

STC Rail Lines Flood Potential, February 2022 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Bridge, Rail, Flooding, STC, Strategic Transportation Corridor, WSEL, 2022, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

This dataset was originally created in February 2022 as part of the Project ATLAS initiative at NCDOT to support the Rail Division with project delivery in the development phase.

This layer contains rail centerlines along the Strategic Transportation Corridor (STC) for North Carolina Department of Transportation. The data shows where the rail lines are located as well as the elevation of the rail line pulled from Lidar data for the state. The line was then compared to Water Surface Elevation (WSEL) and Depth of water at impacted structures for the 10,25,50,100, and 500 year flooding return interval. This shows the potential flooding of the rail lines during flooding events.

North Carolina's Strategic Transportation Corridors form the core network of multimodal passageways. These 25 corridors move large volumes of people and freight across the regions of the state and to key markets outside the state.

Description

The STC Flooded Rail lines dataset is a statewide polyline layer containing rail centerlines along the Strategic Transportation Corridor that could be flooded.

This dataset is used to show the potential flooding of the rail lines during different flood events.

Datasets developed under Project ATLAS do not replace any 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.

Credits

The Rail Division within NCDOT was tasked to create this dataset.

Maintenance of this dataset is handled by the Rail Division. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

Use limitations

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

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Extent

West -84.124441 **East** -76.617274

North 36.564189 **South** 33.839590

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:625,000

ArcGIS Metadata ▶

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE boundaries, location, transportation, environment

* CONTENT TYPE Downloadable Data

PLACE KEYWORDS North Carolina

THESAURUS ▶

TITLE User

CREATION DATE 2021-12-15 00:00:00

PUBLICATION DATE 2022-02-25 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Bridge, Rail, Flooding, WSEL, 2022, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS, North Carolina

THESAURUS ▶

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Hide Thesaurus ▲

Hide Topics and Keywords ▲

Citation ▶

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CREATION DATE 2021-12-15 00:00:00

PUBLICATION DATE 2022-02-25 00:00:00

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

Hide Citation ▲

Citation Contacts ▶

RESPONSIBLE PARTY

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

CONTACT'S POSITION Environmental Program Consultant

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6136

ADDRESS

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 ►

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RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation - Rail Division

INDIVIDUAL'S NAME David Mathern

CONTACT'S POSITION GIS Specialist

CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE

VOICE 919-707-4100

FAX (919)707-4154

ADDRESS

TYPE postal

DELIVERY POINT 1556 MAIL SERVICE CENTER

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27699

COUNTRY US

E-MAIL ADDRESS dtmathern@ncdot.gov

HOURS OF SERVICE

M-F 8am - 5pm

[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 10.5.1.7333

CREDITS

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[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 2021-12-15 00:00:00

ENDING DATE 2021-12-15 00:00:00

VERTICAL EXTENT

* MINIMUM VALUE -2.868958

* MAXIMUM VALUE 2920.291206

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
* WEST LONGITUDE -84.124441
* EAST LONGITUDE -76.617274
* NORTH LATITUDE 36.564189
* SOUTH LATITUDE 33.839590
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 493457.651630
* EAST LONGITUDE 2700013.510819
* SOUTH LATITUDE 70271.415098
* NORTH LATITUDE 1024302.203883
* 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 919-707-6136

ADDRESS

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27610
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[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

Maintenance of this dataset is handled by the Rail Division. 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 - Rail Division
INDIVIDUAL'S NAME David Mathern
CONTACT'S POSITION GIS Specialist
CONTACT'S ROLE originator

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Hide Resource Maintenance ▲

Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

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CONSTRAINTS

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[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
- * PROJECTION NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet
- * COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102719
X ORIGIN -121841900
Y ORIGIN -93659000
XY SCALE 3048.0060960121928
Z ORIGIN -100000
Z SCALE 3048.0060960121923
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.0032808333333333331
Z TOLERANCE 0.0032808333333333331
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 2264
VCSWKID 105703
LATESTVCSWKID 6360

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]],VERTCS["NAVD88_height_(ftUS)",VDATUM["North_American_Vertical_Datum_1988"],PARAMETER["Vertical_Shift",0.0],PARAMETER["Direction",1.0],UNIT["Foot_US",0.3048006096012192]]

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 STCFloodedRailLines

- * OBJECT TYPE composite
- * OBJECT COUNT 205428

[Hide Vector ▲](#)

ARCgis FEATURE CLASS PROPERTIES ▶

FEATURE CLASS NAME STCFloodedRailLines

- * FEATURE TYPE Simple
- * GEOMETRY TYPE Polyline
- * HAS TOPOLOGY FALSE
- * FEATURE COUNT 205428
- * SPATIAL INDEX TRUE
- * LINEAR REFERENCING TRUE

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.

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

Geometry checks were conducted using ESRI's Data Reviewer tool.

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

Rail lines were pulled from NCDOT Rail Track geometry from 11-18-2020. Rail lines were taken to a single line for the STC. Elevation was pulled from the NCFMP Digital Elevation models. Ground of the lines was compared to the Water Surface Elevation and the Depth Rasters to determine areas that would be impacted by Flooding at the 10, 25, 50, 100, and 500 year return intervals.

All rail lines were broken into approximately 10 ft segment to show the depth of flooding.

The original dataset used includes line data that represents all of the standard gauge freight and passenger railroad track in North Carolina, and contains the following information: owner, operator, track type, branch, beginning milepost, ending milepost, in service status, and out of service date (where applicable). The linework was digitized based on the most recent statewide aerial photography provided by the State of North Carolina. Select areas of inactive track have been added to the dataset to aid in preserved and future corridor analysis.

NCFMP Digital Elevation Models were used to apply an elevation to the rail line so the data could be compared to the water surface elevation and Depth values from NCFMP

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 919-707-6136

ADDRESS

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

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[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 919-707-6136

ADDRESS

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

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

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

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6136

ADDRESS

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive
CITY Raleigh
ADMINISTRATIVE AREA NC
POSTAL CODE 27610
COUNTRY US
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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

VERSION 10.5
* NAME File Geodatabase Feature Class

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT STCFloodedRailLines ►

* TYPE Feature Class

* ROW COUNT 205428

DEFINITION

STC Rail Lines that could flood

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 RailSegID ►

* ALIAS RailSegID

* DATA TYPE String

* WIDTH 25

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

All rail lines were broken into approximately 10 ft segment to show the depth of flooding. This is a unique ID for each segment

DESCRIPTION SOURCE

NCDOT

[Hide Field RailSegID ▲](#)

FIELD Owner ►

* ALIAS OwnerName

* DATA TYPE String

* WIDTH 25

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Owner of the rail line

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE CSX

DESCRIPTION CSX Transportation

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE DOD

DESCRIPTION Department of Defense

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Duke

DESCRIPTION Duke Energy

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE NCDOT

DESCRIPTION North Carolina Department of Transportation

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE NCRR

DESCRIPTION North Carolina Railroad Company

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE NCVA

DESCRIPTION North Carolina & Virginia RR

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE NS

DESCRIPTION Norfolk Southern

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field Owner ▲](#)

FIELD OwnerFull ►

* ALIAS OwnerLongName

* DATA TYPE String

* WIDTH 50

* PRECISION 0

* SCALE 0
FIELD DESCRIPTION
Full name of Owner

DESCRIPTION SOURCE
NCDOT

Hide Field OwnerFull ▲

FIELD Operator ►

* ALIAS OperatorName
* DATA TYPE String
* WIDTH 20
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Abbreviation of Rail line Operator

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES

VALUE WSS
DESCRIPTION Winston-Salem Southbound Railway
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE ARC
DESCRIPTION Alexander Railroad
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE CPLJ
DESCRIPTION Camp Lejuene Railroad
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE RSNR
DESCRIPTION Red Springs & Northern Railroad
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE CATS
DESCRIPTION Charlotte Area Transit System
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE CALA
DESCRIPTION Carolina Southern Railroad
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE WTRY
DESCRIPTION Wilmington Terminal Railroad, Inc.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE GSMR
DESCRIPTION Great Smoky Mountains Railroad
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE PNRW
DESCRIPTION Piedmont & Northern Railway
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE TBRY
DESCRIPTION Thermal Belt Railway

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE DOD

DESCRIPTION Department of Defense

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE CLNA

DESCRIPTION Carolina Coastal Railway

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE CFR

DESCRIPTION Cape Fear Railways

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE LRS

DESCRIPTION Laurinberg & Southern Company, Inc.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE NCVA

DESCRIPTION North Carolina & Virginia Railroad

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE YVRR

DESCRIPTION Yadkin Valley Railroad

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE NCDOT

DESCRIPTION North Carolina Department of Transportation

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE CA

DESCRIPTION Chesapeake & Albemarle Railroad

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE ATW

DESCRIPTION Atlantic & Western Railway, LP

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE NS

DESCRIPTION Norfolk Southern Corporation

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE CWCY

DESCRIPTION Caldwell County Railroad

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE AR

DESCRIPTION Aberdeen & Rockfish Railroad

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Duke Energy

DESCRIPTION Duke Energy

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE CSX

DESCRIPTION CSX Transportation

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE HPTD

DESCRIPTION High Point, Thomasville & Denton Railroad

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE CTR
DESCRIPTION Clinton Terminal Railroad
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE ACWR
DESCRIPTION Aberdeen Carolina & Western Railway
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field Operator ▲

FIELD Branch ►

* ALIAS Branch
* DATA TYPE String
* WIDTH 25
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Name assigned to the segment of rail line by the operator

DESCRIPTION SOURCE
NCDOT

Hide Field Branch ▲

FIELD PasserVic ►

ALIAS AmtrakYN
* DATA TYPE String
* WIDTH 5
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Indicates whether the rail track is operated by Amtrak

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES

VALUE Y
DESCRIPTION Rail track is operated by Amtrak
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE N
DESCRIPTION Rail track is not operated by Amtrak
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field PasserVic ▲

FIELD TrackStat ►

ALIAS TrackStatus
* DATA TYPE String
* WIDTH 50
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Specifies the status of the track

DESCRIPTION SOURCE
NCDOT

LIST OF VALUES

VALUE Active
DESCRIPTION line in use
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Inactive
DESCRIPTION line out of use
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE Preserved Corridor
DESCRIPTION corridors that no longer have rail lines
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field TrackStat ▲

FIELD Comments ►

* ALIAS Comments
* DATA TYPE String
* WIDTH 254
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Comments related to track segment

DESCRIPTION SOURCE
NCDOT

Hide Field Comments ▲

FIELD County ►

* ALIAS County
* DATA TYPE String
* WIDTH 12
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
county in which the rail line falls

DESCRIPTION SOURCE
NCDOT

Hide Field County ▲

FIELD Division ►

* ALIAS Division
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION
Division rail segment is located in

DESCRIPTION SOURCE
NCDOT

[Hide Field Division ▲](#)

FIELD Bridge ▶

- * ALIAS Bridge
- * DATA TYPE String
- * WIDTH 5
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Is this segment on a Bridge

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE TRUE

DESCRIPTION true this segment is on a Bridge

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field Bridge ▲](#)

FIELD BridgeID ▶

- * ALIAS BridgeID
- * DATA TYPE String
- * WIDTH 25
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

ID of the bridge corresponding to the NC Structures data

DESCRIPTION SOURCE

NCDOT

[Hide Field BridgeID ▲](#)

FIELD GroundElev ▶

- * ALIAS GroundElevation
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Elevation of the rail segment from Lidar pulled from the NCFMP Lidar data in feet.

DESCRIPTION SOURCE

NCDOT

[Hide Field GroundElev ▲](#)

FIELD WSEL10 ▶

- * ALIAS WSEL10
- * DATA TYPE Double
- * WIDTH 8

- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Water Surface Elevation at the 10 year return interval for each of the rail line segments in feet.

DESCRIPTION SOURCE

NCDOT

[Hide Field WSEL10 ▲](#)

FIELD WSEL25 ►

- * ALIAS WSEL25
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Water Surface Elevation at the 25 year return interval for each of the rail line segments in feet.

DESCRIPTION SOURCE

NCDOT

[Hide Field WSEL25 ▲](#)

FIELD WSEL50 ►

- * ALIAS WSEL50
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Water Surface Elevation at the 50 year return interval for each of the rail line segments in feet.

DESCRIPTION SOURCE

NCDOT

[Hide Field WSEL50 ▲](#)

FIELD WSEL100 ►

- * ALIAS WSEL100
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Water Surface Elevation at the 100 year return interval for each of the rail line segments in feet.

DESCRIPTION SOURCE

NCDOT

[Hide Field WSEL100 ▲](#)

FIELD WSEL500 ►

- * ALIAS WSEL500
- * DATA TYPE Double

- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Water Surface Elevation at the 500 year return interval for each of the rail line segments in feet.

DESCRIPTION SOURCE

NCDOT

[Hide Field WSEL500 ▲](#)

FIELD Depth10 ►

- * ALIAS DEPTH10
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Depth of water at the 10 year return interval for each of the rail line segments in feet.

DESCRIPTION SOURCE

NCDOT

[Hide Field Depth10 ▲](#)

FIELD Depth25 ►

- * ALIAS DEPTH25
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Depth of water at the 25 year return interval for each of the rail line segments in feet.

DESCRIPTION SOURCE

NCDOT

[Hide Field Depth25 ▲](#)

FIELD Depth50 ►

- * ALIAS DEPTH50
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Depth of water at the 50 year return interval for each of the rail line segments in feet.

DESCRIPTION SOURCE

NCDOT

[Hide Field Depth50 ▲](#)

FIELD Depth100 ►

- * ALIAS DEPTH100

* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Depth of water at the 100 year return interval for each of the rail line segments in feet.

DESCRIPTION SOURCE

NCDOT

[Hide Field Depth100 ▲](#)

FIELD Depth500 ►

* ALIAS DEPTH500
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Depth of water at the 500 year return interval for each of the rail line segments in feet.

DESCRIPTION SOURCE

NCDOT

[Hide Field Depth500 ▲](#)

FIELD Flooded10 ►

* ALIAS Flooded10
* DATA TYPE String
* WIDTH 5
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Is the rail segment flooded at the 10 year return interval.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE True

DESCRIPTION Flooded

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE False

DESCRIPTION Not Flooded

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field Flooded10 ▲](#)

FIELD Flooded25 ►

* ALIAS Flooded25
* DATA TYPE String
* WIDTH 5
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Is the rail segment flooded at the 25 year return interval.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE True

DESCRIPTION Flooded

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE False

DESCRIPTION Not Flooded

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field Flooded25 ▲

FIELD Flooded50 ►

* ALIAS Flooded50

* DATA TYPE String

* WIDTH 5

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Is the rail segment flooded at the 50 year return interval.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE True

DESCRIPTION Flooded

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE False

DESCRIPTION Not Flooded

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

Hide Field Flooded50 ▲

FIELD Flooded100 ►

* ALIAS Flooded100

* DATA TYPE String

* WIDTH 5

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Is the rail segment flooded at the 100 year return interval.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE True

DESCRIPTION Flooded

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE False

DESCRIPTION Not Flooded

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field Flooded100 ▲](#)

FIELD Flooded500 ▶

- * ALIAS Flooded500
- * DATA TYPE String
- * WIDTH 5
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Is the rail segment flooded at the 500 year return interval.

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE True

DESCRIPTION Flooded

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

VALUE False

DESCRIPTION Not Flooded

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field Flooded500 ▲](#)

FIELD OperatorFull ▶

- * ALIAS OperatorLongName
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Full Name of Operator

DESCRIPTION SOURCE

NCDOT

[Hide Field OperatorFull ▲](#)

FIELD DataDate ▶

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

FIELD DESCRIPTION

Final date of Lidar release to public

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE 12/31/2014

DESCRIPTION 12/31/2014

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCFMP

VALUE 2/28/2016

DESCRIPTION 2/28/2016
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCFMP

VALUE 5/31/2018
DESCRIPTION 5/31/2018
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCFMP

VALUE 3/31/2019
DESCRIPTION 3/31/2019
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCFMP

[Hide Field DataDate ▲](#)

FIELD [CollectionYr ▶](#)

- * ALIAS CollectionYear
- * DATA TYPE SmallInteger
- * WIDTH 2
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION
Year of Actual Lidar data collection

DESCRIPTION SOURCE
NCDOT

[Hide Field CollectionYr ▲](#)

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 [LIDARTile ▶](#)

- * ALIAS LIDAR Tile Number
- * DATA TYPE String
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION
LIDAR Tile name that applies to the data

DESCRIPTION SOURCE

NCDOT

DESCRIPTION OF VALUES

Tile Scheme with 1500 separate names LA_37_11806101_20160228, LA_37_10683506_20180531

[Hide Field LIDARTile ▲](#)

[Hide Details for object STCFloodedRailLines ▲](#)

[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 2022-04-27

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 2024-02-01 15:50:43
LAST MODIFIED IN ARCGIS FOR THE ITEM 2022-04-27 13:12:43

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2022-04-27 13:07:34

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

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

CONTACT INFORMATION ►

PHONE
VOICE 919-707-6136

ADDRESS

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 Rail Division.
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

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Hide Contact information ▲

Hide Metadata Maintenance ▲

Metadata Constraints ►

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

The North Carolina Department of Transportation shall not be held liable for any errors in this metadata. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of 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

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[Hide Metadata Constraints ▲](#)