

Yellow Lance - Identified Stream Reaches for Programmatic Agreement, October 2021 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Yellow lance, *Elliptio lanceolata*, Freshwater mussel, Bivalve, Neuse River, Tar River, Endangered Species Act, threatened, Eastern mussel programmatic, Division 1-8, mitigation payment, programmatic, bridges / culverts replacement, repair and rehabilitation, aquatic, USFWS identified stream reach, USFWS, Neuse River Basin, Tar River Basin, Biota, Boundaries, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

Summary

This dataset was made available as part of the Project ATLAS initiative at NCDOT to support the Environmental Analysis Unit (EAU) Mitigation and Modeling Unit with project delivery in the development phase. Data is current as of March 2019.

This dataset contains USFWS identified stream reaches for the Yellow lance. This dataset was created by USFWS to highlight areas of known or potential species occurrence that could trigger consultation under the ESA, as part of a programmatic bridge/culvert agreement between USFWS and NCDOT/FHWA/USACE.

Please read the Practitioner's Guide for the Eastern Mussel Programmatic Opinion for applicability of bridge replacement, repair and rehabilitation projects and reference Appendix B for Section 7 Programmatic Process for bridge replacement/replacement/rehabilitation and culvert replacement and extension and bridge to culvert replacement.

https://connect.ncdot.gov/resources/Environmental/EAU/BSG/Documents/Mussel%20Programmatic/Practitioners%20Guide%20to%20Eastern%20Mussel%20Programmatic_October%202020.pdf

Full programmatic opinion is located on EAU BSG website.

<https://connect.ncdot.gov/resources/Environmental/EAU/BSG/Documents/Mussel%20Programmatic/PBO%20for%20Yellow%20Lance%20Tar%20River%20Spiny%20Dwarf%20Wedge%20Mussel%20Atlantic%20Pigtoe%20or%20Bridge-Culvert%20Replacements%2020190911.pdf>

Description

The Yellow Lance Identified Stream Reaches dataset is a polyline layer depicting streams with historical / known / potential in the Neuse and Tar River basins for Neuse River Waterdog.

The Yellow Lance is a bright yellow mussel with a shell more than twice as long as it is tall, reaching just over three inches in length. Its shell is composed of two hinged valves which are joined by a ligament. The outermost layer of the shell has a waxy appearance with brownish ridges known as "growth rests" that formed during an intermediate stage of growth when the ridge area was the edge of the shell. The lustrous inner layer is usually an iridescent blue color, and sometimes has white or salmon color on the shorter end of the shell from where the foot extends (the anterior). The longer end of the shell from where the siphons extend (the posterior) is distinctly rounded. Yellow lance has interlocking hinge "teeth" on the inside of the shell to help keep the two valves in proper alignment.

The dataset is linear stream features depicting historical/known/potential habitat for listed/proposed species, as of 2019. Use of these datasets is solely for the use as part of the decision process for the Programmatic bridge/culvert agreement between USFWS and NCDOT/FHWA/USACE. These datasets are intended to be updated annually and provided to NCDOT personnel for use in the decision process for the Programmatic bridge/culvert agreement between USFWS and NCDOT/FHWA/USACE.

These datasets were created for the sole purpose of informing the decision process for the Programmatic bridge/culvert consultation agreement between USFWS and NCDOT/FHWA/USACE. These data sets do not replace Heritage element occurrence data, NCWRC PAWS data, nor other USFWS publicly available species occurrence or habitat data.

Credits

The USFWS Raleigh Ecological Service's Aquatic Biologist was tasked to create this dataset as part of the Programmatic bridge/culvert agreement between USFWS and NCDOT/FHWA/USACE.

Annual maintenance of this dataset is handled by the USFWS Raleigh Ecological Service who sends datasets to the Biological Surveys Group within NCDOT.

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 do not replace any field work for future projects and may not be used as a replacement for site visits / field surveys by qualified 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 -78.677394 **East** -77.486092
North 36.383793 **South** 35.333380

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, biota, 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 2019-03-29 00:00:00
PUBLICATION DATE 2021-10-15 00:00:00

Hide Thesaurus ▲

THEME KEYWORDS Yellow lance, Elliptio lanceolata, Freshwater mussel, Bivalve, Neuse River, Tar River, Endangered Species Act, threatened, Eastern mussel programmatic, Division 1-8, mitigation payment, programmatic, bridges / culverts replacement, repair and rehabilitation, aquatic, USFWS identified stream reach, USFWS, Neuse River Basin, Tar River Basin, Biota, Boundaries, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS

THESAURUS ▶

TITLE User

CREATION DATE 2019-03-29 00:00:00

PUBLICATION DATE 2021-10-15 00:00:00

[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ▶

TITLE Yellow Lance - Identified Stream Reaches for Programmatic Agreement, October 2021 - NC Department of Transportation

CREATION DATE 2019-03-29 00:00:00

PUBLICATION DATE 2021-10-15 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

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Hide Contact information ▲

RESPONSIBLE PARTY

ORGANIZATION'S NAME USFWS Raleigh Ecological Service

CONTACT'S POSITION Aquatic Biologist

CONTACT'S ROLE originator

CONTACT INFORMATION ►

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VOICE 919-856-4520

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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

CREDITS

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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 -84.422111

EAST LONGITUDE -75.416034

SOUTH LATITUDE 33.730557

NORTH LATITUDE 36.617257

EXTENT CONTAINS THE RESOURCE Yes

TEMPORAL EXTENT

BEGINNING DATE 2019-03-29 00:00:00

ENDING DATE 2019-03-29 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -78.677394

* EAST LONGITUDE -77.486092

* NORTH LATITUDE 36.383793

* SOUTH LATITUDE 35.333380

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 2096204.696130

* EAST LONGITUDE 2445714.659510

* SOUTH LATITUDE 579615.088010

* NORTH LATITUDE 958777.718462

* 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

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY annually

SCOPE OF THE UPDATES dataset

OTHER MAINTENANCE REQUIREMENTS

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[Hide Contact information ▲](#)

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

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[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

* TYPE Projected

* GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983

* PROJECTION NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet

* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102719

X ORIGIN -121841900

Y ORIGIN -93659000

XY SCALE 3048.0060960121918

Z ORIGIN -100000

Z SCALE 10000

M ORIGIN -1023.741847

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",2000000.0026166666],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 YellowLance

* OBJECT TYPE composite

* OBJECT COUNT 362

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME YellowLance

* FEATURE TYPE Simple

* GEOMETRY TYPE Polyline

* HAS TOPOLOGY FALSE

* FEATURE COUNT 362

* 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 **2019-03-29 00:00:00**
PUBLICATION DATE **2021-10-15 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 **2019-03-29 00:00:00**
PUBLICATION DATE **2021-10-15 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 2019-03-29 00:00:00

PUBLICATION DATE 2021-10-15 00:00:00

[Hide Product specification ▲](#)

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

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

Base data layers:

-major_hydro-1m (GCS_North American_1983)

-hydro24k_arc (GCS_North American_1983)

-HUC10 watersheds

major_hydro-1m (GCS_North American_1983) -- http://data-ncdenr.opendata.arcgis.com/datasets/2a5324f732bb44d9a1ca29f1c17370ee_0

hydro24k_arc (GCS_North American_1983) --
https://gis11.services.ncdot.gov/arcgis/rest/services/NCDOTApp_ESM/NCDOT_24kHydro/MapServer

HUC10 watersheds -- <http://data-ncdenr.opendata.arcgis.com/datasets/dwr-10-digit-huc-watersheds>

Species data layer was created by initially selecting stream segments (hydrology) that overlapped NC Natural Heritage Element Occurrence (EO) polygons for each species, then connecting stream segments between EOs, and extending stream segments to headwaters. HUC10 watersheds were then selected based on whether they contained species stream segments.

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

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

Linear data was reviewed in ESRI's Data Reviewer tool to verify geometry.

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 ►

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

Data was downloaded as a shapefile. Features for NC were exported out and converted to a geodatabase.

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 ►

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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 ►

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POSTAL CODE 27610

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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

VERSION 10.5

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [YellowLance ►](#)

* TYPE Feature Class

* ROW COUNT 362

DEFINITION

Areas of known occurrence for the Yellow Lance

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 [StreamName ▶](#)

- * ALIAS StreamName
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Name of Stream where Yellow Lance is found

DESCRIPTION SOURCE

NCDOT

[Hide Field StreamName ▲](#)

FIELD [DWQName ▶](#)

- * ALIAS DWQName
- * DATA TYPE String
- * WIDTH 100
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

DEQ Stream Name

DESCRIPTION SOURCE

NCDOT

[Hide Field DWQName ▲](#)

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 ▲](#)

[Hide Details for object YellowLance ▲](#)

[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
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139
METADATA STYLE ISO 19139 Metadata Implementation Specification

CREATED IN ARCGIS FOR THE ITEM 2024-02-01 14:59:02
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-29 16:12:56

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2024-01-29 16:12:56

[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 ►

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[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY annually

OTHER MAINTENANCE REQUIREMENTS

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Hide Contact information ▲

Hide Metadata Maintenance ▲

Metadata Constraints ►

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

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LIMITATIONS OF USE

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