

Water Service Areas WSA - May 2023 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Water Service Areas, WSA, Water Provider, Water Service Provider, Water Service Area Boundaries Planning, Public Water Supply Water Sources, NCDEQ – Division of Water Resources (DWR), Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

An assessment of existing data at the outset of project ATLAS identified a need for accurate and current municipal and other providers' water service areas for use in NCDOT – Community Studies' (CS) indirect and cumulative effects analysis.

This water service area dataset is comprised of water service area boundary polygons and is derived from Division of Water Resources's (DWR) existing draft 2019 water service area data. DWR has ultimate interest in and jurisdiction over any water service area data and this dataset developed for ATLAS is exclusively for NCDOT use until a more current and comprehensive dataset, currently funded and in the initial stages, can be completed by DWR.

The development of this water service area (WSA) dataset is related to a similar effort to develop a wastewater service area (WWSA) dataset from existing base data and data obtained through outreach to sewer service providers, which was finalized in September 2021.

Description

The Water Service Area WSA dataset is a statewide polygon layer comprised of water service area boundary polygons and is derived from Division of Water Resources's (DWR) existing draft 2019 water service area data for the state of North Carolina.

This data layer will aid and inform indirect and cumulative effects analysis as a data input into the CS quantitative screening tools, along with values assigned to other factors known to influence land use decisions. These tools are included in Indirect and Cumulative Effects Screening Reports (SICE) and Land Use Scenario Assessments (LUSA) completed for STIP projects as part of the NEPA project development process. These reports assess the potential for change in land use as a result of transportation projects and other public and private actions. Integral to this analysis is determining where water service is available, which when present, increases the potential for denser development and change in land use effects. This analysis aids in eventual project permitting. As is the case for all data layers developed/obtained for direct and indirect and cumulative impact analysis, accuracy is important, however the WSA layer is not supposed to function as a detailed inventory of sewer system assets such as those for disciplines focused on utilities.

Credits

The ATLAS EAU within NCDOT was tasked to create this dataset. 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.

Datasets developed under Project ATLAS 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.

Extent

West -84.132484 **East** -75.419229
North 36.595716 **South** 33.740941

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 farming, boundaries, inlandWaters, 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 2023-04-01 00:00:00
PUBLICATION DATE 2023-05-15 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Water Service Areas, WSA, Water Provider, Water Service Provider, Water Service Area Boundaries Planning, Public Water Supply Water Sources, NCDEQ – Division of Water Resources (DWR), Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

THESAURUS ▶

TITLE User
CREATION DATE 2023-04-01 00:00:00
PUBLICATION DATE 2023-05-15 00:00:00

Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ▶

TITLE Water Service Areas WSA - May 2023 - NC Department of Transportation
CREATION DATE 2023-04-01 00:00:00
PUBLICATION DATE 2023-05-15 00:00:00

PRESENTATION FORMATS digital map

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 919-707-6146

ADDRESS

TYPE

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 ▶

PHONE

VOICE 919-707-6146

ADDRESS

TYPE

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 resource provider

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6146

ADDRESS

TYPE

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 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 ATLAS EAU within NCDOT was tasked to create this dataset.

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 -84.125201

EAST LONGITUDE -75.426058

SOUTH LATITUDE 33.829738

NORTH LATITUDE 36.556356

EXTENT CONTAINS THE RESOURCE Yes

TEMPORAL EXTENT

BEGINNING DATE 2023-04-01 00:00:00

ENDING DATE 2023-04-01 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -84.132484

* EAST LONGITUDE -75.419229

* NORTH LATITUDE 36.595716

* SOUTH LATITUDE 33.740941

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 491682.656492

* EAST LONGITUDE 3051823.369534

* SOUTH LATITUDE 34409.243056

* NORTH LATITUDE 1035781.931908

* 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 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 Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY annually

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

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.

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 ►

PHONE

VOICE 919-707-6146

ADDRESS

TYPE

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 Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

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.

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

LIMITATIONS OF USE

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. Datasets developed under Project ATLAS do not replace any Sweeping Environmental group 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.

CONSTRAINTS

LIMITATIONS OF USE

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.

Datasets developed under Project ATLAS 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.

[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 WaterServiceArea

* OBJECT TYPE composite

* OBJECT COUNT 4611

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME WaterServiceArea

* FEATURE TYPE Simple

* GEOMETRY TYPE Polygon

* HAS TOPOLOGY FALSE

* FEATURE COUNT 4611

* 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 2021-12-15 00:00:00

PUBLICATION DATE 2022-01-28 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 2021-12-15 00:00:00
PUBLICATION DATE 2022-01-28 00:00:00

[Hide Product specification ▲](#)

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

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►

MEASURE DESCRIPTION

'Draft' service area polygons that were developed during the initial phase underwent internal consistency checks and QA/QC procedures prior to 1st draft submittal. The draft water service area layer compiled by RK&K was submitted as part of a geodatabase to NCDOT for review utilizing the data reviewer tool in two (2) rounds; 1st draft submittal and 2nd draft submittal. The draft submittal date was determined by NCDOT in coordination with RK&K.

A 1st draft of the merged layer underwent an internal RK&K QA/QC and was provided to NCDOT GIS Unit, Community Studies and EAU on 4/13/23. The next steps and anticipated estimated dates are as follows:

- GIS Unit internal QA/QC utilizing the data reviewer tool
- RK&K 1st draft revisions, internal QA/QC and 2nd draft submittal – 6/1/2023
- GIS Unit internal QA/QC utilizing the data reviewer tool; 2nd Draft
- Coordination meeting between NCDOT GIS Unit, Community Studies, EAU and RK&K – 6/15/2023
- RK&K 2nd draft revisions, internal QA/QC and 3rd draft submittal 7/15/2023

QC checks of the data involved the following processes:

Esri Data Reviewer was used by ATLAS internal staff to generate an error log of the invalid geometry, holes, gaps, slivers, and overlap. A manual review, and correction if needed, of each error was performed.

The status of each error was tracked in the CORRECTIONSTATUS attribute of the error log, and attributed with the following values:

- Corrected – The error was considered valid, and measures were taken to correct geometry.
- Validated holes – Holes within coverage areas were determined to be valid, representing an absence of wastewater service.
- Validated overlap – These overlapping coverage areas were determined to be valid.

To make this determination the following processes were applied:

A. Hole validation – Each of the sewer service areas updated for the WWSA data layer were vetted manually for geometric integrity. The goal was to determine whether gaps in coverage, or 'holes' within the shape of the service area were legit and reflected an absence of provided services. Gaps were filled in where appropriate.

B. Assessment of overlap legitimacy – In many cases, the service areas provided by adjacent providers contained areas of overlap. The primary causes of the overlap were true overlapping coverage from public and private providers and cases where provider entities have current and future services areas. Remaining overlap should be considered legitimate.

C. Slivers, gaps, and unclear boundaries – Due to sewer service providers supplying service areas independent of one another, there were a considerable number of small gaps, or slight overlaps in coverage.

The following rules and tools were applied to address these errors:

- Boundary priority – Service areas with an attribute Status = Final, were given priority over service areas with Status = Original. The Original data, or data brought forward from the 1997 and 2004 data layers was modified to fit the geometry of the Final service areas.
- Boundary coincidence – In cases where two or more adjacent service areas have Final status, both boundaries had forced coincidence to a best fit boundary.
- Boundary disagreement – In cases where two or more adjacent service areas have Final status, and the overlap between is too great to be able to determine a best fit, the boundaries were left as-is. For these cases, the overlap conflict would need to be resolved by the service providers themselves, which is beyond the scope for the current phase of this WSA dataset.
- Boundary Cleaning Tools – The primary tool used to make adjacent boundaries coincident was the Align Feature editing tool, which allows a best fit line to be traced and then snaps all vertices from polygons within a specific tolerance to this best fit line.

CONFORMANCE TEST RESULTS

TEST PASSED Yes
RESULT EXPLANATION
Pass

PRODUCT SPECIFICATION ►

TITLE NCDOT Geospatial Data Specifications
CREATION DATE 2021-12-15 00:00:00
PUBLICATION DATE 2022-01-28 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Quantitative attribute accuracy ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

The initial step in the development of this dataset entailed RK&K contacting DWR in November 2021 to inquire about existing water service area data and any efforts to regularly update the dataset. A meeting between NCDOT, DWR, and RK&K was held in December 2021 to discuss ATLAS data needs and DWR's existing 2019 water service area data, which was provided as the initial data source. A scope of work was approved in September 2022.

The water service area layer for ATLAS was developed utilizing the existing 2019 draft layer, 'PWS_NC_2019_Duke', that was compiled with a collaboration between NCDENR and Duke University. This layer was considered the most recent and accurate water service area dataset, with the source of the geometry coming from the individual municipality or entity.

PROCESS STEP ►
DESCRIPTION

The steps to improve this dataset were focused on coincidence of geometry, and overall geometric integrity.

Deficiencies in the service area polygon geometry were identified such as holes, slivers, and overlaps. Areas of data overlaps, data gaps and instances of multi-part features were edited manually and through automated GIS tools. Each service area was analyzed to determine where holes or gaps in service area coverage were purposeful and should be kept, or if these anomalies were most likely left over from previous geoprocessing activities and needed to be cleaned.

Once the revisions and data cleaning are complete, the modified or published date is tracked with the EditDate attribute field, which is set to 4/1/2023.

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

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 Process step ▲

PROCESS STEP ►
DESCRIPTION

Data was reviewed in ESRI's Data Reviewer tool to verify geometry. No legitimate errors were found.

PROCESS 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

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 Process step ▲](#)

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 point of contact

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6146

ADDRESS

TYPE

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 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

ADDRESS

TYPE

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 Distributor ▲](#)

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

VERSION 10.5

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [WaterServiceArea](#) ►

* TYPE Feature Class

* ROW COUNT 4611

DEFINITION

Water Service Area boundaries in the state of North Carolina

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 SystmName ►

* ALIAS SystemName

* DATA TYPE String

* WIDTH 254

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Name of the system

DESCRIPTION SOURCE

NCDOT

Hide Field SystmName ▲

FIELD PWSID ►

- * ALIAS PWSID
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Unique Identifier, retained from source data

DESCRIPTION SOURCE

NCDOT

Hide Field PWSID ▲

FIELD GlobalID ►

- * ALIAS GlobalID
- * DATA TYPE String
- * WIDTH 38
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

ID retained from source data

DESCRIPTION SOURCE

NCDOT

Hide Field GlobalID ▲

FIELD CreationDate ►

- * ALIAS CreationDa
- * DATA TYPE Date
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Original creation date

DESCRIPTION SOURCE

NCDOT

Hide Field CreationDate ▲

FIELD Creator ►

- * ALIAS Creator
- * DATA TYPE String
- * WIDTH 128
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Original creator

DESCRIPTION SOURCE

NCDOT

Hide Field Creator ▲

FIELD [EditDate](#) ▶

- * ALIAS EditDate
- * DATA TYPE Date
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Edit date, reflects end of updates by RK&K

DESCRIPTION SOURCE

NCDOT

[Hide Field EditDate](#) ▲

FIELD [Editor](#) ▶

- * ALIAS Editor
- * DATA TYPE String
- * WIDTH 128
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Entity completing latest edits from EditDate field

DESCRIPTION SOURCE

NCDOT

[Hide Field Editor](#) ▲

FIELD [DataLastUp](#) ▶

- * ALIAS DataLastUp
- * DATA TYPE Date
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Date the data was last updated

DESCRIPTION SOURCE

NCDOT

[Hide Field DataLastUp](#) ▲

FIELD [Label](#) ▶

- * ALIAS Label
- * DATA TYPE String
- * WIDTH 254
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Cartographic friendly version of the SystemName field.

DESCRIPTION SOURCE

NCDOT

[Hide Field Label](#) ▲

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 OrigID ▶

- * ALIAS OriginalID
- * DATA TYPE Integer
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
ID from the original water service data source
- DESCRIPTION SOURCE
NCDOT

Hide Field OrigID ▲

Hide Details for object WaterServiceArea ▲

[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 2024-01-29

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 2024-02-01 13:13:55
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-29 16:21:10

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2024-01-29 16:21:10

[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

OTHER MAINTENANCE REQUIREMENTS

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.

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 ►

PHONE

VOICE 919-707-6146

ADDRESS

TYPE

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 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 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.

CONSTRAINTS

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.

[Hide Metadata Constraints ▲](#)