

Public Water Supply Wellfields Areas of Environmental Concern, August 2019 - NC Department of Transportation

Geodatabase Feature Class



Tags Coastal Area Management Act, CAMA, NC Division of Coastal Management, NCDCM, estuarine waters, public trust areas, coastal shorelines, ocean erodible area, unvegetated beach area, small surface supply watersheds, public water supply well fields, unique coastal geologic formations, significant coastal archaeological resources, low tide, high tide, navigable-in-fact waters, hydrography, Descriptive Boundaries of Coastal, Joint, and Inland Waters, DBCJIW, QL2, LiDAR, Kill Devil Hills, Permuda Island, static vegetation lines, erosion rates, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS, North Carolina

Summary

This dataset was originally created in January 2019 as part of the Project ATLAS initiative at NCDOT to support the Sweeping Environmental Group with project delivery in the development phase.

Public Water Supply Wellfields are areas of rapidly draining sands extending from the earth's surface to a shallow groundwater table that supplies public drinking water. Currently, one wellfield is designated as an AEC Cape Hatteras Well Field.

These data are needed to fulfill elements of the following work flows:

- CAMA Consistency
- CAMA Major permit
- CAMA AEC work flow
- PCE checklist
- NRTR
- Permitting (if in CAMA county)
 - o Nationwide
 - o Individual
 - o General
 - o Water Quality Certification
- PCN completion
- US Coast Guard

Description

Areas of Environmental Concern (AECs) are the foundation of the Coastal Resources Commission's permitting program for coastal development. An AEC is an area of natural importance: It may be easily destroyed by erosion or flooding; or it may have environmental, social, economic or aesthetic values that make it valuable to our state. The Coastal Resources Commission designates areas as AECs to protect them from uncontrolled development, which may cause irreversible damage to property, public health or the environment, thereby diminishing their value to the entire state.

The ATLAS Public Water Supply Wellfields Areas of Environmental Concerns (AEC) dataset is a statewide polygon layer depicting areas of well-drained sands that extend downward from the surface into the shallow ground water table which supplies the public with potable water. These surficial well fields are confined to a readily definable geographic

area as identified by the North Carolina Department of Environment and Natural Resources with assistance and support from affected local governments

The CRC has designated the following as a public water supply well field which shall be subject to the use standards as set out in Paragraph (b) of this Rule:

(1) Cape Hatteras Well Field. The County of Dare is supplied with raw water from a well field located south of N.C. 12 on Hatteras Island between Frisco and Buxton. The area of environmental concern is bounded by a line located 1,000 feet from the centerlines of three tracts. The first tract is identified as "well field" on maps entitled "Cape Hatteras Wellfield Area of Environmental Concern" approved by the Coastal Resources Commission on July 24, 1987, and extends approximately 12,000 feet west from Water Association Road. The second tract is conterminous with the first tract, is identified as "future well field" on said maps and extends approximately 8,000 feet to the east of Water Association Road. The third tract is identified as "future well field" on said maps and extends approximately 6,200 feet along the National Park Service boundary east of Water Association Road. The aquifer beneath the tracts serves as the sole source of drinking water for the communities of Avon, Buxton, Frisco, and Hatteras as well as the national seashore recreation area. The wetlands, swales, and surface waters adjacent to the well field provide a large source of recharge and are a potential vehicle for contaminants. Due to these facts contamination of the water supply could have an adverse effect on people other than the local residents of Hatteras Island. Water-borne disease organisms could be easily transported to other areas of the state or the east coast by tourists who are attracted to the area daily.

Datasets developed under Project ATLAS do not replace any Sweeping Environmental 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 ATLAS Sweeping Environmental Group within NCDOT was tasked to create this dataset.

Annual maintenance of this dataset is handled by the Sweeping Environmental Group. 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 -75.619687

East -75.546013

North 35.258720

South 35.233631

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:625,000

Topics and Keywords

Themes or categories of the resource Oceans, Boundaries, Inland Waters, Location, Transportation, Environment

Content type Downloadable Data

Export to FGDC CSDGM XML format as Resource Description No

Theme keywords Coastal Area Management Act, CAMA, NC Division of Coastal Management, NCDCM, estuarine waters, public trust areas, coastal shorelines, ocean erodible area, unvegetated beach area, small surface supply watersheds, public water supply well fields, unique coastal geologic formations, significant coastal archaeological resources, low tide, high tide, navigable-in-fact waters, hydrography, Descriptive Boundaries of Coastal, Joint, and Inland Waters, DBCJIW, QL2, LiDAR, Kill Devil Hills, Permuda Island, static vegetation lines, erosion rates, Transportation, NCDOT, Environment, Location, ATLAS

Thesaurus

Title User

Creation date 2019-01-01 00:00:00

Publication date 2019-08-28 00:00:00

Place keywords North Carolina

Thesaurus

Title User

Creation date 2019-01-01 00:00:00

Publication date 2019-08-28 00:00:00

Citation

Title Public Water Supply Wellfields Areas of Environmental Concern, August 2019 - NC Department of Transportation

Creation date 2019-01-01 00:00:00

Publication date 2019-08-28 00:00:00

Presentation formats digital map

FGDC geospatial presentation format vector digital data

Citation Contacts

Responsible party - resource provider

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

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

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 - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group

Contact's position Environmental Program Consultant

Contact information

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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 10.5.1.7333

Credits

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Annual maintenance of this dataset is handled by the Sweeping Environmental Group. 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 -84.422111
East longitude -75.416034
South latitude 33.730557
North latitude 36.617257
Extent contains the resource Yes

Temporal extent

Beginning date 2019-01-01 00:00:00
Ending date 2019-01-01 00:00:00

Extent

Geographic extent

Bounding rectangle

Extent type Extent used for searching

West longitude -75.619687
East longitude -75.546013
North latitude 35.258720
South latitude 35.233631
Extent contains the resource Yes

Extent in the item's coordinate system

westBL 3009172.958772
eastBL 3030893.444858
southBL 557887.592095
northBL 566276.203270
exTypeCode Yes

Resource Points of Contact

Point of contact - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group

Contact's position Environmental Program Consultant

Contact information

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Resource Maintenance

Resource maintenance

Update frequency annually

Scope of the updates dataset

Other maintenance requirements

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Maintenance contact - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

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Resource Constraints

Legal constraints

Limitations of use

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Security constraints

Classification unclassified

Classification system None

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Constraints

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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	PublicWaterSupplyWellfieldsAEC
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Object type composite

Object count 1

ArcGIS Feature Class Properties

Feature class name PublicWaterSupplyWellfieldsAEC

Feature type Simple

Geometry type Polygon

Has topology FALSE

Feature count 1

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 2019-01-01 00:00:00

Publication date 2019-08-28 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 2019-01-01 00:00:00
Publication date 2019-08-28 00:00:00

Data quality report - Quantitative attribute accuracy

Data quality measure reference

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 2019-01-01 00:00:00
Publication date 2019-08-28 00:00:00

Lineage

Lineage statement

The centerline of the tracts described above was approximated using the description above, parcel boundaries obtained from NC OneMap, aerial photography, and ArcGIS measurement and bearing tools. The resulting line was then buffered by 1000 feet to generate the approximate AEC boundary.

Initial coordination with Cathy Brittingham, NCDOT coordinator for the NC Division of Coastal Management (NCDCM), resulted in the following list of AECs and their importance and use to the NCDOT:

AECs most relevant for NCDOT projects:

- 1) 15A NCAC 07H .0205. COASTAL WETLANDS
- 2) 15A NCAC 07H .0206. ESTUARINE WATERS
- 3) 15A NCAC 07H .0207. PUBLIC TRUST AREAS
- 4) 15A NCAC 07H .0209. COASTAL SHORELINES
- 5) 15A NCAC 07H .0304. AECS WITHIN OCEAN HAZARD AREAS
 - a) OCEAN ERODIBLE AREA,
 - b) INLET HAZARD AREA, AND
 - c) UNVEGETATED BEACH AREA)

AECs very rarely if ever relevant for NCDOT projects:

- 6) 15A NCAC 07H .0304. AECS WITHIN OCEAN HAZARD AREAS (HIGH HAZARD FLOOD AREA).
- 7) 15A NCAC 07H .0405. SMALL SURFACE WATER SUPPLY WATERSHEDS – ONLY DESIGNATIONS FOR
 - a) THE FRESH POND BETWEEN KILL DEVIL HILLS AND NAGS HEAD ON BODIE ISLAND AND ADJACENT CATCHMENT AREA; AND
 - b) THE TOOMERS CREEK WATERSHED.
- 8) 15A NCAC 07H .0406. PUBLIC WATER SUPPLY WELL FIELDS – ONLY DESIGNATION IS FOR CAPE HATTERAS WELL FIELD.
- 9) 15A NCAC 07H .0505. COASTAL AREAS THAT SUSTAIN REMNANT SPECIES – NONE DESIGNATED.
- 10) 15A NCAC 07H .0506. COASTAL COMPLEX NATURAL AREAS – NONE DESIGNATED.
- 11) 15A NCAC 07H .0507. UNIQUE COASTAL GEOLOGIC FORMATIONS – ONLY DESIGNATION IS FOR JOCKEY'S RIDGE.
- 12) 15A NCAC 07H .0509. SIGNIFICANT COASTAL ARCHAEOLOGICAL RESOURCES
- 13) ONLY DESIGNATION IS FOR PERMUDA ISLAND.

Process step

Description

Based on this information, SWEEPing digitized all AECs with geographic boundaries that are suited to approximate mapping efforts. Priority was given to those data that were identified as most relevant to NCDOT projects. Descriptions of AECs, data sources used, and general methods employed are provided below. AECs that were not mapped were:

- dynamic areas requiring specific expertise, such as Inlet Hazard Areas and High Hazard Flood Areas,
- determined to have suitable mapping available, such as Inlet Hazard Areas and Coastal Wetlands, or
- have no designated AEC boundaries, such as Coastal Areas that Sustain Remnant Species, Coastal Historic Architectural Resources, and Coastal Complex Natural Areas.

AECs Mapped

- 1) 15A NCAC 07H .0206. ESTUARINE WATERS
- 2) 15A NCAC 07H .0207. PUBLIC TRUST AREAS
- 3) 15A NCAC 07H .0209. COASTAL SHORELINES
- 4) 15A NCAC 07H .0304. AECs WITHIN OCEAN HAZARD AREAS
 - a) OCEAN ERODIBLE AREA, AND
 - b) UNVEGETATED BEACH AREA
- c) 15A NCAC 07H .0405. SMALL SURFACE WATER SUPPLY WATERSHEDS- THE FRESH POND BETWEEN KILL DEVIL HILLS AND NAGS HEAD ON BODIE ISLAND AND ADJACENT CATCHMENT AREA
- 5) 15A NCAC 07H .0406. PUBLIC WATER SUPPLY WELL FIELDS –CAPE HATTERAS WELL FIELD.
- 6) 15A NCAC 07H .0507. UNIQUE COASTAL GEOLOGIC FORMATIONS –JOCKEY’S RIDGE.
- 7) 15A NCAC 07H .0509. SIGNIFICANT COASTAL ARCHAEOLOGICAL RESOURCES
 - a) PERMUDA ISLAND.

AECs Not Mapped

- 8) 15A NCAC 07H .0205. COASTAL WETLANDS
- 9) 15A NCAC 07H .0304. AECs WITHIN OCEAN HAZARD AREAS (HIGH HAZARD FLOOD AREA).
- 10) 15A NCAC 07H .0505. COASTAL AREAS THAT SUSTAIN REMNANT SPECIES – NONE DESIGNATED.
- 11) 15A NCAC 07H .0506. COASTAL COMPLEX NATURAL AREAS – NONE DESIGNATED.
- 12) 15A NCAC 07H .0510. SIGNIFICANT COASTAL HISTORIC ARCHITECTURAL RESOURCES – NONE DESIGNATED.
- 13) 15A NCAC 07H .0304. AECs WITHIN OCEAN HAZARD AREAS, INLET HAZARD AREAS
- 14) 15A NCAC 07H .0405. SMALL SURFACE WATER SUPPLY WATERSHEDS – TOOMERS CREEK WATERSHED.

Process contact - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

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

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Process step

Description

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

Process contact - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group

Contact's position Environmental Program Consultant

Contact information

Phone

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Process step

Description

Geodatabase was forwarded on to the GIS Unit for publishing as part of data for project ATLAS.

Process contact - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group

Contact's position Environmental Program Consultant

Contact information

Phone

Voice 919-707-6136

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

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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 919-707-6136

Address

Type physical

Delivery point 4101 Capital Boulevard

City Raleigh

Administrative area NC

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Country US

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Hours of service

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Distribution format

Name File Geodatabase Feature Class

Version 10.5

Fields

Details for object PublicWaterSupplyWellfieldsAEC

Type Feature Class

Row count 1

Definition

Areas of well-drained sands that extend downward from the surface into the shallow ground water table which supplies the public with potable water.

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 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 2019-08-26

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 2026-08-26 13:34:40
Last modified in ArcGIS for the item 2019-08-26 10:47:42

Automatic updates

Have been performed Yes

Last update 2019-08-26 10:47:42

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

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Voice 919-707-6136

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Metadata Maintenance

Maintenance

Update frequency as needed

Other maintenance requirements

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Maintenance contact - originator

Organization's name North Carolina Department of Transportation - Sweeping Environmental Group

Contact's position Environmental Program Consultant

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Metadata Constraints

Security constraints

Classification unclassified

Classification system None

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Thumbnail and Enclosures

Thumbnail

Thumbnail type

Image file