

Western North Carolina Watersheds Draining to Critical Habitat, August 2019 - NC Department of Transportation

Geodatabase Feature Class



Tags U.S. Army Corps of Engineers, Nationwide Permit, US Fish and Wildlife Service, Critical Habitat, Protected Species, Watershed, Streams, Biota, Boundaries, Inland Waters, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

This dataset was originally created in January 2019 as part of the Project ATLAS initiative at NCDOT to support the Sweeping Environmental Group with project delivery in the development phase.

This dataset is intended to satisfy the requirements of Nationwide Permitting conditions; specifically, Section 2.1 of the Final Regional Conditions for Nationwide Permits: Waters Requiring Additional Notification. For proposed activities within waters of the US that require a Pre-Construction Notification (PCN) form and are located in the following sixteen counties, permittees must provide a copy of the PCN to the U.S. Fish and Wildlife Service (USFWS): Avery, Cherokee, Forsyth, Graham, Haywood, Henderson, Jackson, Macon, Mecklenburg, Mitchell, Stokes, Surry, Swain, Transylvania, Union and Yancey.

Description

This dataset is a statewide polygon layer depicting US Geological Survey (USGS) HUC10 watershed basins that intersect Western NC Counties and drain (directly or eventually) into aquatic designated Critical Habitats.

Counties with tributaries that drain to designated critical habitat that require notification to the Asheville U.S. Fish and Wildlife Service: Avery, Cherokee, Forsyth, Graham, Haywood, Henderson, Jackson, Macon, Mecklenburg, Mitchell, Stokes, Surry, Swain, Transylvania, Union and Yancey

Datasets developed under Project ATLAS do not replace any Sweeping Environmental field work for future projects and may not be used as a replacement for site visits / field surveys by licensed professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

Credits

The ATLAS Sweeping Environmental Group within NCDOT was tasked to create this dataset.

Annual maintenance of this dataset is handled by the Sweeping Environmental Group. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDOT's Transportation GIS Unit.

Use limitations

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

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Extent

West -84.422111

East -75.416034

North 36.617257

South 33.730557

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:625,000

Topics and Keywords

Themes or categories of the resource Biota, Boundaries, Environment, Inland Waters, Location, Transportation

Content type Downloadable Data

Export to FGDC CSDGM XML format as Resource Description No

Theme keywords U.S. Army Corps of Engineers, Nationwide Permit, US Fish and Wildlife Service, Critical Habitat, Protected Species, Watershed, Streams, Biota, Boundaries, Inland Waters, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

Thesaurus

Title User

Publication date 2019-08-28 00:00:00

Creation date 2019-01-01 00:00:00

Place keywords North Carolina

Thesaurus

Title User

Publication date 2019-08-28 00:00:00

Creation date 2019-01-01 00:00:00

Citation

Title Western North Carolina Watersheds Draining to Critical Habitat, August 2019 - NC Department of Transportation

Creation date 2019-01-01 00:00:00

Publication date 2019-08-28 00:00:00

Presentation formats digital map

FGDC geospatial presentation format vector digital data

Citation Contacts

Responsible party - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

Country US

e-mail address ATLAS@ncdot.gov

Hours of service

9:00am – 5:00pm Monday - Friday

Contact instructions

Please send an email with any issues, questions or comments regarding the ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Responsible party - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

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Voice 919-707-6136

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Responsible party - resource provider

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

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Resource Details

Dataset languages English (UNITED STATES)

Dataset character set utf8 - 8 bit UCS Transfer Format

Status completed

Spatial representation type vector

Processing environment Version 6.2 (Build 9200) ; Esri ArcGIS 10.5.1.7333

Credits

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Extents

Extent

Description

Data collection is complete.

Geographic extent

Bounding rectangle

Extent type Extent used for searching

West longitude -84.422111

East longitude -75.416034

North latitude 36.617257

South latitude 33.730557

Extent contains the resource Yes

Temporal extent

Beginning date 2019-01-01 00:00:00

Ending date 2019-01-01 00:00:00

Extent in the item's coordinate system

westBL 317079.990816

eastBL 1681260.561345

southBL 285060.497140

northBL 951442.515387

exTypeCode Yes

Resource Points of Contact

Point of contact - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

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Resource Maintenance

Resource maintenance

Update frequency annually

Scope of the updates dataset

Other maintenance requirements

Annual maintenance of this dataset is handled by the Sweeping Environmental Group. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

Maintenance contact - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

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Resource Constraints

Constraints

Limitations of use

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Legal constraints

Limitations of use

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accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

Security constraints

Classification unclassified

Classification system None

Limitations of use

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Spatial Reference

ArcGIS coordinate system

Type Projected

Geographic coordinate reference GCS_North_American_1983

Projection NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet

Coordinate reference details

ProjectedCoordinateSystem

WKID 102719

XOrigin -121841900

YOrigin -93659000

XYScale 36365718.124241434

ZOrigin -1000000

ZScale 10000

MOrigin -100000

MScale 10000

XYTolerance 0.0032808333333333331

ZTolerance 0.001

MTolerance 0.001

HighPrecision true

LatestWKID 2264

WKT

```
PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_1983",DATUM["79.0"],PARAMETER["Standard Parallel 1",34.33333333333334],PARAMETER["Standard Parallel 2",36.16666666666667]]
```

Reference system identifier

Value 2264

Codespace EPSG

Version 6.12(9.0.0)

Spatial Data Properties

Vector

Level of topology for this dataset geometry only

Geometric objects

Feature class name WNCDrainintoCriticalHabitat

Object type composite

Object count 29

ArcGIS Feature Class Properties

Feature class name WNCDrainintoCriticalHabitat

Feature type Simple

Geometry type Polygon

Has topology FALSE

Feature count 29

Spatial index TRUE

Linear referencing FALSE

Data Quality

Scope of quality information

Resource level dataset

Data quality report - Conceptual consistency

Data quality measure reference

Measure description

The dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. The geometry is checked, and if needed repaired.

Conformance test results

Test passed Yes

Result explanation

Pass

Product specification

Title NCDOT Geospatial Data Specifications

Publication date 2019-08-28 00:00:00

Creation date 2019-01-01 00:00:00

Data quality report - Completeness omission

Data quality measure reference

Measure description

After processing, the dataset is checked for drawing display and number of records and file sizes compared with source materials.

Conformance test results

Test passed Yes

Result explanation

Pass

Product specification

Title NCDOT Geospatial Data Specifications
Publication date 2019-08-28 00:00:00
Creation date 2019-01-01 00:00:00

Data quality report - Quantitative attribute accuracy

Data quality measure reference

Measure description

Geometry checks were conducted using ESRI's Data Reviewer tool.

Conformance test results

Test passed Yes

Result explanation

Pass

Product specification

Title NCDOT Geospatial Data Specifications
Creation date 2019-01-01 00:00:00
Publication date 2019-08-28 00:00:00

Lineage

Lineage statement

This dataset is composed of US Geological Survey (USGS) HUC10 watershed basins that intersect the Western NC Counties and drain (directly or eventually) into aquatic designated Critical Habitats as provided by the US Fish and Wildlife Service (USFWS) via shapefile download in November 2018.

The USFWS Information for Planning and Consultation (IPaC) system was utilized to verify specific species information as well as Final and Proposed Critical Habitat. USGS 7.5-minute seamless topographic quadrangles provided by ESRI (online) were utilized to identify continuity or separation of water resources with USFWS Designated Critical Habitat outside of North Carolina.

Process step

Description

Data was reviewed in ESRI's Data Reviewer tool to verify geometry.

Process contact - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group
Contact's position Environmental Program Consultant
Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

Country US

e-mail address ATLAS@ncdot.gov

Hours of service

9:00am – 5:00pm Monday - Friday

Contact instructions

Please send an email with any issues, questions or comments regarding the ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

Process step

Description

Geodatabase was forwarded on to the GIS Unit for publishing as part of data for project ATLAS.

Process contact - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

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Process step

Description

NC counties that drain into Aquatic Designated Critical Habitats shapefile was downloaded from USFWS in November 2018.

HUC10 basins was downloaded from USGS.

The two shapefiles were intersected to get the resultant shapefile.

Process contact - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6116

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

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Country US

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Process step

Description

Verification of data was done in two steps:

USFWS IPAC system verified specific species information as well as Final and Proposed Critical Habitat.

USGS 7.5-minute seamless topo quads provided by ESRI were used to identify continuity or separation of water resources with USFWS Designated Critical Habitat outside of North Carolina.

Process contact - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6116

Address

Type physical

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Distribution

Distributor

Contact information - distributor

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

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Country US

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Distribution format

Name File Geodatabase Feature Class

Version 10.5

Fields

Details for object WNCDrainToCriticalHabitat

Type Feature Class

Row count 29

Definition

These polygons represent the locations within North Carolina where streams flow into critical habitats.

Definition source

NCDOT

Field OBJECTID

Alias OBJECTID

Data type OID

Width 4

Precision 0

Scale 0

Field description

Internal feature number.

Description source

Esri

Description of values

Sequential unique whole numbers that are automatically generated.

Field Shape

Alias Shape

Data type Geometry

Width 0

Precision 0

Scale 0

Field description

Feature geometry.

Description source

Esri

Description of values

Coordinates defining the features.

Field AreaAcres

Alias AreaAcres

Data type Double

Width 8

Precision 0

Scale 0

Field description

Area of HUC10 watershed in acres

Description source

NCDOT

Field AreaSqKm

Alias AreaSqKm

Data type Double

Width 8

Precision 0

Scale 0

Field description

Area of HUC10 watershed in Sq Km

Description source

NCDOT

Field States

Alias States

Data type String

Width 50

Precision 0

Scale 0

Field description

States that are touched by the HUC10 watersheds

Description source

NCDOT

Field HUC10

Alias HUC10

Data type String

Width 10

Precision 0

Scale 0

Field description

USGS HUC10 designation

Description source

NCDOT

Field Name

Alias Name

Data type String

Width 120

Precision 0

Scale 0

Field description

USGS HUC10 name (generally primary waterbody within watershed)

Description source

NCDOT

Field HSSDName

Alias HSSDName

Data type String

Width 7

Precision 0

Scale 0

Field description

Headwater Streams Spatial Data name abbreviation for HUC10

Description source

NCDOT

Field HSSDHUC10

Alias HSSDHUC10

Data type String

Width 254

Precision 0

Scale 0

Field description

Headwater Streams Spatial Data name abbreviation for HUC10

Description source

NCDOT

Field ECRL4Prio

Alias ECRL4Priority

Data type Double

Width 8

Precision 0

Scale 0

Field description

Early Ecoregion Level 4 priority ranking

Description source

NCDOT

Field ECRL4Pr1

Alias ECRL4Priority1

Data type Double

Width 8

Precision 0

Scale 0

Field description

Amended Ecoregion Level 4 priority ranking

Description source

NCDOT

Field HUC08

Alias HUC08

Data type String

Width 8

Precision 0

Scale 0

Field description

HUC08-level watershed containing HUC10-level watershed

Description source

NCDOT

Field Pri180731

Alias Priority180731

Data type SmallInteger

Width 2

Precision 0

Scale 0

Field description

Latest Ecoregion Level 4 priority ranking

Description source

NCDOT

Field Shape_Length

Alias Shape_Length

Data type Double

Width 8

Precision 0

Scale 0

Field description

Perimeter of HUC10 watershed in feet

Description source

Esri

Description of values

Positive real numbers that are automatically generated.

Field Shape_Area

Alias Shape_Area

Data type Double

Width 8

Precision 0

Scale 0

Field description

Area of HUC10 watershed in square feet

Description source

Esri

Description of values

Positive real numbers that are automatically generated.

Metadata Details

Metadata language English (UNITED STATES)

Metadata character set utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata dataset

Scope name dataset

Last update 2019-08-26

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata ISO19139

Metadata style ISO 19139 Metadata Implementation Specification

Created in ArcGIS for the item 2026-08-26 13:34:11

Last modified in ArcGIS for the item 2019-08-26 10:48:39

Automatic updates

Have been performed Yes

Last update 2019-08-26 10:48:39

Metadata Contacts

Metadata contact - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

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Metadata Maintenance

Maintenance

Update frequency as needed

Other maintenance requirements

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Maintenance contact - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group

Contact's position Environmental Program Consultant

Contact information

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Metadata Constraints

Constraints

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Security constraints

Classification unclassified

Classification system None

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Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file