

# Waste Water Service Areas WWSA - August 2023 - NC Department of Transportation

## File Geodatabase Feature Class



### Tags

Waste Water Service Areas, WWSA, Sewer Service Areas, Sanitary Sewer, Provider, Planning, Wastewater Management Plan, Wastewater Treatment Facilities, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

### Summary

As part of the ATLAS project, a workgroup was formed and tasked with identifying, obtaining and in some cases developing data to facilitate NCDOT Community Studies' processes and aid in the completion of reports, which assess direct impacts and indirect and cumulative effects potential.

Current municipal and other providers' wastewater/sewer service areas were identified as one of the data needs. The WWSA layer is derived from either current and/or future service area polygons (shapefile or PDF) or data (shapefile or PDF) showing the location of existing wastewater/sewer assets such as pipes, manholes and treatment plants.

The development of this waste water service area (WWSA) dataset is related to a similar effort to develop a water service area (WSA) dataset from existing base data.

### Description

The Wastewater Service Area WWSA dataset is a statewide polygon layer comprised of waste water service area boundaries obtained from NCDEQ Division of Water Resources for the state of North Carolina.

This data layer will primarily aid and inform indirect and cumulative effects analysis as a data input to existing Community Studies' quantitative tools, along with other various data inputs. 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 sewer 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 WWSA 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** -84.264736 **East** -75.608269

**North** 36.562691 **South** 33.736236

## 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, planningCadastre, 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** 2022-02-01 00:00:00

**PUBLICATION DATE** 2023-08-11 00:00:00

*Hide Thesaurus ▲*

**THEME KEYWORDS** Waste Water Service Areas, WWSA, Sewer Service Areas, Sanitary Sewer, Provider, Planning, Wastewater Management Plan, Wastewater Treatment Facilities, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

**THESAURUS** ▶

**TITLE** User

**CREATION DATE** 2022-02-01 00:00:00

**PUBLICATION DATE** 2023-08-11 00:00:00

*Hide Thesaurus ▲*

*Hide Topics and Keywords ▲*

## Citation ▶

**TITLE** Waste Water Service Areas WWSA - August 2023 - NC Department of Transportation

**CREATION DATE** 2022-02-01 00:00:00

**PUBLICATION DATE** 2023-08-11 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 ▶

#### 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](mailto: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](mailto: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 ►

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 2022-02-01 00:00:00

ENDING DATE 2022-04-17 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE -84.264736

\* EAST LONGITUDE -75.608269

\* NORTH LATITUDE 36.562691

\* SOUTH LATITUDE 33.736236

\* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 452106.472850

\* EAST LONGITUDE 2996660.878481

\* SOUTH LATITUDE 34700.650610

\* NORTH LATITUDE 1023756.811929

\* 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](mailto: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](mailto: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 WasteWaterServiceArea

\* OBJECT TYPE composite

\* OBJECT COUNT 1242

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME WasteWaterServiceArea

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Polygon

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 1242

\* 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 Maser QA/QC prior to undergoing a QA/QC process involving Maser, NV5 and RK&K, where service areas were reviewed, verified and finalized during periodic meetings. Service areas that developed by NV5 were reviewed by RK&K staff and then verified after additional coordination.

Once finalized, the Maser developed polygons were moved to 'DraftFinal' status. The initial project scope involving all parties specified that 'DraftFinal' shapes be then verified by the provider. Once verified, the service area would be moved to 'Final' status. However, the project was put on hold prior to initiating this step. In the development of this merged layer service area, polygons did not undergo a final verification by service providers, as was decided.

The merged layer involved initial scoping meetings with NCDOT Community Studies/EAU and scope approval and the following steps:

- 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 05/7/21.
- GIS Unit internal QA/QC utilizing the data reviewer tool; provided comments pertaining to 'holes' in the 1st draft data layer
- RK&K 1st draft revisions, internal QA/QC and 2nd draft submittal - 05/28/21
- GIS Unit internal QA/QC utilizing the data reviewer tool; provided comments pertaining to 'holes' and 'overlaps' in the 2nd draft data layer
- Coordination meeting between NCDOT GIS Unit, Community Studies, EAU and RK&K - 07/07/21
- RK&K 2nd draft revisions, internal QA/QC and 3rd draft submittal 9/17/21

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, 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 WWSA 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 first input into this dataset was existing the 2004 Wastewater Service Areas (WWSA) data layer which was obtained from NC DEQ Division of Water Resources as part of the ATLAS. Developing an updated wastewater service area base data layer required first engaging wastewater/sewer service providers to verify and/or obtain current data in shapefile or PDF format and gathering their input. Using this data, service areas were then developed as available. This engagement included initial outreach to the 408 Type A and 303 Type B system providers and the creation of a webpage for

providers to provide input and upload data. Service area polygons were then developed using the data obtained from this engagement effort, either by verifying the provided shapes or developing them from asset shapefiles or PDFs of the service areas.

To complete this task, NCDOT initially contracted with the consulting firms Maser Consulting (layer development), NV5 (layer development/project management), AECOM (database/webpage development) and RK&K (layer development, municipal contacts). This effort continued from its inception in early 2019 until March 2020 when the project was put on hold due to fiscal concerns.

When the project was restarted in February 2021, certain factors such as the need to complete this dataset for use in ATLAS and a directive to focus on higher growth areas with concentrations of STIP projects, necessitated the use of existing data (previously developed or 2004 base data) and limited additional outreach to identified major providers to obtain current data to develop a merged layer.

There are two bins that data within the WWSA will fall within, which is tracked by the Status attribute:  
A. Value = Original. This data is brought forward as-is from the 2004 base data. Within this data set, this data contains data developed for the 2004 effort, as well 1997 from a previous effort.  
B. Value = Final. Data with this status has been collected from the providing entity or developed by the ATLAS team from information supplied by the providing entity.

Consolidated to a single WWSA dataset, the modified or published date is tracked with the ShapeDate attribute field. This merged layer incorporates the best available data for use in indirect and cumulative effects in ATLAS in keeping with the overall intent.

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](mailto: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](mailto: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

- 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 in 2021.
- GIS Unit internal QA/QC utilizing the data reviewer tool; provided comments pertaining to 'holes' in the 1st draft data layer
- RK&K 1st draft revisions, internal QA/QC and 2nd draft submittal was made in 2021
- GIS Unit internal QA/QC utilizing the data reviewer tool; provided comments pertaining to 'holes' and 'overlaps' in the 2nd draft data layer
- Coordination meeting between NCDOT GIS Unit, Community Studies, EAU and RK&K was held
- RK&K 2nd draft revisions, internal QA/QC and 3rd draft submittal in early 2022

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](mailto: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](mailto: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 [WasteWaterServiceArea ►](#)

\* TYPE Feature Class  
\* ROW COUNT 1242

DEFINITION

Waste 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 AtlasID ►

ALIAS ATLASID  
\* DATA TYPE String  
\* WIDTH 15  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION  
Specific ATLAS ID

DESCRIPTION SOURCE  
NCDOT

[Hide Field AtlasID ▲](#)

FIELD SystmType ►

\* ALIAS SystemType  
\* DATA TYPE String  
\* WIDTH 50  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION  
Wastewater systems in NC are defined as Type A (major) or Type B

DESCRIPTION SOURCE  
NCDOT

LIST OF VALUES

VALUE Type A  
DESCRIPTION Major Wastewater system  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Type B  
DESCRIPTION Minor Wastewater system  
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field SystmType ▲](#)

FIELD SrvArType ►

\* ALIAS SrvArType  
\* DATA TYPE String  
\* WIDTH 10  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION  
Service areas are defined as either 'current' or 'future.'

DESCRIPTION SOURCE  
NCDOT

LIST OF VALUES

VALUE current  
DESCRIPTION Current Service Area

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE future

DESCRIPTION Future Service Area

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

*Hide Field SrvArType ▲*

FIELD **SystemGeog** ▶

\* ALIAS SystemGeog

\* DATA TYPE String

\* WIDTH 25

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

County where the system is located

DESCRIPTION SOURCE

NCDOT

*Hide Field SystemGeog ▲*

FIELD **SystemName** ▶

\* ALIAS SystemName

\* DATA TYPE String

\* WIDTH 150

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Name of the system

DESCRIPTION SOURCE

NCDOT

*Hide Field SystemName ▲*

FIELD **SystemOwner** ▶

\* ALIAS SystemOwner

\* DATA TYPE String

\* WIDTH 150

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

System Owner/Service Provider

DESCRIPTION SOURCE

NCDOT

*Hide Field SystemOwner ▲*

FIELD **ShapeDate** ▶

\* ALIAS ShapeDate

\* DATA TYPE String

\* WIDTH 25



- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Date the service area polygon was created

DESCRIPTION SOURCE

NCDOT

*Hide Field ShapeDate ▲*

FIELD Status ►

- \* ALIAS Status
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Original or Final status

DESCRIPTION SOURCE

NCDOT

*Hide Field Status ▲*

FIELD OrigID ►

- \* ALIAS OriginalID
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

*Hide Field OrigID ▲*

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 ▲](#)

[Hide Details for object WasteWaterServiceArea ▲](#)

[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 13:14:01  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-29 16:20:56

AUTOMATIC UPDATES  
HAVE BEEN PERFORMED Yes  
LAST UPDATE 2024-01-29 16:20:56

[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 ▲](#)