Express Design Evaluation Preliminary Mapping Limits, April 2025 Continuous Capture - NC Department of Transportation

File Geodatabase Feature Class

Tags

Preliminary Mapping Limits, Express Design Evaluation, Transportation, NCDOT, Environment, Location, Boundaries, North Carolina, ATLAS

Summary

This dataset was originally created in December 2020 and updated in July 2021 and April 2025 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 project mapping limits identified during Express Design Evaluation for transportation projects.

Description

The Express Design Evaluation Preliminary Mapping Limits dataset is a polygon layer in a statewide GIS dataset for project mapping limits identified during Express Design Evaluation for transportation projects for NCDOT. The preliminary mapping limits are based on the express design concept, and are to be used as an aid in the next phase of design by the NCDOT Project Manager, Photogrammetry, and Location & Surveys. The project mapping limits are defined by the type of project:

-Intersections: 25'-50' outside the limits of existing or proposed right of way, whichever is greater; 200' beyond proposed project termini (Mapping Products: 1"=50' final surveys)

-Interchange Projects/Widening Projects: 100'-300' outside the limits of proposed or existing right of way, whichever is greater; 500' beyond proposed project termini (Mapping Products: 1"=50' shell plan sheets)

-New Location Projects: 500' outside the limits of existing or proposed right of way, whichever is greater, for all options; 1000' beyond proposed project termini (Mapping Products: 1"=100' topographic mapping with multiple options, or 1"=50' shell plan sheets with selected corridor)

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 new development projects are completed per transportation project during environmental analysis.

Datasets developed under Project ATLAS do not replace any project development 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 working 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

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Extent

West	-84.232937	**East**	-76.777131
North	36.305884	**South**	34.103930

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   boundaries, location, transportation, environment

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

PLACE KEYWORDS   North Carolina

THESAURUS ▶
TITLE   User
PUBLICATION DATE   2025-04-01   00:00:00
CREATION DATE   2025-04-01   00:00:00

Hide Thesaurus ▲

THEME KEYWORDS   Preliminary Mapping Limits, Express Design Evaluation, Transportation, NCDOT, Environment, Location, Boundaries, North Carolina, ATLAS

THESAURUS ▶
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Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ▶

TITLE   Express Design Evaluation Preliminary Mapping Limits, April 2025 Continuous Capture - NC Department of Transportation
CREATION DATE   2025-04-01   00:00:00

PUBLICATION DATE   2025-04-01   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   resource provider

  CONTACT INFORMATION   ►
    PHONE
      VOICE   919-707-6146

    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   point of contact

  CONTACT INFORMATION   ►
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CONTACT'S ROLE   originator

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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

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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

TEMPORAL EXTENT
  BEGINNING DATE   2025-04-01   00:00:00
  ENDING DATE   2025-04-01   00:00:00

EXTENT
  GEOGRAPHIC EXTENT
    BOUNDING RECTANGLE
      EXTENT TYPE   Extent used for searching
      * WEST LONGITUDE   -84.232937
      * EAST LONGITUDE   -76.777131
      * NORTH LATITUDE   36.305884
      * SOUTH LATITUDE   34.103930
      * EXTENT CONTAINS THE RESOURCE   Yes

  EXTENT IN THE ITEM'S COORDINATE SYSTEM
    * WEST LONGITUDE   456539.753681
    * EAST LONGITUDE   2655139.685541
    * SOUTH LATITUDE   168476.843687
    * NORTH LATITUDE   930254.403790
    * 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 ▲

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   originator

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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   3048.0060960121928
      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",2000000.002616666],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   PrelimMappingLimits
* OBJECT TYPE   composite
* OBJECT COUNT   48

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES   ▶
FEATURE CLASS NAME   PrelimMappingLimits
* FEATURE TYPE   Simple
* GEOMETRY TYPE   Polygon
* HAS TOPOLOGY   FALSE
* FEATURE COUNT   48
* 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   2025-04-01   00:00:00
CREATION DATE   2025-04-01   00:00:00

Lineage ►

LINEAGE STATEMENT
Records for this dataset are collected and added as the Final Environmental Document and their
associated geospatial data are delivered via the NCDOT ATLAS Workbench web application. When a
project team, hired to complete a final Environmental Document for a particular project, uploads their
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 PreliminaryMappingLimits dataset in
the ATLAS SDE. That data is then published as a REST service to be used by web mapping
applications.

PROCESS STEP   ►
DESCRIPTION
PreliminaryMappingLimits are collected by various contractors conducting field work as part of
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   919-707-6146

ADDRESS
TYPE   physical
DELIVERY POINT   Century Center Building B, 1020 Birch Ridge Drive
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Hide Contact information ▲

Hide Process step ▲

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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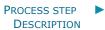E-MAIL ADDRESS   ATLAS@ncdot.gov

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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
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    CONTACT'S ROLE   originator

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      Hide Contact information ▲

  Hide Process step ▲

PROCESS STEP   ▶
  DESCRIPTION
    Contractors refer to Standards Document and copy out the PreliminaryMappingLimits 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
    CONTACT'S POSITION   Environmental Program Consultant

CONTACT'S ROLE   originator

    CONTACT INFORMATION   ▶
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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 Express Design Evaluation. The data is then uploaded via the Workbench tool by the contractor for validation of the data.

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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 PreliminaryMappingLimits 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.

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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 ▶
PHONE
VOICE 919-707-6146

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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 PrelimMappingLimits ▶
* TYPE Feature Class
* ROW COUNT 48
DEFINITION
Preliminary mapping limits for project identified during Express Design Evaluation

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.

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

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

Hide Field RptName ▲

FIELD DocURL ►
* ALIAS   DocumentURL
* DATA TYPE   String
* WIDTH   254
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   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

   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

   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

   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

   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

Hide Field SPProjID ▲

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 ▲

FIELD SHAPE_Area ▶
* ALIAS   Shape_Area
* DATA TYPE   Double
* WIDTH   8
* PRECISION   0
* SCALE   0
* FIELD DESCRIPTION
    Area of feature in internal units squared.

* DESCRIPTION SOURCE
    Esri

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

Hide Field SHAPE_Area ▲

FIELD ProjURL ▶
* ALIAS   ProjectURL
* DATA TYPE   String
* WIDTH   254

* **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 ▲

FIELD GlobalID ▶
* **ALIAS** GlobalID
* **DATA TYPE** GlobalID
* **WIDTH** 38
* **PRECISION** 0
* **SCALE** 0

Hide Field GlobalID ▲

Hide Details for object PrelimMappingLimits ▲

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** 2025-12-08

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 2025-10-30 23:13:40
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2025-12-08 17:20:16

 AUTOMATIC UPDATES
  HAVE BEEN PERFORMED Yes
  LAST UPDATE 2025-12-08 17:20:16

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   919-707-6146

  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
  CONTACT'S ROLE   originator

  CONTACT INFORMATION   ▶
    PHONE
      VOICE   919-707-6146

    ADDRESS
      TYPE   physical
      DELIVERY POINT   Century Center Building B, 1020 Birch Ridge Drive
      CITY   Raleigh
      ADMINISTRATIVE AREA   NC
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    number or indicate as such in the subject line in an email.

      Hide Contact information ▲

Hide Metadata Maintenance ▲

Metadata 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.

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CONSTRAINTS

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Hide Metadata Constraints ▲