Harperella - Potential Habitat, January 2022 - NC Department of Transportation

File Geodatabase Feature Class

Tags

Harperella, Ptilimnium nodosum, Ptil_nodo, Vascular Plant, Terrestrial, endangered, GIS-based model, expert model, Transportation, NRTR, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

This dataset was originally created in September 2021 as part of the Project ATLAS initiative at NCDOT to support the Environmental Analysis Unit (EAU) Mitigation and Modeling Unit with project delivery in the development phase.

Model output is binary, and includes the identified USFWS species range as listed on ECOS IPAC consultation page. The species model range is split between "High" and "Low" potential habitat. "High potential habitat" represents a GIS based layer of areas deemed suitable habitat, and "Low potential habitat" representing stream lines identified as areas deemed low quality or non-habitat This model identifies all year-round potential suitable habitat for the species.

The Optimal survey window for Harperella is July - mid September.

This dataset supports the production of the Natural Resources Technical Report (NRTR). This dataset also contains information that may assist biologists in preparing background information for field surveys, in order to address protected species for Threatened & Endangered Species Survey Reports, and/or Biological Assessments.

Description

The Harperella Potential Habitat dataset is a polyline layer depicting high and low potential habitat locations for Harperella in NC counties that have a USFWS "current" status listing.

Harperella*, (Ptilimnium nodosum or Harperella nodosa)* found in North Carolina's eastern Piedmont and western Coastal Plain, comprises occurrences that occupy both riverine and ponded habitats. In the riverine habitat, this annual herb occurs in the Rocky Bar and Shore natural community, and grows on rocky, sandy, or gravelly shoals and margins of clear, swift flowing reaches of seasonally flooded streams. It can also be in such fluvial habitats as crevices of exposed bedrock and, rarely, along sheltered muddy stream banks. The species, which can tolerate a lot of shade, is typically found in riverine microsites, such as the downstream side of large rocks or amidst thick clones of water willow *(Justicia americana*), that are sheltered from the erosive effects of swift water. In harperella's ponded habitat, the species is found in the Coastal Plain along the edges of intermittent pineland ponds, damp meadows, and soggy ground around springs. These areas tend to be seasonally flooded and contain soils of a peat muck overlying sand or sandy silt. An occurrence in Georgia's Coastal Plain also occurs on a granite outcrop that is unrelated to its ponded habitat. In riverine and pond environments, the plant is restricted to a very narrow, intermediate range of mean water depths and moderate, periodic flooding. It is entirely absent from both the shallowest and driest as well as deep waters.

Given the 3 distinctly different habitat types described above, as well as some morphological differences, this species is sometimes split into 3 species. The type or form found in NC, which inhabits rocky or gravelly rivers and streams, has been referred to as *Ptilimnium vivipara or Harperella vivipara.*

There are currently 6 element occurrences (EOs) in NC:

-Granville County: 4 locations, all current, found in the Tar River on gravel and sandy bars in the main channel and in sand accumulated around larger rocks.

-Chatham and Lee Counties: 2 locations in the Deep River, which forms the county boundary. The western location is current; the eastern was last observed in 1971.

Habitat for the current population is a large island of gravel and coarse sand accumulated around boulders (NC Natural Heritage Program

County Information-

• NHP listed counties: Chatham, Granville, and Lee

• FWS listed counties: Chatham, Granville, and Lee

• Additions proposed by reviewers: N/A

For more information please click here

https://xfer.services.ncdot.gov/gisdot/Metadata/Atlas/TechDocs/

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Credits

The Environmental Analysis Unit (EAU) Mitigation and Modeling Unit within NCDOT was tasked to create this dataset. This dataset supports the production of the Natural Resources Technical Report (NRTR). Annual maintenance of this dataset is handled by the EAU.

Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT'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	-79.562621	**East**	-78.465152
North	36.542506	**South**	35.306095

Scale Range

Maximum (zoomed in)	1:5,000
Minimum (zoomed out)	1:625,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE biota, geoscientificInformation, location, transportation, environment

* CONTENT TYPE Downloadable Data
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS North Carolina

THESAURUS ►
TITLE User
CREATION DATE 2021-09-30 00:00:00
PUBLICATION DATE 2022-01-28 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Harperella, Ptilimnium nodosum, Ptil_nodo, Vascular Plant, Terrestrial, endangered, GIS-based model , expert model, Transportation, NRTR, NCDOT, Environment, Location, North Carolina, ATLAS

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Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ►

TITLE Harperella - Potential Habitat, January 2022 - NC Department of Transportation
CREATION DATE 2021-09-30 00:00:00
PUBLICATION DATE 2022-01-28 00:00:00

PRESENTATION FORMATS digital map
FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

Hide Citation ▲

Citation Contacts ►

RESPONSIBLE PARTY
ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

CONTACT INFORMATION ►
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VOICE 919-707-6136

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ADMINISTRATIVE AREA NC
POSTAL CODE 27610
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.

Hide Contact information ▲

RESPONSIBLE PARTY
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CONTACT'S ROLE resource provider

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Hide Contact information ▲

Hide Citation Contacts ▲

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 10.8.1.14362

CREDITS

The Environmental Analysis Unit (EAU) Mitigation and Modeling Unit within NCDOT was tasked to create this dataset. This dataset supports the production of the Natural Resources Technical Report (NRTR). Annual maintenance of this dataset is handled by the EAU.

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

Hide Resource Details ▲

Extents ►

EXTENT
DESCRIPTION

Data collection is complete.

GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
WEST LONGITUDE -84.422111
EAST LONGITUDE -75.416034
SOUTH LATITUDE 33.730557
NORTH LATITUDE 36.617257
EXTENT CONTAINS THE RESOURCE Yes

TEMPORAL EXTENT
BEGINNING DATE 2022-01-28 00:00:00
ENDING DATE 2022-01-28 00:00:00

EXTENT
GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
* WEST LONGITUDE -79.562621
* EAST LONGITUDE -78.465152
* NORTH LATITUDE 36.542506
* SOUTH LATITUDE 35.306095
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE 1834694.471120
* EAST LONGITUDE 2157145.116571
* SOUTH LATITUDE 566791.104799
* NORTH LATITUDE 1016407.042508

* EXTENT CONTAINS THE RESOURCE Yes

Hide Extents ▲

Resource Points of Contact ►

POINT OF CONTACT
ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

CONTACT INFORMATION ►
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Hide Contact information ▲

Hide Resource Points of Contact ▲

Resource Maintenance ►

RESOURCE MAINTENANCE
UPDATE FREQUENCY as needed

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS
Maintenance of this dataset is handled by the Environmental Analysis Unit (EAU) Mitigation and Modeling Unit. Currently updating this dataset has not been planned. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

MAINTENANCE CONTACT
ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

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Hide Contact information ▲

Hide Resource Maintenance ▲

Resource Constraints ►

LEGAL CONSTRAINTS
LIMITATIONS OF USE
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SECURITY CONSTRAINTS
CLASSIFICATION unclassified
CLASSIFICATION SYSTEM None

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Hide Resource Constraints ▲

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
PROJECTED COORDINATE SYSTEM
WELL-KNOWN IDENTIFIER 102719
X ORIGIN -121841900
Y ORIGIN -93659000
XY SCALE 3048.0060960121918
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.0032808333333333331
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 2264
WELL-KNOWN TEXT
PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.017453292519943]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER["False_Easting",2000000.002616666],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-79.0],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666666],PARAMETER["Latitude_Of_Origin",33.75],UNIT["Foot_US",0.3048006096012192],AUTHORITY["EPSG",2264]]

REFERENCE SYSTEM IDENTIFIER
VALUE 2264
* CODESPACE EPSG
* VERSION 6.12(9.0.0)

Hide Spatial Reference ▲

Spatial Data Properties ►

VECTOR ►
* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS
FEATURE CLASS NAME HarperellaPotentialHabitat__
* OBJECT TYPE composite
* OBJECT COUNT 2817

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►
FEATURE CLASS NAME HarperellaPotentialHabitat__
* FEATURE TYPE Simple
* GEOMETRY TYPE Polyline
* HAS TOPOLOGY FALSE
* FEATURE COUNT 2817
* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Data Quality ►

SCOPE OF QUALITY INFORMATION ►
RESOURCE LEVEL dataset

Hide Scope of quality information ▲

DATA QUALITY REPORT - COMPLETENESS OMISSION ►
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
CREATION DATE 2020-04-01 00:00:00
PUBLICATION DATE 2021-05-17 00:00:00

Hide Product specification ▲

Hide Data quality report - Completeness omission ▲

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ►
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
CREATION DATE 2020-04-01 00:00:00
PUBLICATION DATE 2021-05-17 00:00:00

Hide Product specification ▲

Hide Data quality report - Conceptual consistency ▲

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►

MEASURE DESCRIPTION

• AGOL Review
- A model prediction file was shared with select reviewers on ArGIS Online (AGOL). Points were placed within the USFWS potential habitat as well as the model potential habitat in order to solicit feedback. Reviewers could place additional comments for consideration by modeler.
- AGOL review was completed in November 2018 on a draft version of this model
- A field review was completed in November 2020 on the draft model

• Independent Data Review
- Describe data sources – NHP element occurrences
- Describe methods – NHP element occurrences were compared to Model output to determine if predicted habitat intersected known habitat.
- NHP element occurrences intersected predicted habitat.
- The model was independently reviewed using NCNHP EO data and field survey results from recent natural resource investigations for NCDOT projects.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ►

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2020-04-01 00:00:00

PUBLICATION DATE 2021-05-17 00:00:00

Hide Product specification ▲

Hide Data quality report - Quantitative attribute accuracy ▲

Hide Data Quality ▲

Lineage ►

LINEAGE STATEMENT

ArcGIS Model Builder version 10.7.1 was used to build a model

Input Environmental data layers for model:

Layer 1
• Layer name: County Boundary
• Layer description:
o Select Chatham, Granville, and Lee Counties
• Layer selection justification:
o The 3 counties listed contain the only known occurrences of harperella in the state according to NHP and USFWS data
• "Habitat" versus "Nonhabitat" designations:
o Potential habitat is predicted within the 3 USFWS "current" listed counties.

Layer 2
• Layer name: NHDflowlines.shp
• Layer description:
o NHDPlusV2- National Hydrography Dataset -Version 2, developed by the U.S EPA Office of Water, and U.S. Geological Survey.
o Join EROM_MA0001.dbf table to NHDflowlines.shp
o Select "Q0001C > 5 and V0001C > 0". Q0001C and V0001C are measures of natural flow. Q0001C is measured in cubic feet per second (cfs) and V0001C is a measure of velocity in feet per second. This is considered potential high habitat areas for harperella.
• Layer selection justification:
Since harperella is dependent on swift-moving streams and rivers, a hydrology dataset mapping these waterways and containing attribute data on the general size, permanency and substrate of streams was sought. NHDPlusV2 and specifically the Enhanced Unit Runoff Method (EROM) Flow estimates (\EROMExtension\EROM_MA0001.dbf) were used to select stream natural flows. Q0001C values were used and represent flow with reference gage regression applied to Q0001B (cfs). All streams with values greater than 5 cfs were selected as "habitat". This threshold cut off was established by examining recent field verification data collected across all three counties (n = 35). This layer has replaced the draft version model that was based on National Wetland Inventory mapping and is a better fit due to the finer
detail of data associated with NDHPlus2. Most lakes and ponds have been removed due to negative or very low flow values which reflects the potential non-habitat/low habitat values of these areas.

EO polygon areas both historic and current are within the vicinity of the stream polylines of the final high potential habitat model.

"Habitat" versus "Nonhabitat" designations:
o From the NHDflowlines layer within the three counties, we selected all streams with flow:
• > 5 cfs
• Areas with negative velocity were removed. These represented lakes and ponds.

Known Issues with Model Data Layers
• NHD polylines do not match up perfectly with the current river and stream banks in some areas, partially due to the natural shift of channels over time. However, this is the best data source to represent length of stream since this dataset uses single channel line and not both banks on larger streams.

• The ATLAS hydrology layer(s) will not be utilized at this time. The NHD polyline layer will run better when calculating length in the screening tool.

• Based on where the currently known populations are found in NC, this model likely overpredicts potential habitat by identifying streams. The known occurrences in NC are all in major rivers, but the species has been found in streams in other states so the model includes these habitats as well.

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

PROCESS CONTACT
ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

CONTACT INFORMATION ►
PHONE
VOICE 919-707-6136

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DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27610
COUNTRY US
E-MAIL ADDRESS ATLAS@ncdot.gov

HOURS OF SERVICE
9:00am – 5:00pm Monday - Friday

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Hide Contact information ▲

Hide Process step ▲

PROCESS STEP ►
DESCRIPTION
Data was reviewed in ESRI's Data Reviewer tool to verify geometry.

PROCESS CONTACT
ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

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Hide Process step ▲

PROCESS STEP ►

DESCRIPTION

Summary of model steps: ·

- Select the 3 counties where the species is listed: Chatham, Granville, and Lee, export as Harperella Counties.

- Clip NHDflowlines.shp to Harperella Counties.

- Add “Habitat” field (houses 0 & 1 Values for High Potential Habitat and Low potential habitat)

- Join NHD dbf “EROM_MA0001” to the Harperella_Clipped_Streams FC.Select “Q0001C" >5 AND V0001C > 0”. Calculate output of Select and give it a “1” for Habitat. Exported as “Harperella_Habitat”

- Select “"Q0001C" <5 AND V0001C >-9998” and give a value of “0” for NonHabitat. Calculate output of Select and give it a “0” for NonHabitat or low potential habitat. Exported as Harperella_NonHabitat”. Records with a value of -9998 remove all standing water e.g lakes, reservoirs and ponds.

- Merge Harperella_Habitat and Harperella_NonHabitat. Exported as Harperella_Final.

PROCESS CONTACT

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CONTACT'S POSITION Environmental Program Consultant

CONTACT'S ROLE originator

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Hide Contact information ▲

Hide Process step ▲

Hide Lineage ▲

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION
ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE distributor

CONTACT INFORMATION ►
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VOICE 919-707-6136

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Hide Contact information ▲

Hide Distributor ▲

DISTRIBUTION FORMAT
* NAME File Geodatabase Feature Class
VERSION 10.5

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT HarperellaPotentialHabitat__ ►
* TYPE Feature Class
* ROW COUNT 2817
DEFINITION
Potential Habitat areas for Harperella in NC

DEFINITION SOURCE
NCDOT

FIELD OBJECTID ►
* ALIAS FID
* 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.

Hide Field OBJECTID ▲

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.

Hide Field Shape ▲

FIELD GNISName ►
* ALIAS GNISName
* DATA TYPE String
* WIDTH 65
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
  GNIS (Geographical Names Information System) name of stream

DESCRIPTION SOURCE
  NCDOT

Hide Field GNISName ▲

FIELD PotHabitat ►
ALIAS PotHab
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
  Model Output - 0 or 1 potential habitat

DESCRIPTION SOURCE
  NCDOT

LIST OF VALUES

VALUE 1
DESCRIPTION High potential
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE 0
DESCRIPTION Low potential
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field PotHabitat ▲

FIELD CommonName ►
ALIAS CName
* DATA TYPE String
* WIDTH 200
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Common Name of Species

DESCRIPTION SOURCE
NCDOT

Hide Field CommonName ▲

FIELD Sciname ►
ALIAS SName
* DATA TYPE String
* WIDTH 200
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
Scientific Name of Species

DESCRIPTION SOURCE
NCDOT

Hide Field Sciname ▲

FIELD Shape_Length ►
* ALIAS Shape_Length
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0
* FIELD DESCRIPTION
Length of feature in internal units.

* DESCRIPTION SOURCE
Esri

* DESCRIPTION OF VALUES
Positive real numbers that are automatically generated.

Hide Field Shape_Length ▲

Hide Details for object HarperellaPotentialHabitat__ ▲

Hide Fields ▲

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 2024-01-26

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 2024-02-01 14:11:42
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-26 18:59:45

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2024-01-26 18:59:45

Hide Metadata Details ▲

Metadata Contacts ►

METADATA CONTACT
ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE point of contact

CONTACT INFORMATION ►
PHONE
VOICE 919-707-6136

ADDRESS
DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27610
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.

Hide Contact information ▲

Hide Metadata Contacts ▲

Metadata Maintenance ►

MAINTENANCE
UPDATE FREQUENCY as needed

OTHER MAINTENANCE REQUIREMENTS
Annual maintenance of this dataset is handled by the Environmental Analysis Unit (EAU) Mitigation and Modeling Unit. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

MAINTENANCE CONTACT
ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

CONTACT INFORMATION ►
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Hide Contact information ▲

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Metadata Constraints ►

SECURITY CONSTRAINTS
CLASSIFICATION unclassified
CLASSIFICATION SYSTEM None

LIMITATIONS OF USE
The North Carolina Department of Transportation shall not be held liable for any errors in this metadata. 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. Datasets developed under Project ATLAS do not replace any NRTR work for future projects and may not be used as a replacement for site visits / field surveys by qualified 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.

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