

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

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

Topics and Keywords

Themes or categories of the resource Farming, Boundaries, Inland Waters, Location, Planning & Cadastral, Transportation, Environment

Content type Downloadable Data

Export to FGDC CSDGM XML format as Resource Description No

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

Place keywords North Carolina

Thesaurus

Title User

Creation date 2022-02-01 00:00:00

Publication date 2023-08-11 00:00:00

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

Citation Contacts

Responsible party - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

Address

Type

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

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.

Responsible party - resource provider

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

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Contact's position Environmental Program Consultant

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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.

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

westBL 452106.472850

eastBL 2996660.878481

southBL 34700.650610

northBL 1023756.811929

exTypeCode Yes

Resource Points of Contact

Point 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 information

Phone

Voice 919-707-6146

Address

Type physical

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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 - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

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Resource Constraints

Legal constraints

Limitations of use

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Security constraints

Classification unclassified

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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

ProjectedCoordinateSystem

WKID 102719

XOrigin -121841900

YOrigin -93659000

XYScale 3048.0060960121928

ZOrigin -100000

ZScale 10000

MOrigin -100000

MScale 10000

XYTolerance 0.0032808333333333331

ZTolerance 0.001

MTolerance 0.001

HighPrecision true

LatestWKID 2264

WKT

PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",GEOGCS["GCS_North_American_1983",DATUM["79.0"],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666667],

Reference system identifier

Value 2264
Codespace EPSG
Version 6.12(9.0.0)

Spatial Data Properties

Vector

Level of topology for this dataset geometry only
Geometric objects
Feature class name WasteWaterServiceArea
Object type composite
Object count 1242

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

Data Quality

Scope of quality information

Resource level dataset

Data quality report - Completeness omission

Data quality measure reference

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

Data quality report - Conceptual consistency

Data quality measure reference

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

Data quality report - Quantitative attribute accuracy

Data quality measure reference

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

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 - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

Address

Type

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

Postal code 27604

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.

Process step

Description

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

Process contact - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

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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 - originator

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

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Distribution

Distributor

Contact information - distributor

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

Address

Type

Delivery point 4101 Capital Boulevard

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Distribution format

Name File Geodatabase Feature Class

Version 10.5

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.

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.

Field AtlasID

Alias ATLASID

Data type String

Width 15

Precision 0

Scale 0

Field description

Specific ATLAS ID

Description source

NCDOT

Field SystemType

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

Field SrvcArType

Alias SrvcArType

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

Field SystemGeog

Alias SystemGeog

Data type String

Width 25

Precision 0

Scale 0

Field description

County where the system is located

Description source

NCDOT

Field SystemName

Alias SystemName

Data type String

Width 150

Precision 0

Scale 0

Field description

Name of the system

Description source

NCDOT

Field SystemOwner

Alias SystemOwner

Data type String

Width 150

Precision 0

Scale 0

Field description

System Owner/Service Provider

Description source

NCDOT

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

Field Status

Alias Status

Data type String

Width 50

Precision 0

Scale 0

Field description

Original or Final status

Description source

NCDOT

Field OrigID

Alias OriginalID

Data type String

Width 50

Precision 0

Scale 0

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.

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.

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 2023-09-27

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 2026-08-26 14:39:50

Last modified in ArcGIS for the item 2023-09-27 14:37:03

Automatic updates

Have been performed Yes

Last update 2023-09-27 14:37:03

Metadata Contacts

Metadata contact - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6146

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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 - point of contact

Organization's name North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

Contact's position Environmental Program Consultant

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Metadata Constraints

Security constraints

Classification unclassified

Classification system None

Limitations of use

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Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file