

# TnE Aquatic Survey Location Point, July 2021 Continuous Capture - NC Department of Transportation

File Geodatabase Feature Class



## Tags

Transportation, NCDOT, Environment, Location, North Carolina, ATLAS, NRTR, Natural Resources Technical Report, survey location

## Summary

This dataset was originally created in May 2019 and updated in July 2021 as part of the Project ATLAS initiative at NCDOT to support project delivery in the development phase. This dataset is a continuously updated compilation of survey location points identified during the creation of the NRTR for transportation projects.

## Description

The Threatened and Endangered (TnE) Aquatic Survey Location Point dataset is a point layer in a statewide GIS dataset for survey locations identified during the Natural Resources Technical Report (NRTR) work during project development for NCDOT. This data is gathered per transportation project and compiled into one statewide GIS dataset to be used for future transportation planning and project development. This dataset is continuously updated with new records as Natural Resources Technical Reports are completed per transportation project during environmental analysis and project development.

Datasets developed under Project ATLAS do not replace any Natural Resources Technical Report 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

Various consulting firms, contracted by NCDOT to conduct Natural Resources Technical Reports work for transportation projects, contribute to this dataset. Additional contributors to this dataset are members of the NCDOT Environmental Analysis Unit. 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

There is no extent for this item.

## 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 location, environment, transportation

\* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

PLACE KEYWORDS North Carolina

THESAURUS ▶

TITLE User

PUBLICATION DATE 2021-07-15 00:00:00

CREATION DATE 2021-07-15 00:00:00

*Hide Thesaurus ▲*

THEME KEYWORDS Transportation, NCDOT, Environment, Location, North Carolina, ATLAS, NRTR, Natural Resources Technical Report, survey location

THESAURUS ▶

TITLE User

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*Hide Thesaurus ▲*

*Hide Topics and Keywords ▲*

## Citation ▶

TITLE TnE Aquatic Survey Location Point, July 2021 Continuous Capture - NC Department of Transportation

CREATION DATE 2021-07-15 00:00:00

PUBLICATION DATE 2021-07-15 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 point of contact

CONTACT INFORMATION ▶

PHONE

VOICE 919-707-6136

ADDRESS

TYPE physical  
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 ▲](#)

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

CONTACT INFORMATION ►

PHONE  
VOICE 919-707-6136

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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 on-going  
SPATIAL REPRESENTATION TYPE vector

\* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

CREDITS  
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[Hide Resource Details ▲](#)

## Extents ►

EXTENT  
DESCRIPTION  
Temporal extent is ongoing. Data collection will continue indefinitely.

GEOGRAPHIC EXTENT  
BOUNDING RECTANGLE  
WEST LONGITUDE -84.422111  
EAST LONGITUDE -75.416034  
SOUTH LATITUDE 33.730557  
NORTH LATITUDE 36.617257  
EXTENT CONTAINS THE RESOURCE No

TEMPORAL EXTENT  
BEGINNING DATE 2021-07-15 00:00:00  
ENDING DATE 2021-07-15 00:00:00

[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 ►

PHONE

VOICE 919-707-6136

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

## Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY continual

SCOPE OF THE UPDATES dataset

MAINTENANCE 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 ►

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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

#### LIMITATIONS OF USE

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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 3048.0060960121928

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",0.0174532925199433]],PROJECTION["Lambert\_Conformal\_Conic"],PARAMETER["False\_Easting",2000000.0026166666],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 AquaticSurveyLocation  
\* OBJECT TYPE point  
\* OBJECT COUNT 0

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME AquaticSurveyLocation  
\* FEATURE TYPE Simple  
\* GEOMETRY TYPE Point  
\* HAS TOPOLOGY FALSE  
\* FEATURE COUNT 0  
\* 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 - FORMAL CONSISTENCY ►

MEASURE NAME Data Standards

MEASURE DESCRIPTION

Completeness, consistency, positional and attribute accuracy are solely dependent upon entities contributing to this dataset. The NCDOT ATLAS Workbench application performs quality control checks on data coming into the enterprise database ensuring that schema is consistent. Checks are made for file name, attribute names, attribute types, attribute length/scale/precision, project number of the feature class vs the values in the ProjNumber field, and date.

EVALUATION METHOD

Data submitted to the ATLAS gateway through the Workbench tool must follow standards outlined in the ATLAS Standards Document.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

The ATLAS Workbench has a validation tool that checks every dataset being uploaded to the SDE Database and rejects any that do not follow the ATLAS Standards Document.

PRODUCT SPECIFICATION ▶

TITLE ATLAS Standards Document

PUBLICATION DATE 2021-07-15 00:00:00

CREATION DATE 2021-07-15 00:00:00

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 ▶

PHONE

VOICE 919-707-6136

ADDRESS

TYPE physical

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](mailto:ATLAS@ncdot.gov)

HOURS OF SERVICE

9:00am – 5:00pm Monday - Friday

CONTACT INSTRUCTIONS

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[Hide Contact information ▲](#)

[Hide Product specification ▲](#)

[Hide Data quality report - Formal consistency ▲](#)



[Hide Data Quality ▲](#)

## Lineage ►

### LINEAGE STATEMENT

Records for this dataset are collected and added as Natural Resources Technical Reports and their associated geospatial data are delivered via the NCDOT ATLAS Workbench web application. When a project team, hired to complete a Natural Resources Technical Report for a particular project, uploads their Natural Resources Technical Report geospatial data into the ATLAS Workbench application, that data is QA/QC'd to ensure schema consistency and if schema is correct that data is appended to the survey location point dataset in the ATLAS SDE. That data is then published as a REST service to be used by web mapping applications.

### PROCESS STEP ►

#### DESCRIPTION

Survey location points are collected by various contractors conducting field work as part of Natural Resources Technical Report preparation for transportation projects. Field staff use mapping-grade GPS units to record observations. GPS units should be loaded with the appropriate data dictionary files (.ddf) from NCDOT if they are available for the type of data being collected.

### 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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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

### PROCESS STEP ►

#### DESCRIPTION

Contractors refer to Standards Document and copy out the survey location point template shapefile. The data collected offsite is compiled into this template and zipped up on the contractor's local machine.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit  
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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

The contractor then signs on to the SharePoint Connect site and navigates to the appropriate project and then over to the ATLAS Workbench and the appropriate discipline. In this case it is Threatened & Endangered Species. The data is then uploaded via the Workbench tool by the contractor for validation of the data.

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 Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

QA/QC is conducted on the uploaded data by the ATLAS validation tool, which checks for filename, schema and geometry. If the data passes validation then it is appended to TnE\_SurveyLocationPoint into Edit SDE. The tool writes the URL for the layer to the Edit SDE in the DOC\_URL field. Edit SDE is replicated to Pub SDE. Data is now visible as a web service layer.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

If the data does not pass validation then user receives feedback to upload corrected dataset.

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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PROCESS STEP ▶

DESCRIPTION

The zip shapefile is placed on SharePoint in the ATLAS folder under the appropriate project number and discipline folder.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit  
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[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 ►

PHONE

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 [AquaticSurveyLocation](#) ▶

\* TYPE Feature Class

\* ROW COUNT 0

DEFINITION

NRTR survey location point

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 [ProjNumber](#) ▶

ALIAS ProjectNumber

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

DOT Project Number (TIP etc.)

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Free Text

DESCRIPTION DOT Project Number

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

BEGINNING DATE OF VALUES 2019-02-01

*Hide Field ProjNumber ▲*

FIELD DateCreate ►

ALIAS DateCreated

\* DATA TYPE Date

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Date shapefile was compiled

DESCRIPTION SOURCE

NCDOT

RANGE OF VALUES

MINIMUM VALUE 2019

MAXIMUM VALUE 3000

BEGINNING DATE OF VALUES 2019-02-01

*Hide Field DateCreate ▲*

FIELD ContName ►

ALIAS ContractorName

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Internal Field for name of Contractor that collected and produced the data. This field is automatically populated by an ATLAS script and is for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE

NCDOT

BEGINNING DATE OF VALUES 2019-02-01

*Hide Field ContName ▲*

FIELD RptName ►

ALIAS ReportName

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Report name associated with the shapefile.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Free Text

DESCRIPTION Report name associated with the shapefile.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

BEGINNING DATE OF VALUES 2019-02-01

[Hide Field RptName ▲](#)

FIELD DocURL ►

ALIAS DocumentURL

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Document URL for SharePoint.

Internal Field for Document URL for location on SharePoint. This field is automatically populated by an ATLAS script and is for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE

NCDOT

BEGINNING DATE OF VALUES 2019-02-01

[Hide Field DocURL ▲](#)

FIELD Notes ►

\* ALIAS Notes

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

User notes

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE Free Text

DESCRIPTION User notes

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

BEGINNING DATE OF VALUES 2019-02-01

[Hide Field Notes ▲](#)

FIELD FromDate ►



- \* ALIAS FromDate
- \* DATA TYPE Date
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Internal Field for start of validity of data. This field is automatically populated by an ATLAS script and is for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE

NCDOT

BEGINNING DATE OF VALUES 2019-02-01

[Hide Field FromDate ▲](#)

FIELD ToDate ►

- \* ALIAS ToDate
- \* DATA TYPE Date
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Internal Field for end of validity of data. This field is automatically populated by an ATLAS script and is for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE

NCDOT

BEGINNING DATE OF VALUES 2019-02-01

[Hide Field ToDate ▲](#)

FIELD SPProjID ►

- ALIAS SharePointProjectID
- \* DATA TYPE String
- \* WIDTH 254
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Internal Field for SharePoint Project ID. This field is automatically populated by an ATLAS script and is for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE

NCDOT

BEGINNING DATE OF VALUES 2019-02-01

[Hide Field SPProjID ▲](#)

FIELD ProjURL ►

- \* ALIAS ProjectURL
- \* DATA TYPE String
- \* WIDTH 300
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Internal Field for Sharepoint folder location URL. This field is automatically populated by an ATLAS script and is for internal use only. Any data entered into this field will be overwritten.

DESCRIPTION SOURCE

NCDOT

[Hide Field ProjURL ▲](#)

[Hide Details for object AquaticSurveyLocation ▲](#)

[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 2024-01-30

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE ISO 19139 Metadata Implementation Specification

STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2021-09-08 15:28:58

LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-30 16:27:54

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2024-01-30 16:27:54

[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

TYPE physical

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

MAINTENANCE CONTACT

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

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[Hide Contact information ▲](#)

[Hide Metadata Maintenance ▲](#)

## 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

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#### CONSTRAINTS

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[Hide Metadata Constraints ▲](#)