

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: May 11 2016
Describer: Roger DeKett
NEON Plot ID: BART_018
Site ID: S2016NH003001

Country: United States
State: New Hampshire
County: Carroll
MLRA: 143 -- Northeastern Mountains
Soil Survey Area: NH605 -- White Mountain National Forest, New Hampshire and Maine 12-STJ -- Saint Johnsbury, Vermont

Pedon ID: S2016NH003001

Site Note:

Pedon Note: evidence of tree throw in profile

Lab Source ID: KSSL

Lab Pedon #: 16N1100

Soil Name as Described/Sampled: Wilmington

Classification: Loamy, isotic, frigid, shallow Typic Endoaquods

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind: series

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: on backslope of mountainbase of mountain
on backslope of mountainbase of mountains

Upslope Shape: linear

Cross Slope Shape: linear

Particle Size Control Section: 13 to 49 cm.

Description origin: Pedon PC 6.2

Diagnostic Features: ochric epipedon 0 to 23 cm.
spodic horizon 23 to 33 cm.
densic contact 49 to cm.

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0585778

Std Longitude: -71.2781944

Latitude: 44 degrees 3 minutes 30.88 seconds north

Longitude: 71 degrees 16 minutes 41.50 seconds west

Datum: WGS84

UTM Zone: 19

UTM Easting: 317526 meters

UTM Northing: 4880902 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Intermixed conifers and hardwoods

Existing Vegetation:

Parent Material: lodgment till

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Top Depth (cm)	Bottom Depth (cm)	Restriction Kind	Restriction Hardness
49		densic material	Noncemented

Cont. Site ID: S2016NH003001

Pedon ID: S2016NH003001

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
7.0	330.0	10						poorly		

Oa--0 to 13 centimeters (0.0 to 5.1 inches); black (7.5YR 2.5/1) muck; massive; friable; many very fine roots and common medium roots and many fine roots and common coarse roots; very strongly acid, pH 5.0, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04933

E/B--13 to 23 centimeters (5.1 to 9.1 inches); bouldery fine sandy loam; weak fine subangular blocky structure; friable; many very fine roots and many medium roots and many fine roots and common coarse roots; 30 percent medium distinct 7.5YR 4/6) iron-manganese masses; 10 percent nonflat subangular indurated 600-millimeter Igneous rock fragments and 10 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions; clear wavy boundary. Lab sample # 16N04934

Bs1--23 to 33 centimeters (9.1 to 13.0 inches); dark brown (7.5YR 3/4) bouldery fine sandy loam; weak fine subangular blocky structure; friable; common very fine roots and many medium roots and many fine roots and few coarse roots; 30 percent fine distinct 5YR 4/6) iron-manganese masses and 30 percent medium prominent 2.5Y 5/2) iron depletions; 10 percent nonflat subangular indurated 600-millimeter Igneous rock fragments and 10 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments and 10 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments; strongly acid, pH 5.3, pH indicator solutions; gradual wavy boundary. Lab sample # 16N04935

Bs2--33 to 49 centimeters (13.0 to 19.3 inches); dark brown (10YR 3/3) very fine sandy loam; weak fine subangular blocky structure; friable; common very fine roots and common medium roots and many fine roots; 30 percent coarse distinct 2.5Y 5/2) iron depletions; 13 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04936. includes some buried O horizon

Cd--49 to 100 centimeters (19.3 to 39.4 inches); light olive brown (2.5Y 5/3) fine sandy loam; weak medium platy structure; firm; 30 percent medium faint 2.5Y 6/2) iron depletions and 30 percent coarse prominent 10YR 4/6) iron-manganese masses; 1 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 11 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.4, pH indicator solutions. Lab sample # 16N04937

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: May 17 2016
Describer: Roger DeKett
NEON Plot ID: BART_081
Site ID: S2016NH003002

Pedon ID: S2016NH003002

Site Note:

Pedon Note:

Lab Source ID: KSSL

Lab Pedon #: 16N1101

Soil Name as Described/Sampled: Adirondack

Classification: Coarse-loamy, isotic, frigid Aquic Haplorthods

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind: taxadjunct

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: microlow on backslope of mountainflank of mountain
microlow on backslope of mountainflank of mountains

Upslope Shape: linear

Cross Slope Shape: convex

Particle Size Control Section: 34 to 109 cm.

Description origin: Pedon PC 6.2

Diagnostic Features: ochric epipedon 0 to 13 cm.
albic horizon 9 to 13 cm.
spodic horizon 13 to 27 cm.

Country: United States

State: New Hampshire

County: Carroll

MLRA: 143 -- Northeastern Mountains

Soil Survey Area: NH605 -- White Mountain National Forest, New Hampshire and Maine 12-STJ -- Saint Johnsbury, Vermont

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0606139

Std Longitude: -71.2631639

Latitude: 44 degrees 3 minutes 38.21 seconds north

Longitude: 71 degrees 15 minutes 47.39 seconds west

Datum: WGS84

UTM Zone: 19

UTM Easting: 318736 meters

UTM Northing: 4881095 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Intermixed conifers and hardwoods

Existing Vegetation: American beech, eastern hemlock, oak, paper birch, red spruce

Parent Material: melt-out till

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments: 3.0 percent indurated 250 Granite fragments

Description database: KSSL

Cont. Site ID: S2016NH003002

Pedon ID: S2016NH003002

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
40.0	420.0	250						somewhat poorly		

Oa--0 to 9 centimeters (0.0 to 3.5 inches); very dusky red (10R 2.5/2) highly decomposed plant material; massive; friable; many very fine roots and many medium roots and many fine roots and many coarse roots; extremely acid, pH 3.9, pH indicator solutions; abrupt smooth boundary. Lab sample # 16N04938

E--9 to 13 centimeters (3.5 to 5.1 inches); gray (5YR 6/1) cobbly fine sandy loam; weak fine granular structure; friable; common medium roots and common fine roots; 5 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments and 9 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments and 15 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments; extremely acid, pH 4.2, pH indicator solutions; abrupt smooth boundary. Lab sample # 16N04939

Bhs--13 to 18 centimeters (5.1 to 7.1 inches); dusky red (2.5YR 3/2) cobbly fine sandy loam; weak medium granular structure; friable by iron; many very fine roots and many medium roots and many fine roots and common coarse roots; 5 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments and 6 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments and 15 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments; very strongly acid, pH 4.8, pH indicator solutions; clear wavy boundary. Lab sample # 16N04940. 5% cemented

Bs--18 to 27 centimeters (7.1 to 10.6 inches); brown (7.5YR 4/4) gravelly fine sandy loam; weak fine granular structure; friable; many very fine roots and many medium roots and many fine roots and common coarse roots; 10 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 20 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 5.0, pH indicator solutions; gradual wavy boundary. Lab sample # 16N04941

BC1--27 to 54 centimeters (10.6 to 21.3 inches); dark yellowish brown (10YR 4/6) gravelly fine sandy loam; weak fine subangular blocky structure; friable; common very fine roots and common medium roots and many fine roots; 30 percent medium faint 5YR 4/6 iron-manganese masses and 30 percent coarse prominent 2.5Y 6/2 iron depletions; 10 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 20 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 5.0, pH indicator solutions; clear wavy boundary. Lab sample # 16N04942

BC2--54 to 100 centimeters (21.3 to 39.4 inches); dark yellowish brown (10YR 4/4) cobbly fine sandy loam; weak fine subangular blocky structure; friable; few medium roots and few fine roots; 10 percent medium distinct 2.5Y 6/2 iron depletions and 30 percent medium prominent 10YR 5/8 masses of oxidized iron; 12 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments and 15 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions. Lab sample # 16N04943. at 100 cm there is a large root mass

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: May 19 2016
Describer: Roger DeKett
NEON Plot ID: BART_012
Site ID: S2016NH003003

Pedon ID: S2016NH003003

Site Note:

Pedon Note: broken buried E horizon

Lab Source ID: KSSL

Lab Pedon #: 16N1102

Soil Name as Described/Sampled: Danforth

Classification: Loamy-skeletal, mixed, active, frigid Typic Dystrudepts

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind: taxadjunct

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: on backslope of mountainflank of mountain
on backslope of mountainflank of mountains

Upslope Shape: convex

Cross Slope Shape: linear

Particle Size Control Section: 28 to 103 cm.

Description origin: Pedon PC 6.2

Diagnostic Features: ochric epipedon 0 to 7 cm.
cambic horizon 7 to 29 cm.

Country: United States

State: New Hampshire

County: Carroll

MLRA: 143 -- Northeastern Mountains

Soil Survey Area: NH605 -- White Mountain
National Forest, New Hampshire and Maine
12-STJ -- Saint Johnsbury, Vermont

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0462833

Std Longitude: -71.3165278

Latitude: 44 degrees 2 minutes 46.62 seconds
north

Longitude: 71 degrees 18 minutes 59.50 seconds
west

Datum: WGS84

UTM Zone: 19

UTM Easting: 314417 meters

UTM Northing: 4879622 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Hardwoods

Existing Vegetation:

Parent Material: ablation till

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments: 3.0 percent indurated 250
Granite fragments

Description database: KSSL

Cont. Site ID: S2016NH003003

Pedon ID: S2016NH003003

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
12.0	577.0	115						well		

Oa--0 to 3 centimeters (0.0 to 1.2 inches); black (10YR 2/1) highly decomposed plant material; massive; friable; many very fine roots and many medium roots and many fine roots; very strongly acid, pH 4.8, pH indicator solutions; clear wavy boundary. Lab sample # 16N04944

A--3 to 7 centimeters (1.2 to 2.8 inches); dark brown (7.5YR 3/2) gravelly fine sandy loam; weak fine granular structure; friable; many very fine roots and many medium roots and many fine roots and common coarse roots; 2 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 15 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 5.0, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04945

Bw1--7 to 29 centimeters (2.8 to 11.4 inches); dark yellowish brown (10YR 4/4) gravelly fine sandy loam; weak medium platy structure; friable; many very fine roots and common medium roots and many fine roots and few coarse roots; 10 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 15 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions; gradual wavy boundary. Lab sample # 16N04946

Bw2--29 to 52 centimeters (11.4 to 20.5 inches); dark yellowish brown (10YR 4/4) cobbly fine sandy loam; weak medium subangular blocky structure; friable; few very fine roots and few medium roots and common fine roots; 2 percent nonflat subrounded indurated 250 to 600-millimeter Igneous rock fragments and 15 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments and 15 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments; strongly acid, pH 5.4, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04947

C--52 to 100 centimeters (20.5 to 39.4 inches); dark yellowish brown (10YR 4/4) extremely cobbly loamy coarse sand; single grain; loose; few fine roots; 10 percent nonflat subrounded indurated 250 to 600-millimeter Igneous rock fragments and 25 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 35 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.4, pH indicator solutions. Lab sample # 16N04948

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: May 23 2016
Describer: Jessica Philippe
NEON Plot ID: BART_062
Site ID: S2016NH003004

Pedon ID: S2016NH003004

Site Note:

Pedon Note:

Lab Source ID: KSSL

Lab Pedon #: 16N1103

Soil Name as Described/Sampled: Monadnock or Berkshire

Classification:

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind:

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: on backslope of mountainflank of mountain
on backslope of mountainflank of mountains

Upslope Shape: linear

Cross Slope Shape: linear

Particle Size Control Section: 38 to 100 cm.

Description origin: Pedon PC 6.2

Diagnostic Features: ochric epipedon 0 to 36 cm.
albic horizon 13 to 36 cm.
spodic horizon 36 to 62 cm.

Country: United States

State: New Hampshire

County: Carroll

MLRA: 143 -- Northeastern Mountains

Soil Survey Area: NH605 -- White Mountain
National Forest, New Hampshire and Maine
12-STJ -- Saint Johnsbury, Vermont

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0572667

Std Longitude: -71.3061306

Latitude: 44 degrees 3 minutes 26.16 seconds
north

Longitude: 71 degrees 18 minutes 22.07 seconds
west

Datum: WGS84

UTM Zone: 19

UTM Easting: 315284 meters

UTM Northing: 4880819 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Intermixed conifers and
hardwoods

Existing Vegetation: American beech

Parent Material: ablation till

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Cont. Site ID: S2016NH003004

Pedon ID: S2016NH003004

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
25.0	407.0	100						well		

Oa--0 to 13 centimeters (0.0 to 5.1 inches); black (7.5YR 2.5/1) highly decomposed plant material; massive; friable; common very fine roots and common medium roots and many fine roots and few coarse roots; 2 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 4.8, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04949

E--13 to 36 centimeters (5.1 to 14.2 inches); grayish brown (10YR 5/2) very gravelly fine sandy loam; weak fine subangular blocky structure; friable; many very fine roots and few medium roots and common fine roots and few coarse roots; 2 percent nonflat subrounded indurated 250 to 600-millimeter Igneous rock fragments and 10 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 27 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.1, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04950

Bs1--36 to 62 centimeters (14.2 to 24.4 inches); strong brown (7.5YR 4/6) fine sandy loam; weak fine subangular blocky structure; friable; few very fine roots and few medium roots and few fine roots; 2 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 2 percent nonflat subrounded indurated 250 to 600-millimeter Igneous rock fragments and 9 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 5.0, pH indicator solutions; clear wavy boundary. Lab sample # 16N04951

Bs2--62 to 100 centimeters (24.4 to 39.4 inches); dark yellowish brown (10YR 4/6) cobbly fine sandy loam; friable; few very fine roots and few medium roots and few fine roots; 5 percent nonflat subrounded indurated 250 to 600-millimeter Igneous rock fragments and 10 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 17 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.4, pH indicator solutions. Lab sample # 16N04952

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: May 31 2016
Describer: Roger DeKett
NEON Plot ID: BART_027
Site ID: S2016NH003005

Pedon ID: S2016NH003005

Site Note:

Pedon Note:

Lab Source ID: KSSL

Lab Pedon #: 16N1104

Soil Name as Described/Sampled: Danforth

Classification: Loamy-skeletal, isotic, frigid Typic Haplorthods

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind: series

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: microslopes on backslopes of mountainflank of mountain

microslopes on backslopes of mountainflank of mountains

Upslope Shape: convex

Cross Slope Shape: convex

Particle Size Control Section: 55 to 130 cm.

Description origin: Pedon PC 6.2

Diagnostic Features: folistic epipedon 0 to 30 cm.
albic horizon 30 to 35 cm.
spodic horizon 35 to 47 cm.

Country: United States

State: New Hampshire

County: Carroll

MLRA: 143 -- Northeastern Mountains

Soil Survey Area: NH605 -- White Mountain National Forest, New Hampshire and Maine 12-STJ -- Saint Johnsbury, Vermont

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0579083

Std Longitude: -71.2618806

Latitude: 44 degrees 3 minutes 28.47 seconds north

Longitude: 71 degrees 15 minutes 42.77 seconds west

Datum: WGS84

UTM Zone: 19

UTM Easting: 318831 meters

UTM Northing: 4880792 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Conifers

Existing Vegetation: eastern hemlock, red spruce

Parent Material: ablation till

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Cont. Site ID: S2016NH003005

Pedon ID: S2016NH003005

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
42.0	436.0	335						well		

Oa1--0 to 24 centimeters (0.0 to 9.4 inches); black (5YR 2.5/1) highly decomposed plant material; massive; friable; many very fine roots and many medium roots and many fine roots and many coarse roots; extremely acid, pH 4.0, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04953. decomposed log makes up 10% of horizon

Oa2--24 to 30 centimeters (9.4 to 11.8 inches); reddish black (2.5YR 2.5/1) highly decomposed plant material; massive; friable; many very fine roots and many medium roots and many fine roots and many coarse roots; extremely acid, pH 4.0, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04954

E--30 to 35 centimeters (11.8 to 13.8 inches); gray (7.5YR 6/1) fine sandy loam; weak fine subangular blocky structure; friable; common very fine roots and common medium roots and many fine roots; 5 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; extremely acid, pH 4.4, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04955

Bhs--35 to 47 centimeters (13.8 to 18.5 inches); fine sandy loam; weak medium subangular blocky structure; friable by iron; common very fine roots and many medium roots and many fine roots; 1 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 7 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 4.8, pH indicator solutions; clear wavy boundary. Lab sample # 16N04956. 30% cemented

BC--47 to 73 centimeters (18.5 to 28.7 inches); dark yellowish brown (10YR 4/4) stony fine sandy loam; weak fine subangular blocky structure; friable; common medium roots and common fine roots; 1 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 7 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments and 20 percent nonflat subrounded indurated 250 to 600-millimeter Igneous rock fragments; very strongly acid, pH 5.0, pH indicator solutions; clear wavy boundary. Lab sample # 16N04957

C--73 to 100 centimeters (28.7 to 39.4 inches); light olive brown (2.5Y 5/4) very stony fine sandy loam; massive; friable; 10 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 15 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments and 20 percent nonflat subrounded indurated 250 to 600-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions. Lab sample # 16N04958. consistence is firm in place but friable in hand

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: Jun 2 2016
Describer: Roger DeKett
NEON Plot ID: BART_030
Site ID: S2016NH003006

Pedon ID: S2016NH003006

Site Note:

Pedon Note: average rock fragments 56% in ps control section

Lab Source ID: KSSL

Lab Pedon #: 16N1105

Soil Name as Described/Sampled: Danforth

Classification: Coarse-loamy over sandy or sandy-skeletal, isotic over mixed, frigid Typic Haplorthods

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind: taxadjunct

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: microslopes on backslopes of mountainflank of mountain

microslopes on backslopes of mountainflank of mountains

Upslope Shape: convex

Cross Slope Shape: convex

Particle Size Control Section: 43 to 118 cm.

Description origin: Pedon PC 6.2

Diagnostic Features: foliastic epipedon 0 to 18 cm.
albic horizon 18 to 36 cm.
spodic horizon 36 to 50 cm.
ortstein 36 to 50 cm.

Country: United States

State: New Hampshire

County: Carroll

MLRA: 143 -- Northeastern Mountains

Soil Survey Area: NH605 -- White Mountain National Forest, New Hampshire and Maine 12-STJ -- Saint Johnsbury, Vermont

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0537083

Std Longitude: -71.3080528

Latitude: 44 degrees 3 minutes 13.35 seconds north

Longitude: 71 degrees 18 minutes 28.99 seconds west

Datum: WGS84

UTM Zone: 19

UTM Easting: 315119 meters

UTM Northing: 4880428 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Conifers

Existing Vegetation:

Parent Material: ablation till

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
43.0	523.0	360						well		

Oe--0 to 4 centimeters (0.0 to 1.6 inches); black (10YR 2/1) moderately decomposed plant material; massive; friable; many very fine roots and many medium roots and many fine roots; extremely acid, pH 4.4, pH indicator solutions; clear wavy boundary. Lab sample # 16N04959

Oa--4 to 18 centimeters (1.6 to 7.1 inches); black (10YR 2/1) highly decomposed plant material; massive; friable; many very fine roots and many medium roots and many fine roots and many coarse roots; extremely acid, pH 4.0, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04960

E--18 to 36 centimeters (7.1 to 14.2 inches); gray (10YR 5/1) cobbly loamy sand; weak fine granular structure; friable; many very fine roots and common medium roots and many fine roots; 5 percent nonflat subrounded indurated 250 to 600-millimeter Igneous rock fragments and 10 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments and 10 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments; very strongly acid, pH 4.8, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04961

Bhs--36 to 50 centimeters (14.2 to 19.7 inches); cobbly fine sandy loam; weak medium subangular blocky structure; firm by iron; common very fine roots and common medium roots and common fine roots; 2 percent nonflat subrounded indurated 250 to 600-millimeter Igneous rock fragments and 10 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 15 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 4.8, pH indicator solutions; gradual wavy boundary. Lab sample # 16N04962. 70% cemented by iron

BC--50 to 76 centimeters (19.7 to 29.9 inches); dark yellowish brown (10YR 4/6) very cobbly loamy sand; 10 percent coarse prominent (5YR 3/4) mottles; weak fine subangular blocky structure; friable; common medium roots and common fine roots; 20 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments and 35 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions; gradual wavy boundary. Lab sample # 16N04963. iron stains

C--76 to 100 centimeters (29.9 to 39.4 inches); dark yellowish brown (10YR 4/4) extremely cobbly loamy sand; 10 percent coarse distinct (5YR 3/4) mottles; massive; loose; few fine roots; 2 percent nonflat subrounded indurated 250 to 600-millimeter Igneous rock fragments and 25 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments and 35 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments; strongly acid, pH 5.4, pH indicator solutions. Lab sample # 16N04964. iron stains

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: Jun 7 2016
Describer: Roger DeKett
NEON Plot ID: BART_019
Site ID: S2016NH003007

Pedon ID: S2016NH003007

Site Note:

Pedon Note:

Lab Source ID: KSSL

Lab Pedon #: 16N1106

Soil Name as Described/Sampled: Monadnock

Classification: Coarse-loamy over sandy or sandy-skeletal, isotic over mixed, frigid Typic Haplorthods

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind: series

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: microslopes on backslopes of mountainbases of mountains

microslopes on backslopes of mountainbases of mountains

Upslope Shape: convex

Cross Slope Shape: convex

Particle Size Control Section: 34 to 109 cm.

Description origin: Pedon PC 6.2

Diagnostic Features: ochric epipedon 0 to 12 cm.
albic horizon 9 to 12 cm.
spodic horizon 12 to 34 cm.

Country: United States

State: New Hampshire

County: Carroll

MLRA: 143 -- Northeastern Mountains

Soil Survey Area: NH605 -- White Mountain National Forest, New Hampshire and Maine 12-STJ -- Saint Johnsbury, Vermont

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0692361

Std Longitude: -71.2859611

Latitude: 44 degrees 4 minutes 9.25 seconds north

Longitude: 71 degrees 17 minutes 9.46 seconds west

Datum: WGS84

UTM Zone: 19

UTM Easting: 316937 meters

UTM Northing: 4882103 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Intermixed conifers and hardwoods

Existing Vegetation: American beech, eastern hemlock, sugar maple

Parent Material: ablation till

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Cont. Site ID: S2016NH003007

Pedon ID: S2016NH003007

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
10.0	263.0	320						well		

Oa--0 to 9 centimeters (0.0 to 3.5 inches); black (10YR 2/1) highly decomposed plant material; massive; friable; many very fine roots and many medium roots and many fine roots and few coarse roots; extremely acid, pH 4.2, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04965

E--9 to 12 centimeters (3.5 to 4.7 inches); gray (10YR 6/1) fine sandy loam; weak fine granular structure; friable; common very fine roots and common medium roots and common fine roots; 4 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 4.6, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04966

Bhs--12 to 34 centimeters (4.7 to 13.4 inches); fine sandy loam; weak medium subangular blocky structure; firm by iron; many very fine roots and many medium roots and many fine roots and many coarse roots; 2 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 10 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions; clear wavy boundary. Lab sample # 16N04967. 50% cemented

Bs--34 to 57 centimeters (13.4 to 22.4 inches); dark yellowish brown (10YR 4/6) gravelly fine sandy loam; weak medium subangular blocky structure; friable; common very fine roots and common medium roots and common fine roots; 10 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 17 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions; clear wavy boundary. Lab sample # 16N04968

BC--57 to 79 centimeters (22.4 to 31.1 inches); olive brown (2.5Y 4/4) gravelly fine sandy loam; weak medium subangular blocky structure; friable; few medium roots and few fine roots; 5 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 25 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.4, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04969

C--79 to 100 centimeters (31.1 to 39.4 inches); olive brown (2.5Y 4/3) loamy fine sand; massive; friable; few medium roots and few fine roots and few coarse roots; 7 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.4, pH indicator solutions. Lab sample # 16N04970

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: Jun 10 2016
Describer: Roger DeKett
NEON Plot ID: BART_023
Site ID: S2016NH003008

Pedon ID: S2016NH003008

Site Note:

Pedon Note:

Lab Source ID: KSSL

Lab Pedon #: 16N1107

Soil Name as Described/Sampled: Rawsonville

Classification: Coarse-loamy, isotic, frigid Typic Haplohumods

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind: series

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: microslopes on backslopes of mountainflank of mountain

microslopes on backslopes of mountainflank of mountains

Upslope Shape: convex

Cross Slope Shape: convex

Particle Size Control Section: 48 to 80 cm.

Description origin: Pedon PC 6.2

Diagnostic Features: foliastic epipedon 0 to 23 cm.
 albic horizon 23 to 29 cm.
 spodic horizon 29 to 80 cm.
 lithic contact 80 to cm.

Country: United States

State: New Hampshire

County: Carroll

MLRA: 143 -- Northeastern Mountains

Soil Survey Area: NH605 -- White Mountain National Forest, New Hampshire and Maine 12-STJ -- Saint Johnsbury, Vermont

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0491917

Std Longitude: -71.2635972

Latitude: 44 degrees 2 minutes 57.09 seconds north

Longitude: 71 degrees 15 minutes 48.95 seconds west

Datum: WGS84

UTM Zone: 19

UTM Easting: 318666 meters

UTM Northing: 4879828 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Intermixed conifers and hardwoods

Existing Vegetation: eastern hemlock, oak, paper birch, red spruce, sugar maple

Parent Material: supraglacial till

Bedrock Kind: Igneous rock

Bedrock Depth:

Bedrock Hardness: indurated

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Top Depth (cm)	Bottom Depth (cm)	Restriction Kind	Restriction Hardness
80		bedrock, lithic	Indurated

Cont. Site ID: S2016NH003008

Pedon ID: S2016NH003008

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
52.0	509.0	282						well		

Oa--0 to 23 centimeters (0.0 to 9.1 inches); black (10YR 2/1) highly decomposed plant material; massive; friable; many very fine roots and many medium roots and many fine roots and many coarse roots; extremely acid, pH 4.0, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04971

E--23 to 29 centimeters (9.1 to 11.4 inches); gray (7.5YR 5/1) gravelly fine sandy loam; weak fine granular structure; friable; many very fine roots and many medium roots and many fine roots; 2 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments and 5 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 20 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 4.8, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04972

Bhs1--29 to 37 centimeters (11.4 to 14.6 inches); reddish black (10R 2.5/1) gravelly fine sandy loam; weak fine granular structure; friable; strongly smeary; many very fine roots and many medium roots and many fine roots and many coarse roots; 17 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 5.0, pH indicator solutions; gradual wavy boundary. Lab sample # 16N04973

Bhs2--37 to 64 centimeters (14.6 to 25.2 inches); very dusky red (2.5YR 2.5/2) gravelly fine sandy loam; weak fine subangular blocky structure; friable; strongly smeary; common very fine roots and many medium roots and common fine roots; 17 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions; gradual wavy boundary. Lab sample # 16N04974

Bhs3--64 to 80 centimeters (25.2 to 31.5 inches); dark reddish brown (5YR 3/3) gravelly fine sandy loam; weak fine subangular blocky structure; friable; strongly smeary; common very fine roots and many medium roots and common fine roots; 17 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions; abrupt smooth boundary. Lab sample # 16N04975

R--80 to 200 centimeters (31.5 to 78.7 inches); bedrock; .

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: Jun 14 2016
Describer: Roger DeKett
NEON Plot ID: BART_024
Site ID: S2016NH003009

Pedon ID: S2016NH003009

Site Note:

Pedon Note:

Lab Source ID: KSSL

Lab Pedon #: 16N1108

Soil Name as Described/Sampled: Knob Lock

Classification: Dysic, frigid Lithic Udifolists

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind: series

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: microslopes on backslopes of mountainflank of mountain

microslopes on backslopes of mountainflank of mountains

Upslope Shape: convex

Cross Slope Shape: convex

Particle Size Control Section:

Description origin: Pedon PC 6.2

Diagnostic Features: foliastic epipedon 0 to 14 cm.
 albic horizon 14 to 20 cm.
 lithic contact 20 to cm.

Country: United States

State: New Hampshire

County: Carroll

MLRA: 143 -- Northeastern Mountains

Soil Survey Area: NH605 -- White Mountain National Forest, New Hampshire and Maine 12-STJ -- Saint Johnsbury, Vermont

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0529528

Std Longitude: -71.2635972

Latitude: 44 degrees 3 minutes 10.63 seconds north

Longitude: 71 degrees 15 minutes 48.95 seconds west

Datum: WGS84

UTM Zone: 19

UTM Easting: 318678 meters

UTM Northing: 4880245 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Conifers

Existing Vegetation: eastern hemlock, red spruce

Parent Material: supraglacial till

Bedrock Kind: Igneous rock

Bedrock Depth: 20 centimeters

Bedrock Hardness: indurated

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Top Depth (cm)	Bottom Depth (cm)	Restriction Kind	Restriction Hardness
20		bedrock, lithic	Indurated

Cont. Site ID: S2016NH003009

Pedon ID: S2016NH003009

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
55.0	444.0	345						well		

Oa--0 to 14 centimeters (0.0 to 5.5 inches); black (7.5YR 2.5/1) highly decomposed plant material; massive; friable; many very fine roots and common very coarse roots and many medium roots and many fine roots and many coarse roots; extremely acid, pH 4.0, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04976

E--14 to 20 centimeters (5.5 to 7.9 inches); very gravelly loamy sand; single grain; loose; common very fine roots and common very coarse roots and many medium roots and many fine roots and many coarse roots; 50 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; extremely acid, pH 4.2, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04977. E horizon is mixed with Cr

R--20 to 200 centimeters (7.9 to 78.7 inches); indurated Igneous rock bedrock; . granite bedrock

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: Jun 16 2016
Describer: Roger DeKett
NEON Plot ID: BART_015
Site ID: S2016NH003010

Pedon ID: S2016NH003010

Site Note:

Pedon Note:

Lab Source ID: KSSL

Lab Pedon #: 16N1109

Soil Name as Described/Sampled: Marlow

Classification: Coarse-loamy, isotic, frigid Oxyaquic Haplorthods

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind: series

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: microslope on backslope of mountainflank of mountain

microslope on backslope of mountainflank of mountains

Upslope Shape: convex

Cross Slope Shape: convex

Particle Size Control Section: 45 to 61 cm.

Description origin: Pedon PC 6.2

Diagnostic Features: folistic epipedon 0 to 20 cm.
 albic horizon 20 to 25 cm.
 spodic horizon 25 to 61 cm.
 densic contact 61 to cm.

Country: United States

State: New Hampshire

County: Carroll

MLRA: 143 -- Northeastern Mountains

Soil Survey Area: NH605 -- White Mountain National Forest, New Hampshire and Maine 12-STJ -- Saint Johnsbury, Vermont

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0428917

Std Longitude: -71.2729000

Latitude: 44 degrees 2 minutes 34.41 seconds north

Longitude: 71 degrees 16 minutes 22.44 seconds west

Datum: WGS84

UTM Zone: 19

UTM Easting: 317902 meters

UTM Northing: 4879149 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Intermixed conifers and hardwoods

Existing Vegetation: American beech, eastern hemlock, sugar maple

Parent Material: lodgment till

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Top Depth (cm)	Bottom Depth (cm)	Restriction Kind	Restriction Hardness
61		densic material	Noncemented

Cont. Site ID: S2016NH003010

Pedon ID: S2016NH003010

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
12.0	455.0	305						well		

Oa--0 to 20 centimeters (0.0 to 7.9 inches); highly decomposed plant material; massive; friable; many very fine roots and common very coarse roots and many medium roots and many fine roots and many coarse roots; extremely acid, pH 4.0, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04978

E--20 to 25 centimeters (7.9 to 9.8 inches); gray (7.5YR 5/1) fine sandy loam; weak fine subangular blocky structure; friable; common very fine roots and many medium roots and common fine roots and common coarse roots; 1 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 7 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 4.6, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04979

Bhs1--25 to 38 centimeters (9.8 to 15.0 inches); fine sandy loam; weak fine subangular blocky structure; firm by iron; common very fine roots and many medium roots and many fine roots and common coarse roots; 1 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments and 2 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 7 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; extremely acid, pH 4.0, pH indicator solutions; gradual wavy boundary. Lab sample # 16N04980. 20% cemented

Bhs2--38 to 61 centimeters (15.0 to 24.0 inches); dark reddish brown (2.5YR 3/3) gravelly fine sandy loam; weak fine subangular blocky structure; firm by iron; common very fine roots and few medium roots and common fine roots; 2 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 2 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments and 20 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 4.8, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04981. 40% cemented

Cd--61 to 100 centimeters (24.0 to 39.4 inches); olive brown (2.5Y 4/4) gravelly fine sandy loam; weak thin platy structure; firm; 30 percent coarse faint 7.5YR 4/4 iron-manganese masses; 2 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments and 5 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 25 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 5.0, pH indicator solutions. Lab sample # 16N04982

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: Jun 20 2016
Describer: Roger DeKett
NEON Plot ID: BART_010
Site ID: S2016NH003011

Country: United States
State: New Hampshire
County: Carroll
MLRA: 143 -- Northeastern Mountains
Soil Survey Area: NH605 -- White Mountain National Forest, New Hampshire and Maine 12-STJ -- Saint Johnsbury, Vermont

Pedon ID: S2016NH003011

Site Note:

Pedon Note: weighted average 44% rock frags on pscs

Lab Source ID: KSSL

Lab Pedon #: 16N1110

Soil Name as Described/Sampled: Marlow

Classification: Loamy-skeletal, isotic, frigid Oxyaquic Haplorthods

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind: taxadjunct

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: microslopes on backslopes of mountainflank of mountain

microslopes on backslopes of mountainflank of mountains

Upslope Shape: convex

Cross Slope Shape: convex

Particle Size Control Section: 29 to 88 cm.

Description origin: Pedon PC 6.2

Diagnostic Features: ochric epipedon 0 to 12 cm.
 albic horizon 4 to 12 cm.
 spodic horizon 12 to 34 cm.
 densic contact 88 to cm.

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0500028

Std Longitude: -71.2667639

Latitude: 44 degrees 3 minutes 0.01 seconds north

Longitude: 71 degrees 16 minutes 0.35 seconds west

Datum: WGS84

UTM Zone: 19

UTM Easting: 318416 meters

UTM Northing: 4879925 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Hardwoods

Existing Vegetation: American beech, oak, sugar maple, yellow birch

Parent Material: lodgment till

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Top Depth (cm)	Bottom Depth (cm)	Restriction Kind	Restriction Hardness
88		densic material	Noncemented

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
33.0	443.0	232						well		

Oe--0 to 4 centimeters (0.0 to 1.6 inches); black (5YR 2.5/1) moderately decomposed plant material; massive; friable; many very fine roots and common medium roots and many fine roots and common coarse roots; very strongly acid, pH 4.6, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04983

E--4 to 12 centimeters (1.6 to 4.7 inches); gray (10YR 5/1) very cobbly fine sandy loam; weak fine granular structure; friable; many very fine roots and many medium roots and many fine roots and many coarse roots; 3 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments and 15 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 20 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 4.8, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04984

Bhs--12 to 19 centimeters (4.7 to 7.5 inches); very dusky red (2.5YR 2.5/2) cobbly fine sandy loam; weak fine subangular blocky structure; friable; many very fine roots and many medium roots and many fine roots and common coarse roots; 3 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments and 10 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 15 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 4.8, pH indicator solutions; gradual wavy boundary. Lab sample # 16N04985

Bs--19 to 34 centimeters (7.5 to 13.4 inches); very cobbly fine sandy loam; weak fine subangular blocky structure; friable by iron; common very fine roots and common medium roots and many fine roots and few coarse roots; 3 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments and 15 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 20 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions; gradual wavy boundary. Lab sample # 16N04986. 30% cemented

BC--34 to 88 centimeters (13.4 to 34.6 inches); olive brown (2.5Y 4/3) very cobbly fine sandy loam; weak fine subangular blocky structure; friable; common very fine roots and common medium roots and common fine roots; 1 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments and 20 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 25 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04987

Cd--88 to 100 centimeters (34.6 to 39.4 inches); olive brown (2.5Y 4/3) very cobbly fine sandy loam; weak thin platy structure; very firm; few fine roots top of horizon; 1 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments and 20 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 25 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 5.0, pH indicator solutions. Lab sample # 16N04988

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: Jun 21 2016
Describer: Roger DeKett
NEON Plot ID: BART_005
Site ID: S2016NH003012

Pedon ID: S2016NH003012

Site Note:

Pedon Note: weighted average 55% rock frags on pscs

Lab Source ID: KSSL

Lab Pedon #: 16N1111

Soil Name as Described/Sampled: Series Not determined

Classification:

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind:

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: microslopes on toeslopes of mountainbase of mountain
 microslopes on toeslopes of mountainbase of mountains

Upslope Shape: linear

Cross Slope Shape: linear

Particle Size Control Section: 47 to 122 cm.

Description origin: Pedon PC 6.2

Diagnostic Features: histic epipedon 0 to 22 cm.
 albic horizon 22 to 29 cm.
 spodic horizon 29 to 76 cm.

Country: United States

State: New Hampshire

County: Carroll

MLRA: 143 -- Northeastern Mountains

Soil Survey Area: NH605 -- White Mountain National Forest, New Hampshire and Maine 12-STJ -- Saint Johnsbury, Vermont

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0546111

Std Longitude: -71.2824361

Latitude: 44 degrees 3 minutes 16.60 seconds north

Longitude: 71 degrees 16 minutes 56.77 seconds west

Datum: WGS84

UTM Zone: 19

UTM Easting: 317174 meters

UTM Northing: 4880471 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Intermixed conifers and hardwoods

Existing Vegetation: American beech, balsam fir, eastern hemlock, hobblebush, sugar maple, yellow birch

Parent Material: outwash

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Top Depth (cm)	Bottom Depth (cm)	Restriction Kind	Restriction Hardness
29	76	ortstein	Very strongly cemented

Cont. Site ID: S2016NH003012

Pedon ID: S2016NH003012

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	329.0	360						somewhat poorly		

Oa--0 to 22 centimeters (0.0 to 8.7 inches); black (10YR 2/1) highly decomposed plant material; friable; many very fine roots and common very coarse roots and many medium roots and many fine roots and many coarse roots; extremely acid, pH 4.0, pH indicator solutions; abrupt smooth boundary. Lab sample # 16N04989

E--22 to 29 centimeters (8.7 to 11.4 inches); gray (7.5YR 5/1) very gravelly fine sandy loam; weak fine granular structure; friable; common very fine roots and few medium roots and common fine roots and few coarse roots; 10 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 30 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; extremely acid, pH 4.2, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04990

Bhs1--29 to 36 centimeters (11.4 to 14.2 inches); very gravelly sandy loam; weak fine subangular blocky structure; very firm by iron; few medium roots and common fine roots and few coarse roots; 10 percent coarse prominent 5YR 4/6) iron-manganese masses; 15 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 40 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 4.6, pH indicator solutions; gradual wavy boundary. Lab sample # 16N04991. 80% cemented

Bhs2--36 to 76 centimeters (14.2 to 29.9 inches); very gravelly fine sandy loam; weak fine granular structure; very firm by iron; few medium roots and few fine roots; 10 percent coarse distinct 7.5YR 4/6) iron-manganese masses and 10 percent coarse distinct 7.5YR 5/3) iron depletions; 15 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 40 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 5.0, pH indicator solutions; clear wavy boundary. Lab sample # 16N04992. 80% cemented

C--76 to 100 centimeters (29.9 to 39.4 inches); dark yellowish brown (10YR 4/4) very gravelly coarse sand; single grain; loose; 20 percent medium prominent 10YR 5/8) masses of oxidized iron; 15 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 40 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions. Lab sample # 16N04993. thin band of vfs at top of horizon

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: Jun 22 2016
Describer: Roger DeKett
NEON Plot ID: BART_004
Site ID: S2016NH003013

Pedon ID: S2016NH003013

Site Note:

Pedon Note: average rock frag 31% in pscs

Lab Source ID: KSSL

Lab Pedon #: 16N1112

Soil Name as Described/Sampled: Marlow

Classification: Coarse-loamy, isotic, frigid Oxyaquic Haplorthods

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind: series

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: microslope on backslope of mountainflank of mountain

microslope on backslope of mountainflank of mountains

Upslope Shape: convex

Cross Slope Shape: linear

Particle Size Control Section: 42 to 77 cm.

Description origin: Pedon PC 6.2

Diagnostic Features: folistic epipedon 0 to 17 cm.
albic horizon 17 to 20 cm.
spodic horizon 20 to 77 cm.

Country: United States

State: New Hampshire

County: Carroll

MLRA: 143 -- Northeastern Mountains

Soil Survey Area: NH605 -- White Mountain National Forest, New Hampshire and Maine 12-STJ -- Saint Johnsbury, Vermont

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0415583

Std Longitude: -71.2871583

Latitude: 44 degrees 2 minutes 29.61 seconds north

Longitude: 71 degrees 17 minutes 13.77 seconds west

Datum: WGS84

UTM Zone: 19

UTM Easting: 316756 meters

UTM Northing: 4879032 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Intermixed conifers and hardwoods

Existing Vegetation: eastern hemlock, red spruce, sugar maple, yellow birch

Parent Material: lodgment till

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Cont. Site ID: S2016NH003013

Pedon ID: S2016NH003013

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
25.0	534.0	295						well		

Oa--0 to 17 centimeters (0.0 to 6.7 inches); highly decomposed plant material; massive; friable; many very fine roots and few very coarse roots and many medium roots and many fine roots and many coarse roots; very strongly acid, pH 4.8, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04994

E--17 to 20 centimeters (6.7 to 7.9 inches); gray (7.5YR 5/1) gravelly loamy fine sand; weak fine subangular blocky structure; friable; common very fine roots and many medium roots and many fine roots and few coarse roots; 5 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 15 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 4.9, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04995

Bhs1--20 to 25 centimeters (7.9 to 9.8 inches); reddish black (2.5YR 2.5/1) gravelly fine sandy loam; weak medium subangular blocky structure; firm by iron; many very fine roots and many medium roots and many fine roots and many coarse roots; 5 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 25 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions; clear irregular boundary. Lab sample # 16N04996. 30% cemented

Bhs2--25 to 77 centimeters (9.8 to 30.3 inches); dark reddish brown (5YR 3/3) gravelly fine sandy loam; weak fine subangular blocky structure; friable; common very fine roots and common medium roots and common fine roots; 2 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments and 5 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 25 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N04997

Cd--77 to 100 centimeters (30.3 to 39.4 inches); dark yellowish brown (10YR 4/4) gravelly sandy loam; firm; few fine roots between peds; 20 percent coarse distinct 7.5YR 4/6 iron-manganese masses; 5 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 25 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; strongly acid, pH 5.4, pH indicator solutions. Lab sample # 16N04998

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: Jun 23 2016
Describer: Jessica Philippe
NEON Plot ID: BART_013
Site ID: S2016NH003014

Country: United States
State: New Hampshire
County: Carroll
MLRA: 143 -- Northeastern Mountains
Soil Survey Area: NH605 -- White Mountain National Forest, New Hampshire and Maine 12-STJ -- Saint Johnsbury, Vermont

Pedon ID: S2016NH003014

Site Note:

Pedon Note:

Lab Source ID: KSSL

Lab Pedon #: 16N1113

Soil Name as Described/Sampled: Marlow

Classification: Coarse-loamy, isotic, frigid Oxyaquic Haplorthods

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind: series

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: microslopes on backslopes of mountainflank of mountain

microslopes on backslopes of mountainflank of mountains

Upslope Shape: convex

Cross Slope Shape: convex

Particle Size Control Section: 48 to 70 cm.

Description origin: Pedon PC 6.2

Diagnostic Features: folistic epipedon 0 to 23 cm.
 albic horizon 23 to 35 cm.
 spodic horizon 35 to 70 cm.
 densic contact 70 to cm.

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0419028

Std Longitude: -71.2778639

Latitude: 44 degrees 2 minutes 30.85 seconds north

Longitude: 71 degrees 16 minutes 40.31 seconds west

Datum: WGS84

UTM Zone: 19

UTM Easting: 317502 meters

UTM Northing: 4879050 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Hardwoods

Existing Vegetation: American beech, hobblebush, sugar maple

Parent Material: lodgment till

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Top Depth (cm)	Bottom Depth (cm)	Restriction Kind	Restriction Hardness
70		densic material	Noncemented

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
35.0	447.0	90						well		

Oa--0 to 23 centimeters (0.0 to 9.1 inches); black (10YR 2/1) highly decomposed plant material; massive; friable; common very fine roots and few very coarse roots and few medium roots and common fine roots and few coarse roots; extremely acid, pH 4.0, pH indicator solutions; clear wavy boundary. Lab sample # 16N04999. significant tree throw evident in Oa

E--23 to 35 centimeters (9.1 to 13.8 inches); brown (7.5YR 4/2) very fine sandy loam; weak fine subangular blocky structure; friable; few very fine roots and few medium roots and few fine roots; 2 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 4 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 4.8, pH indicator solutions; clear irregular boundary. Lab sample # 16N05000. pocket of B material just above E horizon

Bhs--35 to 40 centimeters (13.8 to 15.7 inches); dark reddish brown (5YR 2.5/2) very fine sandy loam; weak medium angular blocky structure; friable; few very fine roots and few fine roots; 4 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 5.0, pH indicator solutions; clear irregular boundary. Lab sample # 16N05001

Bs--40 to 70 centimeters (15.7 to 27.6 inches); dark brown (7.5YR 3/4) very fine sandy loam; weak medium subangular blocky structure; friable; few very fine roots and few fine roots; 2 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments and 5 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments and 6 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 5.0, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N05002

Cd--70 to 100 centimeters (27.6 to 39.4 inches); olive brown (2.5Y 4/4) cobbly very fine sandy loam; weak thick platy structure; firm; few very fine roots between peds; 10 percent medium prominent 10YR 5/8) masses of oxidized iron; 2 percent nonflat subangular indurated 250 to 600-millimeter Igneous rock fragments and 9 percent nonflat subangular indurated 2 to 75-millimeter Igneous rock fragments and 10 percent nonflat subangular indurated 75 to 250-millimeter Igneous rock fragments; strongly acid, pH 5.2, pH indicator solutions. Lab sample # 16N05003

PEDON DESCRIPTION -- NEON Site BART

Print Date: Oct 11 2017
Description Date: Jun 24 2016
Describer: Roger DeKett
NEON Plot ID: BART_011
Site ID: S2016NH003015

Country: United States
State: New Hampshire
County: Carroll
MLRA: 143 -- Northeastern Mountains
Soil Survey Area: NH605 -- White Mountain National Forest, New Hampshire and Maine 12-STJ -- Saint Johnsbury, Vermont

Pedon ID: S2016NH003015

Site Note:

Pedon Note: 2Cd not sampled because it is below 100cm.; average rock frag 40% in pscs

Lab Source ID: KSSL

Lab Pedon #: 16N1114

Soil Name as Described/Sampled: Series Not Determined

Classification:

Soil Name as Correlated:

Classification:

Pedon Type: undefined observation

Pedon Purpose: research site

Taxon Kind:

Associated Soils:

Physiographic Division: Appalachian Highlands

Physiographic Province: New England Province

Physiographic Section: White Mountain section

State Physiographic Area:

Local Physiographic Area:

Geomorphic Setting: microslopes on backslope of mountainflank of mountain

microslopes on backslope of mountainflank of mountains

Upslope Shape: convex

Cross Slope Shape: convex

Particle Size Control Section: 34 to 100 cm.

Description origin: Pedon PC 6.2

Diagnostic Features: ochric epipedon 0 to 15 cm.
 albic horizon 9 to 15 cm.
 spodic horizon 15 to 24 cm.
 densic contact 100 to cm.

Map Unit:

Pit Location:

Quad Name: Bartlett, New Hampshire

Std Latitude: 44.0499167

Std Longitude: -71.2964500

Latitude: 44 degrees 2 minutes 59.70 seconds north

Longitude: 71 degrees 17 minutes 47.22 seconds west

Datum: WGS84

UTM Zone: 19

UTM Easting: 316037 meters

UTM Northing: 4879981 meters

Primary Earth Cover: Tree cover

Secondary Earth Cover: Intermixed conifers and hardwoods

Existing Vegetation: American beech, eastern hemlock, sugar maple, yellow birch

Parent Material: ablation till over lodgment till

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Bedrock Fracture Interval:

Surface Fragments:

Description database: KSSL

Top Depth (cm)	Bottom Depth (cm)	Restriction Kind	Restriction Hardness
100		densic material	Noncemented

Cont. Site ID: S2016NH003015

Pedon ID: S2016NH003015

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
40.0	388.0	330						moderately well		

Oa--0 to 9 centimeters (0.0 to 3.5 inches); reddish black (2.5YR 2.5/1) highly decomposed plant material; massive; friable; many very fine roots and few very coarse roots and many medium roots and many fine roots and common coarse roots; extremely acid, pH 4.0, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N05004

E--9 to 15 centimeters (3.5 to 5.9 inches); gray (7.5YR 6/1) fine sandy loam; weak fine subangular blocky structure; friable; common very fine roots and few medium roots and common fine roots; 13 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; extremely acid, pH 4.2, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N05005

Bhs--15 to 24 centimeters (5.9 to 9.4 inches); very dusky red (2.5YR 2.5/2) fine sandy loam; weak fine granular structure; friable; moderately smeary; common very fine roots and common medium roots and common fine roots and few coarse roots; 13 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; extremely acid, pH 4.0, pH indicator solutions; abrupt wavy boundary. Lab sample # 16N05006

Bs--24 to 55 centimeters (9.4 to 21.7 inches); dark yellowish brown (10YR 3/4) gravelly fine sandy loam; weak fine granular structure; friable; common medium roots and common fine roots; 5 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 25 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 5.0, pH indicator solutions; gradual wavy boundary. Lab sample # 16N05007

BC--55 to 100 centimeters (21.7 to 39.4 inches); dark yellowish brown (10YR 4/4) very gravelly fine sandy loam; weak thin platy structure; friable; few medium roots and common fine roots; 10 percent medium prominent 5Y 5/1 iron depletions and 10 percent medium distinct 10YR 4/6 iron-manganese masses; 15 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 30 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 5.0, pH indicator solutions; abrupt smooth boundary. Lab sample # 16N05008

2Cd--100 to 125 centimeters (39.4 to 49.2 inches); olive gray (5Y 5/2) gravelly fine sandy loam; weak thin platy structure; firm; 10 percent medium prominent 10YR 4/6 iron-manganese masses; 5 percent nonflat subrounded indurated 75 to 250-millimeter Igneous rock fragments and 15 percent nonflat subrounded indurated 2 to 75-millimeter Igneous rock fragments; very strongly acid, pH 4.8, pH indicator solutions. includes bands of organic matter that are very smeary