR 4/4) clay loam; strong medium subangular blocky structure; hard, firm, Noncemented, moderately sticky, moderately plastic; deformable; common medium roots throughout and common fine roots throughout and common coarse roots throughout; 5 percent medium distinct irregular 5YR 4/6), moist, masses of oxidized iron with clear boundaries Between peds and 5 percent medium distinct irregular 10YR 6/2), moist, iron depletions with clear boundaries Between peds and 5 percent fine distinct spherical weakly cemented iron-manganese concretions with sharp boundaries In matrix; clear smooth boundary. Lab sample # 18N06211

Bg1--16 to 34 centimeters (6.3 to 13.4 inches); gray (10YR 5/1) clay; moderate medium prismatic parts to moderate medium subangular blocky structure; hard, firm, Noncemented, very sticky, very plastic; deformable; common medium roots throughout and common fine roots throughout; 2 percent faint clay films on all faces of peds and 2 percent faint pressure faces on all faces of peds; 5 percent fine distinct spherical weakly cemented iron-manganese concretions with sharp boundaries In matrix and 20 percent coarse distinct irregular 5YR 4/6), moist, masses of oxidized iron with clear boundaries Between peds; gradual wavy boundary. Lab sample # 18N06212

Bg2--34 to 65 centimeters (13.4 to 25.6 inches); 5/2 5/2) clay; moderate medium prismatic parts to moderate medium subangular blocky structure; hard, firm, Noncemented, very sticky, very plastic; deformable; common medium roots throughout and common fine roots throughout; 2 percent faint clay films on all faces of peds and 2 percent faint pressure faces on all faces of peds; 2 percent very fine distinct spherical weakly cemented iron-manganese concretions with sharp boundaries In matrix and 40 percent medium distinct irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries In matrix; gradual wavy boundary. Lab sample # 18N06213

Bg3--65 to 100 centimeters (25.6 to 39.4 inches); 5/1 5/1) clay; strong medium prismatic parts to strong medium subangular blocky structure; hard, firm, Noncemented, very sticky, very plastic; deformable; common very fine roots throughout; 10 percent distinct clay films on all faces of peds; 20 percent fine prominent irregular 7.5YR 4/6), moist, masses of oxidized iron with sharp boundaries In matrix. Lab sample # 18N06214

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 22 2018
Describer: Jessica R. Lene
NEON Plot ID: LENO_017
Site ID: S2018AL023017

Pedon ID: S2018AL023017

Site Note: Site sampled 1 meter south and 1 meter west (225 degrees) of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Jessica Lene.

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2055
Soil Name as Described/Sampled: Mooreville
Classification: Fine-loamy, siliceous, active, thermic Fluvaquentic Dystrudepts
Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mooreville, Una, Urbo
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on tread of terrace on river valley
Upslope Shape: convex
Cross Slope Shape: linear
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 23 cm.
cambic horizon 23 to 100 cm.
redox depletions with chroma 2 or less 23 to 69 cm.
redox concentrations 23 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name:
Std Latitude: 31.8416583
Std Longitude: -88.1684500

Latitude: 31 degrees 50 minutes 29.97 seconds north
Longitude: 88 degrees 10 minutes 6.42 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 389441 meters
UTM Northing: 3523480 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: clayey alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023017 **Pedon ID:** S2018AL023017

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
1.0	10.4	300	18.0			1,429		moderately well		

A--0 to 23 centimeters (0.0 to 9.1 inches); brown (10YR 4/3) broken face clay loam; strong coarse subangular blocky parts to moderate medium subangular blocky structure; moderately hard, firm, Noncemented, slightly sticky, moderately plastic; semideformable; common medium roots throughout and common coarse roots throughout; few fine low-continuity dendritic tubular pores; clear wavy boundary. Lab sample # 18N06215

Bw--23 to 46 centimeters (9.1 to 18.1 inches); brown (10YR 4/3) broken face sandy clay loam; strong coarse subangular blocky parts to moderate medium subangular blocky structure; moderately hard, firm, Noncemented, moderately sticky, moderately plastic; deformable; common medium roots throughout and common fine roots throughout and common coarse roots throughout; few fine low-continuity dendritic tubular pores; 5 percent distinct 10YR 2/1), moist, organic stains on surfaces along root channels; 2 percent fine prominent irregular extremely weakly cemented 10YR 2/1), moist, manganese masses with sharp boundaries In matrix and 5 percent fine distinct irregular iron depletions with clear boundaries Lining pores and 5 percent fine distinct irregular masses of oxidized iron with clear boundaries In matrix; abrupt wavy boundary. Lab sample # 18N06216

Ab--46 to 69 centimeters (18.1 to 27.2 inches); very dark grayish brown (10YR 3/2) broken face clay loam; strong medium subangular blocky structure; moderately hard, firm, Noncemented, moderately sticky, moderately plastic; deformable; common fine roots throughout; few fine low-continuity dendritic tubular pores; 5 percent distinct 10YR 2/1), moist, organic stains on surfaces along root channels; 2 percent fine prominent irregular extremely weakly cemented 10YR 2/1), moist, manganese masses with sharp boundaries In matrix and 5 percent fine distinct irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries In matrix and 5 percent fine distinct irregular 10YR 6/2), moist, iron depletions with clear boundaries In matrix; abrupt wavy boundary. Lab sample # 18N06217

Bgb--69 to 100 centimeters (27.2 to 39.4 inches); light brownish gray (10YR 6/2) broken face sandy clay loam; moderate medium subangular blocky structure; moderately hard, firm, Noncemented, moderately sticky, very plastic; deformable; common very fine roots throughout and common fine roots throughout; common very fine low-continuity dendritic tubular and few fine low-continuity dendritic tubular pores; 5 percent distinct 10YR 2/1), moist, organic stains on surfaces along root channels; 15 percent fine distinct irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries In matrix and 15 percent fine distinct irregular 5YR 4/6), moist, masses of oxidized iron with clear boundaries In matrix. Lab sample # 18N06218

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 25 2018
Describer: J. Lene, J. Hancock
NEON Plot ID: LENO_019
Site ID: S2018AL023019

Pedon ID: S2018AL023019

Site Note: Site sampled 1 meter south and 1 meter west (225 degrees) of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Jessica Lene.

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2056
Soil Name as Described/Sampled: Urbo
Classification: Fine, mixed, active, acid, thermic Vertic Epiaquepts

Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mooreville, Una, Urbo
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on tread of terrace on river valley
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS

Diagnostic Features: ochric epipedon 0 to 17 cm.
redox depletions with chroma 2 or less 17 to 38 cm.
redox concentrations 17 to 100 cm.
cambic horizon 17 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name:
Std Latitude: 31.8187000
Std Longitude: -88.1947750

Latitude: 31 degrees 49 minutes 7.32 seconds north
Longitude: 88 degrees 11 minutes 41.19 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 386922 meters
UTM Northing: 3520962 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: clayey alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023019 **Pedon ID:** S2018AL023019

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
1.0	32.3	90	18.0			1,429		somewhat poorly		

A--0 to 17 centimeters (0.0 to 6.7 inches); very dark grayish brown (10YR 3/2) clay; moderate medium subangular blocky structure; hard, firm, Noncemented, very sticky, very plastic; semideformable; common fine roots throughout and common coarse roots throughout; common very fine low-continuity dendritic tubular pores; 15 percent distinct 10YR 2/1), moist, organic stains on surfaces along root channels; 2 percent fine distinct spherical weakly cemented iron-manganese concretions with sharp boundaries In matrix and 5 percent fine distinct irregular 10YR 5/3), moist, iron depletions with clear boundaries In matrix; clear smooth boundary. Lab sample # 18N06219

Bw--17 to 38 centimeters (6.7 to 15.0 inches); dark grayish brown (10YR 4/2) clay; moderate medium subangular blocky structure; hard, firm, Noncemented, very sticky, very plastic; semideformable; common medium roots throughout and common fine roots throughout; common very fine low-continuity dendritic tubular pores; 5 percent distinct organic stains on surfaces along root channels and 10 percent distinct pressure faces on vertical faces of peds; 2 percent fine distinct spherical weakly cemented iron-manganese concretions with sharp boundaries In matrix and 5 percent fine distinct irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries In matrix and 10 percent fine distinct irregular 10YR 5/2), moist, iron depletions with clear boundaries In matrix; 2 percent krotovinas (volume percent); clear wavy boundary. Lab sample # 18N06220

Bg--38 to 100 centimeters (15.0 to 39.4 inches); grayish brown (10YR 5/2) clay; weak coarse prismatic parts to moderate medium subangular blocky structure; hard, firm, Noncemented, very sticky, very plastic; deformable; common very fine roots throughout and common fine roots throughout; common very fine low-continuity dendritic tubular pores; 5 percent distinct organic stains on surfaces along root channels and 10 percent distinct pressure faces on vertical faces of peds; 2 percent fine distinct spherical weakly cemented iron-manganese concretions with sharp boundaries In matrix and 5 percent fine distinct irregular 10YR 5/2), moist, iron depletions with clear boundaries In matrix and 20 percent fine distinct irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries In matrix. Lab sample # 18N06221

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 19 2018
Describer: Jessica R. Lene
NEON Plot ID: LENO_020
Site ID: S2018AL023020

Pedon ID: S2018AL023020

Site Note: Site sampled 1 meter south and 1 meter west (225 degrees) of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Jessica Lene.

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2057
Soil Name as Described/Sampled: Lenoir
Classification: Fine, mixed, semiactive, thermic Aeric Paleaquults

Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mooreville, Una, Urbo
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on dip flood plain on river valley
Upslope Shape: concave
Cross Slope Shape: concave
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS

Diagnostic Features: ochric epipedon 0 to 12 cm.
cambic horizon 12 to 32 cm.
redox depletions with chroma 2 or less 12 to 100 cm.
redox concentrations 12 to 100 cm.
argillic horizon 32 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name:
Std Latitude: 31.8247444
Std Longitude: -88.1926222

Latitude: 31 degrees 49 minutes 29.08 seconds north
Longitude: 88 degrees 11 minutes 33.44 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 387133 meters
UTM Northing: 3521630 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: clayey alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023020 **Pedon ID:** S2018AL023020

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
0.5	32.6	345	18.0			1,429		moderately well		

A--0 to 12 centimeters (0.0 to 4.7 inches); dark grayish brown (10YR 4/2) broken face; moderate medium subangular blocky parts to strong fine granular structure; moderately hard, firm, Noncemented, moderately sticky, moderately plastic; many medium roots throughout and many fine roots throughout; gradual smooth boundary. Lab sample # 18N06222

Bw--12 to 32 centimeters (4.7 to 12.6 inches); brown (10YR 4/3) broken face; moderate medium subangular blocky parts to strong fine granular structure; moderately hard, firm, Noncemented, moderately sticky, moderately plastic; many medium roots throughout and many coarse roots throughout; 5 percent medium distinct irregular 10YR 5/1), moist, iron depletions with clear boundaries On surfaces along root channels and 5 percent medium distinct irregular 5YR 4/6), moist, masses of oxidized iron with clear boundaries On surfaces along root channels; gradual smooth boundary. Lab sample # 18N06223

Bt1--32 to 60 centimeters (12.6 to 23.6 inches); brown (10YR 4/3) broken face; moderate medium subangular blocky parts to strong fine granular structure; hard, very firm, Noncemented, very sticky, very plastic; common very fine roots throughout and common fine roots throughout; 5 percent medium distinct irregular 5YR 4/6), moist, masses of oxidized iron with clear boundaries On vertical faces of peds and 15 percent medium distinct irregular 10YR 5/1), moist, iron depletions with clear boundaries On vertical faces of peds; gradual smooth boundary. Lab sample # 18N06224

Bt2--60 to 75 centimeters (23.6 to 29.5 inches); brown (10YR 4/3) broken face; moderate medium subangular blocky parts to strong fine granular structure; hard, very firm, Noncemented, very sticky, very plastic; many medium roots throughout and common fine roots throughout; 10 percent medium distinct irregular 5YR 4/6), moist, masses of oxidized iron with clear boundaries On vertical faces of peds and 15 percent medium distinct irregular 10YR 5/1), moist, iron depletions with clear boundaries On vertical faces of peds; gradual smooth boundary. Lab sample # 18N06225

Bt3--75 to 100 centimeters (29.5 to 39.4 inches); brown (10YR 4/3) broken face; moderate medium subangular blocky parts to strong fine granular structure; hard, very firm, Noncemented, very sticky, very plastic; common very fine roots throughout and common fine roots throughout; 20 percent medium distinct irregular 10YR 5/1), moist, iron depletions with clear boundaries On vertical faces of peds and 20 percent medium distinct irregular 5YR 4/6), moist, masses of oxidized iron with clear boundaries On vertical faces of peds. Lab sample # 18N06226

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 20 2018
Describer: J. Lene, J. Hancock
NEON Plot ID: LENO_021
Site ID: S2018AL023021

Pedon ID: S2018AL023021

Site Note: Site sampled 1 meter south and 1 meter west (225 degrees) of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Jessica Lene.

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2058
Soil Name as Described/Sampled: Mooreville
Classification: Fine-loamy, siliceous, active, thermic Fluvaquentic Dystrudepts
Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mooreville, Una, Urbo
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on dip flood plain on river valley
Upslope Shape: concave
Cross Slope Shape: concave
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 9 cm.
redox depletions with chroma 2 or less 9 to 68 cm.
cambic horizon 9 to 100 cm.
redox concentrations 9 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name:
Std Latitude: 31.8344333
Std Longitude: -88.1703139

Latitude: 31 degrees 50 minutes 3.96 seconds north
Longitude: 88 degrees 10 minutes 13.13 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 389256 meters
UTM Northing: 3522681 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: fine-loamy alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023021 **Pedon ID:** S2018AL023021

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
0.5	53.9	0	18.0			1,429		moderately well		

A--0 to 9 centimeters (0.0 to 3.5 inches); very dark grayish brown (10YR 3/2) broken face clay loam; moderate medium granular, and moderate fine granular structure; moderately hard, firm, Noncemented, moderately sticky, moderately plastic; semideformable; common medium roots throughout and many fine roots throughout and few coarse roots throughout; clear smooth boundary. Lab sample # 18N06227

Bw1--9 to 26 centimeters (3.5 to 10.2 inches); brown (10YR 4/3) broken face clay loam; moderate medium subangular blocky structure; moderately hard, firm, Noncemented, moderately sticky, moderately plastic; deformable; few medium roots throughout and few fine roots throughout and few coarse roots throughout; 5 percent fine distinct irregular 10YR 6/2), moist, iron depletions with clear boundaries In matrix and 5 percent fine distinct irregular 5YR 5/6), moist, masses of oxidized iron with clear boundaries In matrix; clear smooth boundary. Lab sample # 18N06228

Bw2--26 to 68 centimeters (10.2 to 26.8 inches); dark yellowish brown (10YR 4/6) broken face sandy clay loam; strong medium subangular blocky structure; hard, very firm, Noncemented, slightly sticky, moderately plastic; deformable; common medium roots throughout and common fine roots throughout; 10 percent distinct 10YR 2/1), moist, organic stains on all faces of peds; 20 percent fine distinct irregular 10YR 6/2), moist, iron depletions with clear boundaries In matrix and 20 percent fine distinct irregular 5YR 5/6), moist, masses of oxidized iron with clear boundaries In matrix; clear smooth boundary. Lab sample # 18N06229

Bg--68 to 100 centimeters (26.8 to 39.4 inches); grayish brown (10YR 5/2) clay loam; moderate medium subangular blocky structure; moderately hard, firm, Noncemented, slightly sticky, moderately plastic; deformable; few fine roots throughout; 10 percent distinct 10YR 3/3), moist, organic stains on surfaces along root channels; 40 percent fine distinct irregular 5YR 5/6), moist, masses of oxidized iron with clear boundaries In matrix. Lab sample # 18N06230

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 25 2018
Describer: J. Velazquez, M. Williams, S. Depew, M. Singer
NEON Plot ID: LENO_022
Site ID: S2018AL023022

Pedon ID: S2018AL023022

Site Note: Site sampled 1 meter south and 1 meter west of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Joxelle Velazquez.
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2059
Soil Name as Described/Sampled: Mantachie
Classification: Fine-loamy, siliceous, active, acid, thermic Fluventic Endoaquepts
Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mooreville, Una, Urbo
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on rise river valley
on rise flood plain
Upslope Shape: concave
Cross Slope Shape: linear
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 10 cm.
redox concentrations 0 to 100 cm.
redox depletions with chroma 2 or less 10 to 100 cm.
cambic horizon 10 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name: Coffeeville Lock And Dam, Alabama
Std Latitude: 31.8154167
Std Longitude: -88.2043333

Latitude: 31 degrees 48 minutes 55.50 seconds north
Longitude: 88 degrees 12 minutes 15.60 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 386013 meters
UTM Northing: 3520608 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: loamy alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023022 **Pedon ID:** S2018AL023022

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
2.0	11.0	90	18.0			1,429		somewhat poorly		

A--0 to 10 centimeters (0.0 to 3.9 inches); brown (10YR 4/3) loam; weak fine subangular blocky, and weak medium subangular blocky structure; friable, nonsticky, nonplastic; deformable; many medium roots throughout and many fine roots throughout; 1 percent fine distinct irregular 7.5YR 6/6), moist, masses of oxidized iron with clear boundaries In matrix; gradual smooth boundary. Lab sample # 18N06231

Bw--10 to 42 centimeters (3.9 to 16.5 inches); 40 percent light brownish gray (10YR 6/2) and 30 percent brownish yellow (10YR 6/6) and 30 percent yellowish brown (10YR 5/8) clay loam; weak coarse subangular blocky structure; friable, nonsticky, nonplastic; deformable; common medium roots throughout and common fine roots throughout and few coarse roots throughout; 15 percent fine prominent irregular 5YR 5/8), moist, masses of oxidized iron with sharp boundaries In matrix and 30 percent medium distinct irregular 10YR 6/6), moist, masses of oxidized iron with clear boundaries In matrix and 40 percent medium faint irregular 10YR 6/2), moist, iron depletions with clear boundaries In matrix; gradual wavy boundary. Lab sample # 18N06232

Bg--42 to 100 centimeters (16.5 to 39.4 inches); light brownish gray (10YR 6/2) very fine sandy loam; weak coarse subangular blocky structure; friable, nonsticky, nonplastic; deformable; common medium roots throughout and common fine roots throughout and few coarse roots throughout; 15 percent fine prominent irregular 7.5YR 5/8), moist, masses of oxidized iron with clear boundaries In matrix and 30 percent medium distinct irregular 10YR 5/8), moist, masses of oxidized iron with clear boundaries In matrix. Lab sample # 18N06233

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 25 2018
Describer: J. Lene, J. Hancock
NEON Plot ID: LENO_023
Site ID: S2018AL023023

Pedon ID: S2018AL023023

Site Note: Site sampled 1.5 meter 195 degrees of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Joxelle Velazquez.
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2060
Soil Name as Described/Sampled: Riverview
Classification: Fine-loamy, active, thermic Fluventic Dystrudepts

Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mooreville, Una, Urbo
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on talf river valley
on talf flood plain
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 10 cm.
redox concentrations 0 to 10 cm.
cambic horizon 10 to 100 cm.
redox concentrations 27 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name: Coffeeville Lock And Dam, Alabama
Std Latitude: 31.8088583
Std Longitude: -88.1800694

Latitude: 31 degrees 48 minutes 31.89 seconds north
Longitude: 88 degrees 10 minutes 48.25 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 388302 meters
UTM Northing: 3519856 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: fine-loamy alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023023 **Pedon ID:** S2018AL023023

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
1.0	33.5	240	18.0			1,429		well		

A--0 to 10 centimeters (0.0 to 3.9 inches); very dark grayish brown (10YR 3/2) broken face loam; moderate medium subangular blocky structure; moderately hard, firm, Noncemented, moderately sticky, moderately plastic; semideformable; many very fine roots throughout and many medium roots throughout and many fine roots throughout; common fine low-continuity dendritic tubular pores; 2 percent medium distinct irregular iron depletions with diffuse boundaries On vertical faces of peds and 5 percent medium distinct irregular 10YR 4/3), moist, iron depletions with diffuse boundaries On vertical faces of peds; clear smooth boundary. Lab sample # 18N06234

Bw--10 to 27 centimeters (3.9 to 10.6 inches); dark yellowish brown (10YR 4/4) broken face very fine sandy loam; moderate medium subangular blocky structure; slightly hard, firm, Noncemented, slightly sticky, slightly plastic; deformable; common very fine roots throughout and common medium roots throughout and many fine roots throughout; common fine low-continuity dendritic tubular pores; clear wavy boundary. Lab sample # 18N06235

Ab--27 to 52 centimeters (10.6 to 20.5 inches); very dark grayish brown (10YR 3/2) broken face clay loam; 40 percent medium distinct irregular (10YR 4/4) mottles; moderate medium subangular blocky structure; moderately hard, firm, Noncemented, moderately sticky, moderately plastic; deformable; common medium roots throughout and common fine roots throughout; common medium low-continuity dendritic tubular pores; 5 percent fine prominent irregular extremely weakly cemented 10YR 2/1), moist, manganese masses with sharp boundaries In matrix and 5 percent fine distinct irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries In matrix; gradual wavy boundary. Lab sample # 18N06236

Bwb--52 to 100 centimeters (20.5 to 39.4 inches); dark yellowish brown (10YR 4/4) broken face clay; moderate medium subangular blocky structure; hard, very firm, Noncemented, very sticky, very plastic; deformable; common very fine roots throughout; common fine low-continuity dendritic tubular pores; 2 percent fine prominent irregular extremely weakly cemented 10YR 2/1), moist, manganese masses with sharp boundaries In matrix and 5 percent fine distinct irregular 10YR 5/3), moist, iron depletions with clear boundaries In matrix and 5 percent fine distinct irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries In matrix. Lab sample # 18N06237

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 25 2018
Describer: M. Williams, J. Velazquez, S. Depew, M. Singer
NEON Plot ID: LENO_027
Site ID: S2018AL023027

Pedon ID: S2018AL023027

Site Note: Site sampled 1 meter south and 1 meter west of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Joxelle Velazquez.
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2061
Soil Name as Described/Sampled: Urbo
Classification: Fine, mixed, active, acid, thermic Vertic Epiaquepts

Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mantachie, Moorevillle, Una
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on rise river valley
on rise flood plain
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS
Diagnostic Features: ochric epipedon 0 to 13 cm.
cambic horizon 13 to 100 cm.
redox concentrations 13 to 100 cm.
redox depletions with chroma 2 or less 13 to 100 cm.
slickensides 76 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name: Coffeeville Lock And Dam, Alabama
Std Latitude: 31.8168056
Std Longitude: -88.2002778

Latitude: 31 degrees 49 minutes 0.50 seconds north
Longitude: 88 degrees 12 minutes 1.00 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 386399 meters
UTM Northing: 3520758 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: clayey alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023027 **Pedon ID:** S2018AL023027

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
0.5	11.0	196	18.0			1,429		somewhat poorly		

A--0 to 13 centimeters (0.0 to 5.1 inches); very dark grayish brown (10YR 3/2) silty clay loam; weak fine subangular blocky, and weak medium subangular blocky structure; friable, slightly sticky, slightly plastic; deformable; few very fine roots throughout and very few very coarse roots throughout and many medium roots throughout and many fine roots throughout; gradual smooth boundary. Lab sample # 18N06238

Bw--13 to 42 centimeters (5.1 to 16.5 inches); brown (10YR 4/3) clay; moderate medium prismatic parts to weak medium angular blocky structure; firm, moderately sticky, moderately plastic; deformable; few very fine roots throughout and very few very coarse roots throughout and common medium roots throughout and few fine roots throughout; 8 percent medium distinct irregular 10YR 3/2), moist, masses of oxidized iron with clear boundaries Throughout and 15 percent fine distinct irregular 10YR 5/2), moist, iron depletions with clear boundaries Throughout; gradual wavy boundary. Lab sample # 18N06239

Bg--42 to 76 centimeters (16.5 to 29.9 inches); dark grayish brown (10YR 4/2) clay; moderate very coarse prismatic parts to moderate medium angular blocky structure; very firm, very sticky, very plastic; deformable; common medium roots throughout and common fine roots throughout; 5 percent distinct pressure faces on vertical faces of peds; 15 percent medium distinct irregular 10YR 3/2), moist, masses of oxidized iron with clear boundaries Throughout; gradual wavy boundary. Lab sample # 18N06240

Bssg--76 to 100 centimeters (29.9 to 39.4 inches); gray (10YR 5/1) clay; moderate very coarse prismatic parts to moderate coarse angular blocky structure; very firm, very sticky, very plastic; deformable; 3 percent distinct slickensides (pedogenic) on vertical faces of peds and 5 percent distinct pressure faces on vertical faces of peds; 1 percent fine prominent irregular 5YR 5/6), moist, masses of oxidized iron with clear boundaries Throughout and 30 percent medium distinct irregular 10YR 4/3), moist, masses of oxidized iron with clear boundaries Throughout. Lab sample # 18N06241

PEDON DESCRIPTION -- NEON Site LENO

Print Date: Oct 14 2018
Description Date: Jul 21 2018
Describer: J. Lene
NEON Plot ID: LENO_029
Site ID: S2018AL023029

Pedon ID: S2018AL023029

Site Note: Site sampled 1 meter south and 1 meter west (225 degrees) of SW_31. Photographs of the soil profile, as well as significant features within the profile has been documented by Jessica Lene.

Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2062
Soil Name as Described/Sampled: Riverview
Classification: Fine-loamy, mixed, active, thermic Fluventic Dystrudepts

Soil Name as Correlated:

Classification:
Pedon Type: correlates to named soil
Pedon Purpose: ecological site data
Taxon Kind: series
Associated Soils: Kinston, Mooreville, Una, Urbo
Physiographic Division: Atlantic Plain
Physiographic Province: Coastal Plain
Physiographic Section: East Gulf Coastal plain
State Physiographic Area:
Local Physiographic Area: Choctaw National Wildlife Refuge
Geomorphic Setting: on talf flood plain on river valley
Upslope Shape: linear
Cross Slope Shape: convex
Particle Size Control Section: 25 to 100 cm.
Description origin: NASIS

Diagnostic Features: ochric epipedon 0 to 12 cm.
cambic horizon 12 to 32 cm.
redox depletions with chroma 2 or less 12 to 100 cm.
redox concentrations 12 to 100 cm.
argillic horizon 32 to 100 cm.

Country: United States
State: Alabama
County: Choctaw
MLRA: 133A -- Southern Coastal Plain
Soil Survey Area: AL023 -- Choctaw County, Alabama
7-MER -- Meridian, Mississippi
Map Unit: UrB -- Urbo-Mooreville-Una complex, 0 to 3 percent slopes, frequently flooded

Pit Location:

Quad Name:
Std Latitude: 31.8308083
Std Longitude: -88.1711139

Latitude: 31 degrees 49 minutes 50.91 seconds north
Longitude: 88 degrees 10 minutes 16.01 seconds west
Datum: WGS84
UTM Zone: 16
UTM Easting: 389176 meters
UTM Northing: 3522280 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Hardwoods
Existing Vegetation:
Parent Material: fine-loamy alluvium
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018AL023029 **Pedon ID:** S2018AL023029

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
0.5	13.0	5	18.0			1,429		well		

A--0 to 34 centimeters (0.0 to 13.4 inches); brown (10YR 4/3) broken face fine sandy loam; moderate fine granular structure; moderately hard, firm, Noncemented, moderately sticky, moderately plastic; common medium roots throughout and common fine roots throughout and many coarse roots throughout; many medium low-continuity tubular pores; 10 percent distinct 10YR 2/1), moist, organic stains on surfaces along root channels; abrupt smooth boundary. Lab sample # 18N06242

Bw--34 to 81 centimeters (13.4 to 31.9 inches); dark brown (10YR 3/3) broken face clay loam; moderate medium subangular blocky structure; hard, very firm, Noncemented, very sticky, very plastic; common very fine roots throughout; abrupt wavy boundary. Lab sample # 18N06243

C--81 to 100 centimeters (31.9 to 39.4 inches); brown (10YR 4/3) broken face clay loam; weak medium subangular blocky parts to weak fine granular structure; hard, very firm, Noncemented, very sticky, very plastic; many medium roots throughout and common fine roots throughout; . Lab sample # 18N06244