



# Advancing Transportation through Linkages, Automation, and Screening (ATLAS) Training Courses

**SC.00**

**A Guide to the ATLAS Screening Tool**

# Introduction

The ATLAS Screening tool is used to identify key features in a study area, customize screenings to fit a subject matter, and provide summary reports.

After logging in, you will start by identifying a study area. Once you have done that, you will be prompted to select GIS layers to use in your screening. The final step is to generate a screening report.

Click on the hyperlinks in the list to the right to jump directly to one of these topics.

To gain access to ATLAS or for questions, contact [ATLAS@ncdot.gov](mailto:ATLAS@ncdot.gov).



## Learning Outcomes

In this module, the user will gain an understanding of how to:

- ▶ [Log into ATLAS](#)
- ▶ [Identify a Study Area](#)
  1. [By Project ID](#)
  2. [Upload a Study Area](#)
  3. [Draw a Study Area](#)
- ▶ [Select GIS Layers to Screen](#)
- ▶ [Read a Screening Report](#)



# Advancing Transportation through Linkages, Automation, and Screening (ATLAS) Training Courses

## How to Log into ATLAS

- Via Direct URL
- Via Connect Homepage
- Via Connect Preconstruction Home
  - Via Connect Project Site

# Accessing ATLAS Screening Tool

There are four ways to log into the Screening Tool.

Click on the hyperlinks in the list to the right to jump directly to one of these methods or continue to advance the module to view all four.

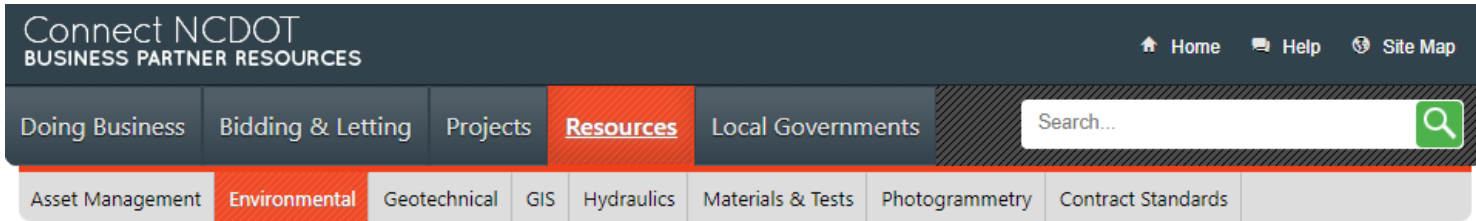
Once you have accessed the tool, you will log in. Click on the links below to jump directly to that topic.

- [Logging in](#) after accessing the Screening Tool
- [Troubleshooting](#) issues

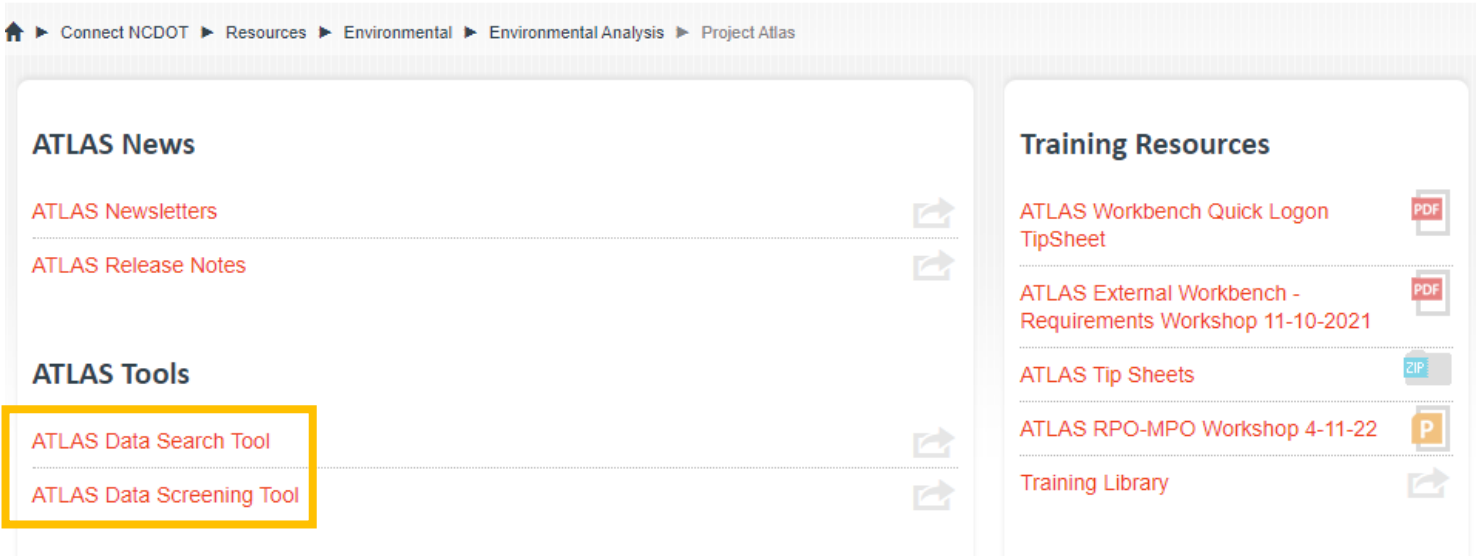
- 0.1 There are three ways to log in to access the ATLAS Screening Tool:
1. [Via Direct URL](#): This the easiest and quickest way to access the ATLAS Screening Tool.
  2. [Via Connect Home Page](#): This is useful if you already find yourself working within the Connect page and want to jump into the Screening Tool.
  3. [Via Preconstruction Home](#): This is useful if you find yourself working withing preconstruction, even without a specific project.
  4. [Via Project Site](#): When working within projects on the Connect project site, easily jump into the Screening Tool.



# 1.0 Accessing ATLAS Via Direct URL



## Project ATLAS Resources for using ATLAS



1.1 When accessing ATLAS via **direct link**, you'll follow this URL:  
<https://connect.ncdot.gov/resources/Environmental/EAU/Project-Atlas/Pages/default.aspx>

1.2 From there, you'll select the **ATLAS Data Search Tool** or **ATLAS Data Screening Tool** in the "ATLAS Tools" section.



Tip: Bookmark this URL for easier future access



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Connect NCDOT  
BUSINESS PARTNER RESOURCES

Home Help Site Map

Doing Business Bidding & Letting Projects **Resources** Local Governments

Search...

Asset Management Environmental Geotechnical GIS Hydraulics Materials & Tests Photogrammetry Contract Standards

### Resources

Data and documents needed to work with the NCDOT.

Connect NCDOT Resources

#### Asset Management

Utilizes various processes to ensure efficient utilization of resources.

#### Environmental

NCDOT works diligently to ensure that all projects are conducted in compliance with the National Environmental Policy Act.

#### Geotechnical

Geotechnical, geoenvironmental and geopavement resources for planning, design, construction and maintenance of the North Carolina highway system.

#### GIS

GIS Services provided for NCDOT and its customers.

#### Hydraulics

Guidelines and resources for hydraulic design and highway drainage.

#### Additional Resources

##### Project Management

To provide resource information on project management to project managers working on NCDOT transportation projects.

##### Airport Pavement Management Program

Provides central location to store and display pavement related data and inspection results.

##### Enterprise System Development Life Cycle (SDLC)

Enterprise System Development Life Cycle (SDLC)

##### For CADD Consultants

Technical support, problem solving, and engineering automation with CADD

##### Location & Surveys

2.1 Begin by accessing the **Connect Home Page** URL:  
<https://connect.ncdot.gov/Pages/default.aspx>

2.2 Then, click the **Resources** button in the header.

Tip: If, after hitting **Resources**, your browser prompts you to Sign In, you can hit Cancel and continue the steps to accessing your ATLAS account.



Generally, this pop up appears to non-NCDOT users.

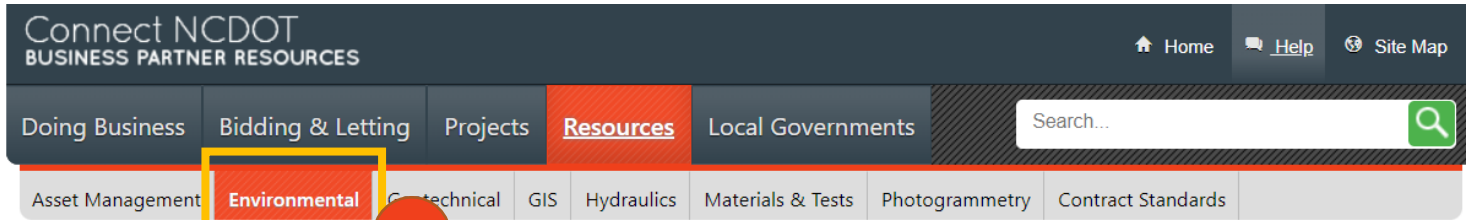
Sign in  
https://connect.ncdot.gov

Username

Password

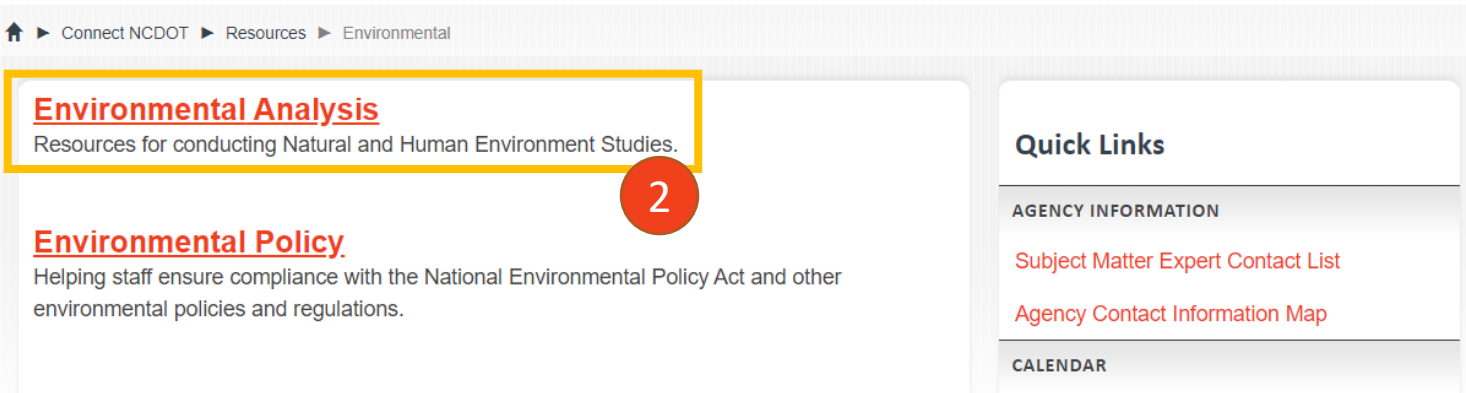
Sign in Cancel





### Environmental Compliance

NCDOT works diligently to ensure that all projects are conducted in compliance with the National Environmental Policy Act.



2.3 Next, click **Environmental** in the grey bar at the top of the screen.



2.4 Then select **Environmental Analysis** from the left side.



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Connect NCDOT  
BUSINESS PARTNER RESOURCES

Home Help Site Map

Doing Business Bidding & Letting Projects **Resources** Local Governments

Asset Management Environmental Geotechnical GIS Hydraulics Materials & Tests Photogrammetry Contract Standards

### Environmental Analysis

Resources for conducting Natural and Human Environment Studies

Connect NCDOT > Resources > Environmental > Environmental Analysis

- Biological Surveys**  
Resources for ESA compliance: T&E surveys - Section 7 consultation - Programmatic Agreements  
[Read More](#) →
- Cultural Resources**  
Resources for Archaeology and Historic Architecture  
[Read More](#) →
- Environmental Coordination & Permitting**  
NRTR - Permitting - Processes and Procedures  
[Read More](#) →
- ETRACS**  
User Resources and Help Files for the Environmental Tracking and Coordination System  
[Read More](#) →
- Mitigation & Modeling**  
Resources for Mitigation and Modeling Group  
[Read More](#) →
- Monitoring & Stewardship**  
Resources for Mitigation Monitoring and Stewardship  
[Read More](#) →
- Project ATLAS**  
Resources for using ATLAS  
[Read More](#) →

**Publications**

✓ Name

Category : Centerline (15)

**Links**

- [About EAU](#)
- [2022 Merger and Interagency Calendar](#)
- [ETRACS - Environmental Tracking and Coordination System](#)
- [Agency Contact Map](#)
- [Merger Meeting Materials: Concurrence Points 1-4](#)
- [2021 Merger and Interagency Meeting Calendar](#)
- [Merger Meeting Materials: Concurrence Points 4B and 4C](#)
- [Permit Applications](#)
- [Issued Permits](#)

**Invoice and Estimate Submittals**

To submit your Invoices and Estimates to

2.5 From there, select **Project ATLAS**.



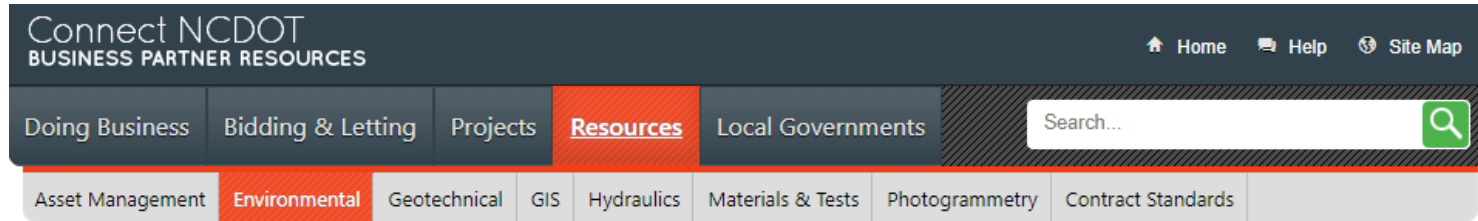
If you don't see **Project ATLAS** on your screen, scroll down – it will appear alphabetically.



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Connect NCDOT  
BUSINESS PARTNER RESOURCES

Home Help Site Map

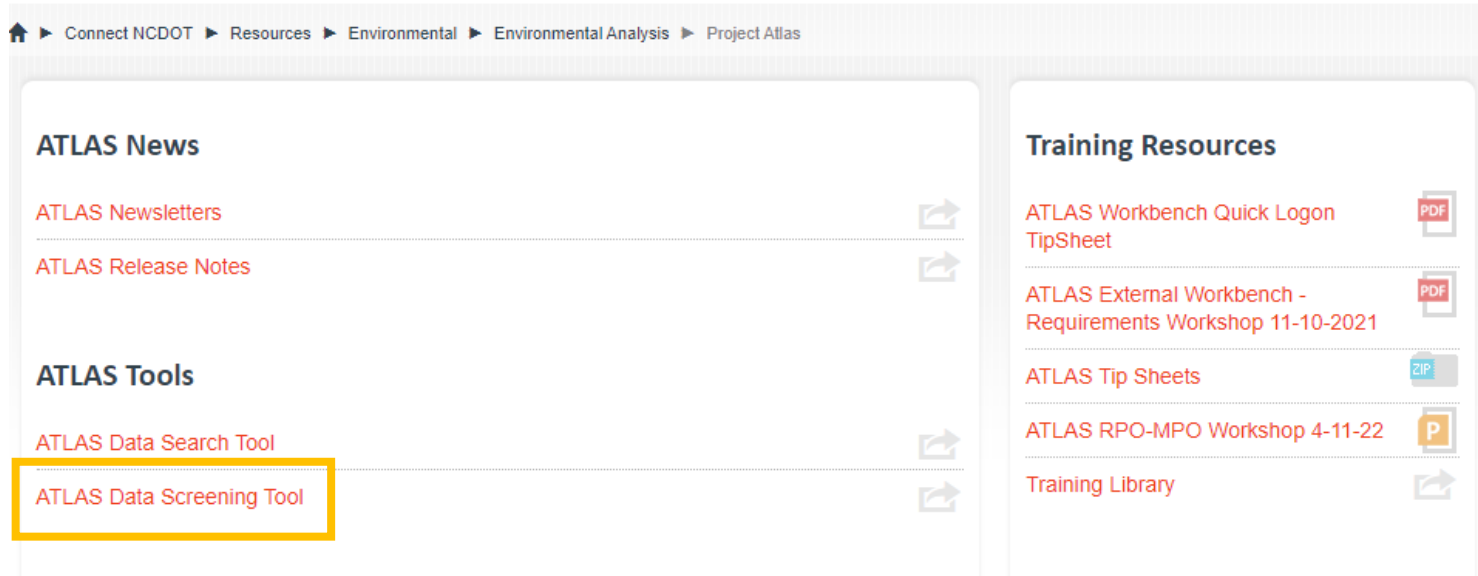
Doing Business Bidding & Letting Projects **Resources** Local Governments

Search...

Asset Management **Environmental** Geotechnical GIS Hydraulics Materials & Tests Photogrammetry Contract Standards

### Project ATLAS

Resources for using ATLAS



Connect NCDOT > Resources > Environmental > Environmental Analysis > Project Atlas

#### ATLAS News

- ATLAS Newsletters
- ATLAS Release Notes

#### ATLAS Tools

- ATLAS Data Search Tool
- ATLAS Data Screening Tool**

#### Training Resources

- ATLAS Workbench Quick Logon TipSheet (PDF)
- ATLAS External Workbench - Requirements Workshop 11-10-2021 (PDF)
- ATLAS Tip Sheets (ZIP)
- ATLAS RPO-MPO Workshop 4-11-22 (P)
- Training Library

2.6 You're now in the ATLAS homepage.

Select **ATLAS Data Search Tool** or **ATLAS Data Screening Tool** to continue your log in.



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## Preconstruction ▸ Preconstruction Projects Home

Preconstruction information for NCDOT Highway and Bridge projects. Send any problems or concerns to [preconstructionhelp@ncdot.gov](mailto:preconstructionhelp@ncdot.gov). Send ProjectWise issues to [dot.pwsupport@ncdot.gov](mailto:dot.pwsupport@ncdot.gov).

3.1 To access ATLAS via the **Preconstruction Home** page, navigate to the Preconstruction homepage and select **ATLAS Screening Tool** from the left-hand side menu.

Home ▸ Preconstruction

- Home
- My Precon
  - Precon Dashboard
  - My Precon Projects
  - My Submittal Reviews
- Tools
  - ATLAS Data Search Tool
  - **ATLAS Data Screening Tool**
  - Letting Admin Dashboard
  - Manage Project Contacts
  - Preconstruction Search
  - Usage Assessment
- Resources
  - Bridge Plans and Reports
  - Discipline Specific Links
  - Division Specific Guidance
  - ORD Working Documents & Action Items
  - Signal Plans

### Find a Site

U-6004

Division 01	BP1.R004.1 Bertie 9
	BP1.R005.1 Tyrrell 23
Division 02	R-2574
Division 03	R-5808
	R-5809
Division 04	R-5809A NC 45 south of US 17
Division 05	R-5809B NC 45 north of US 17
	R-5856
Division 06	Webinar lab test rename title
Division 07	
Division 08	
Division 09	



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## Preconstruction ▶ Preconstruction Projects Home

Preconstruction information for NCDOT Highway and Bridge projects. Send any problems or concerns to [preconstructionhelp@ncdot.gov](mailto:preconstructionhelp@ncdot.gov). Send ProjectWise issues to [dot.pwsupport@ncdot.gov](mailto:dot.pwsupport@ncdot.gov).

4.1 To access ATLAS via a specific **Connect Project Site**, navigate to the Connect homepage and search for your project in the **Find a Site** search bar.

The screenshot shows the 'Preconstruction' homepage. On the left is a navigation menu with sections: Home, My Precon (with links to Precon Dashboard, My Precon Projects, and My Submittal Reviews), Tools (with links to ATLAS Data Search Tool, ATLAS Data Screening Tool, Letting Admin Dashboard, Manage Project Contacts, Preconstruction Search, and Usage Assessment), and Resources (with links to Bridge Plans and Reports, Discipline Specific Links, Division Specific Guidance, ORD Working Documents & Action Items, and Signal Plans). The main content area features a 'Find a Site' search bar with a yellow border. The search input contains 'u-6004' and a dropdown menu shows 'U-6004'. Below the search bar is a list of project sites organized by division (Division 01 to Division 09). The 'Division 01' dropdown is currently selected.

Division	Project Site
Division 01	BP1.R004.1 Bertie 9
Division 01	BP1.R005.1 Tyrrell 23
Division 02	R-2574
Division 03	R-5808
Division 03	R-5809
Division 04	R-5809A NC 45 south of US 17
Division 05	R-5809B NC 45 north of US 17
Division 06	R-5856
Division 06	Webinar lab test rename title
Division 07	
Division 08	
Division 09	



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Division 09 Preconstruction ▶ U-6004

**Preconstruction Home**

**Precon Dashboard**

**Project Site**

- Change Report
- Recently Modified
- Key Documents
- Project Contacts
- Email Project Contacts
- Project Info U-6004
- Project Structures

**Project Management**

- Project Schedule

**Precon Tools**

- Pay Items & Quantities
- Project Commitments
- Submittal Tracker
- Avoidance and Minimization Tracker

**Processing Requests**

- Grant Consulting Firm Access
- Grant Municipality Access
- Lock/Unlock Projects
- Unlock Pay Items

**Reference**

- Preconstruction Help
- Discipline Specific Links

**ATLAS Tools**

- ATLAS Workbench
- ATLAS Data Search Tool
- ATLAS Screening Tool

**NOTICE:** All libraries will be locked approximately 7 weeks prior to letting to ensure there are no changes during plan checking and finalizing everything is uploaded and marked before locking. This includes final sealed plans, final sealed special provisions, labeling key documents. For any changes or additions needed after this date, please contact the Contract Office for central let projects [finalplans@ncdot.gov](mailto:finalplans@ncdot.gov), or for let projects.

- ▶ General
- ▶ Disciplines
- ▶ Collaboration
- ▶ LET Preparation
- ▶ Post LET
- ▶ **ATLAS Tools**
  - **ATLAS Workbench**  
Use the Workbench to monitor project status, submit your final project documents, and upload spatial deliverables.
  - **ATLAS Data Search Tool**  
Use the Data Search Tool to access GIS datasets from multiple sources in one single search interface.
  - **ATLAS Screening Tool**  
Use the Screening Tool to analyze a project study area for natural and human environment impacts based on key GIS datasets.

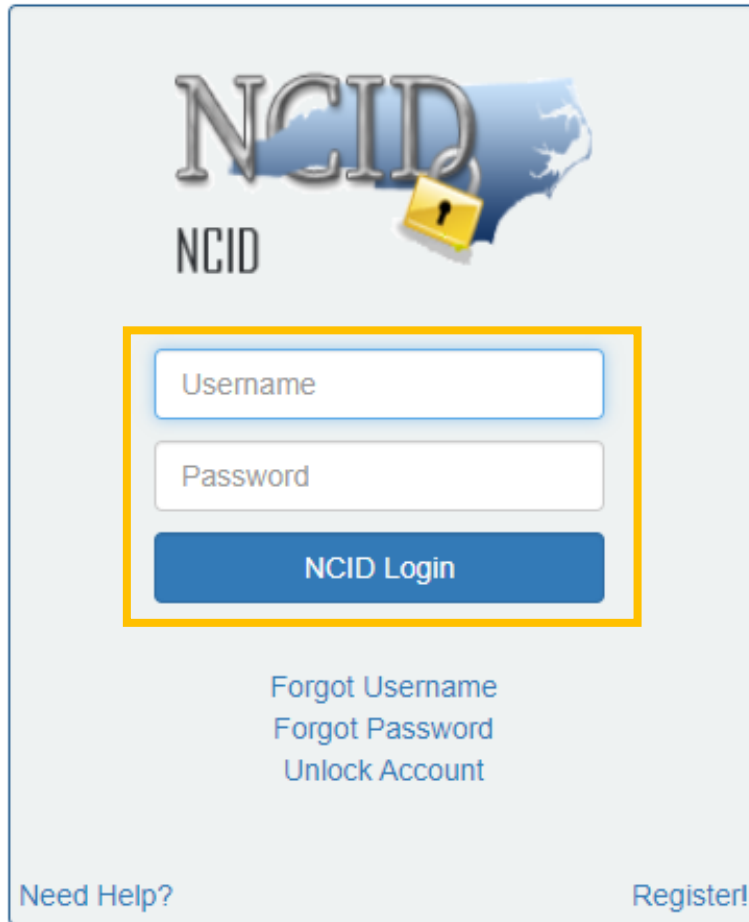
**Consulting Firm Access Summary**

Role	Firm Name
Utilities	CH Engineering PLLC
Roadway Design	Michael Baker Engineering Inc
Roadway Design	Pinecone Transportation Professionals PLLC
Project Management	Michael Baker Engineering Inc
Project Management	Pinecone Transportation Professionals PLLC
Utilities	Michael Baker Engineering Inc
Utilities	Pinecone Transportation Professionals PLLC
Right of Way	Michael Baker Engineering Inc
Right of Way	Pinecone Transportation Professionals PLLC
Location and Surveys	Wadelynn Geospacial LLC
Location and Surveys	NV5 (formerly CALYX Engineers and Consultants Inc)
Location and Surveys	O. R. Colan Associates LLC
Location and Surveys	Mattern & Craig Inc

4.2 The Screening Tool can be accessed from two places in the Connect project site:

1. In the menu on the left side, under the **ATLAS Tools** section at the bottom of the list.
2. From the bottom tab on the right side, under the **ATLAS Tools** tab.

### NCID Tips



NCID

NCID

Username

Password

NCID Login

[Forgot Username](#)

[Forgot Password](#)

[Unlock Account](#)

[Need Help?](#)


[Register!](#)

5.1 You will need to log into ATLAS regardless of the method you used to access the ATLAS Screening Tool if you are an NCDOT or non-NCDOT user, or if you previously logged into Connect.

When prompted with this log in, fill out your NCID **Username** and **Password**.

5.2 Click the **NCID Login** button.



Sign in to NCDOT Enterprise GIS (Prod) 

**USING YOUR NCID ACCOUNT**

OR

**USING YOUR ARCGIS ACCOUNT**

5.3 In the next pop-up, choose **Using your NCID account**.



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5.4 When prompted with the **Disclaimer**, click **I Accept** and you're in!



ATLAS will automatically log out after a period of inactivity.



ATLAS Search Tool



### Disclaimer

#### General

The N.C. Department of Transportation takes great care to provide secure, accurate and complete information for this service.

At the same time, the State of North Carolina, including NCDOT and its employees or agents, shall not be liable for damages or losses of any kind arising out of or in connection with the use of information on this site, including but not limited to, damages or losses caused by reliance upon the accuracy or timeliness of any such information or damages incurred from the viewing, distributing or copying of those materials.

The materials and information provided on this website are provided "as is." No warranty of any kind, implied, expressed or statutory, including but not limited to the warranties of non-infringement of third party rights, title, merchantability, fitness for a particular purpose and freedom from computer virus, is given with respect to the contents of this site or its hyperlinks to other Internet resources.

#### ATLAS

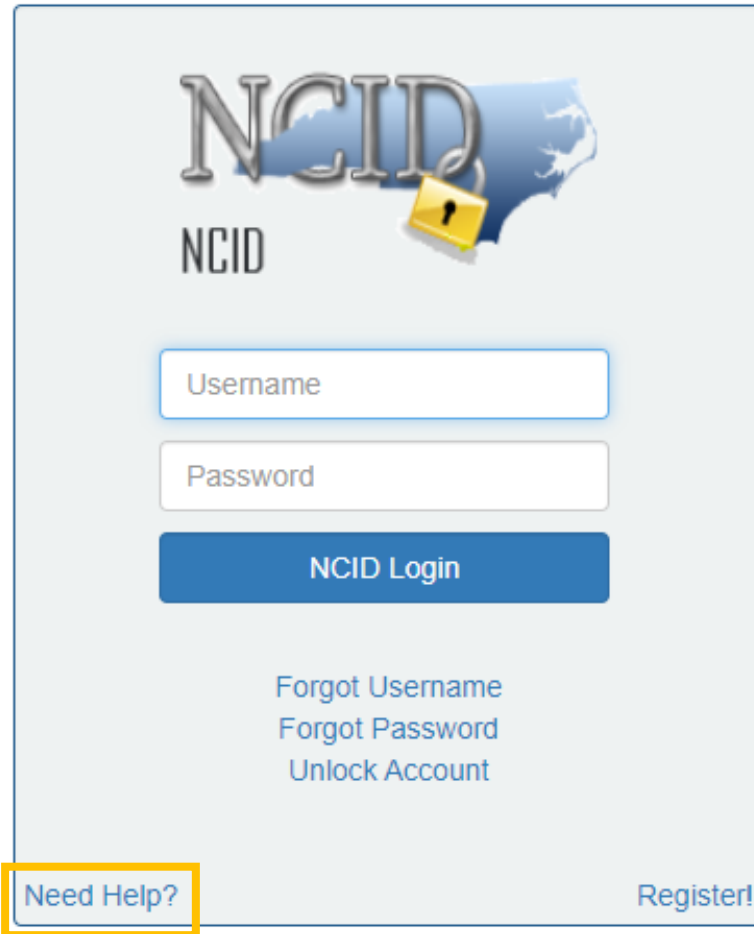
I Accept



Return to Introduction Slide



### NCID Tips



NCID

NCID

Username

Password

NCID Login

Forgot Username  
Forgot Password  
Unlock Account

Need Help?

Register!

[Privacy and Other Policies](#)

[Contact Us](#)

- 6.1 If you're having issues with your **NCID** log in, you can follow the **Need Help?** prompt.



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6.2 If you're having issues within your ATLAS account, you can follow the **Help** function found on the header or send an email to **ATLAS@ncdot.gov**.



ATLAS Search Tool



About

Additional Resources

Help

## Help

**Need training?** Training materials are available under the Additional Resources tab.

**Have questions or comments?** We have an ATLAS service account. Please email us at [ATLAS@ncdot.gov](mailto:ATLAS@ncdot.gov) with your questions.



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# Advancing Transportation through Linkages, Automation, and Screening (ATLAS) Training Courses

## Identify a Study Area

- By Project ID
- Upload a Study Area
- Draw a Study Area

The first step to using the Screening Tool is to identify a study area. You can do this in one of three ways.

Click on the hyperlinks in the list to the right to jump directly to one of these methods, or continue to advance the module to view all three.

0.1 There are 3 three ways to identify a study area:

- 1. [By Project ID](#)
- 2. [Upload a study area](#)
- 3. [Draw study area](#)

## Welcome to the Project Development Screening Tool

In order to screen a project study area, you need to complete a few steps:

- 1. Build Your Study Area
- 2. Buffer Your Study Area (optional)
- 3. Select Data to Screen
- 4. View, Download, and/or Share Your Screening Report

To begin: How would you like to build your Project Study Area?

**By Project ID**

Select if you know your STIP or SPOT ID for the project you are screening.

Use when you know your project's STIP or SPOT ID.

**Upload Study Area**

Select if you have a study area boundary in .zip format.

Use when you have your project's boundary shapefile.

**Draw Study Area**

Select if you would like to build your study area using the draw tool.

Use when you want to create a more customized area.



Return to Introduction Slide



1.1 To screen by using a project ID such as a STIP or SPOT number, the user will first need to select the **By Project ID** button.

## Welcome to the Project Development Screening Tool

---

In order to screen a project study area, you need to complete a few steps:

1. Build Your Study Area
2. Buffer Your Study Area (optional)
3. Select Data to Screen
4. View, Download, and/or Share Your Screening Report

To begin: How would you like to build your Project Study Area?

**By Project ID**

Select if you know your STIP or SPOT ID for the project you are screening.

**Upload Study Area**

Select if you have a study area boundary in .zip format.

**Draw Study Area**

Select if you would like to build your study area using the draw tool.



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1.2 In the search box, enter the **Project ID**. This can either be the **STIP ID** or the **SPOT ID**. Click the **Q** to begin the search. Your project should appear in the box below the search bar.

1 If more than one project appears, click on the desired project in the dropdown before selecting next.

Or, you can click on the line in the map to select your project. Click on the  in the top right corner, then select the line. If you'd like to unselect, click the  or  to erase.

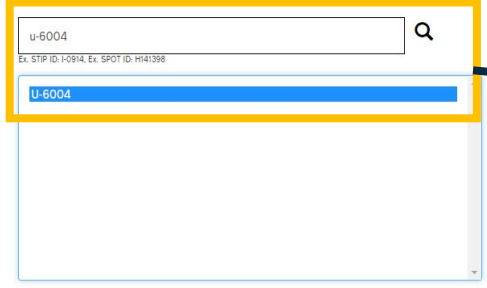
2 The project will also appear in the map.

3 To continue, select **Next**.

## Screen By Project ID

1

Enter the Project ID Search and/or select your project from the map with the Selection Tools. Only projects highlighted in blue on the map will be loaded in your Study Area when you click Next.



U-6004  
Ex. STIP ID: I-0914, Ex. SPOT ID: HI41398

U-6004



3



Next



Return to Introduction Slide

- 2.1 To screen by using a previously developed study area, the user will first need to select the **Upload Study Area** button.

### Welcome to the Project Development Screening Tool

---

In order to screen a project study area, you need to complete a few steps:

1. Build Your Study Area
2. Buffer Your Study Area (optional)
3. Select Data to Screen
4. View, Download, and/or Share Your Screening Report

To begin: How would you like to build your Project Study Area?

By Project ID

Select if you know your STIP or SPOT ID for the project you are screening.

Upload Study Area

Select if you have a study area boundary in .zip format.

Draw Study Area

Select if you would like to build your study area using the draw tool.



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### Upload a Study Area

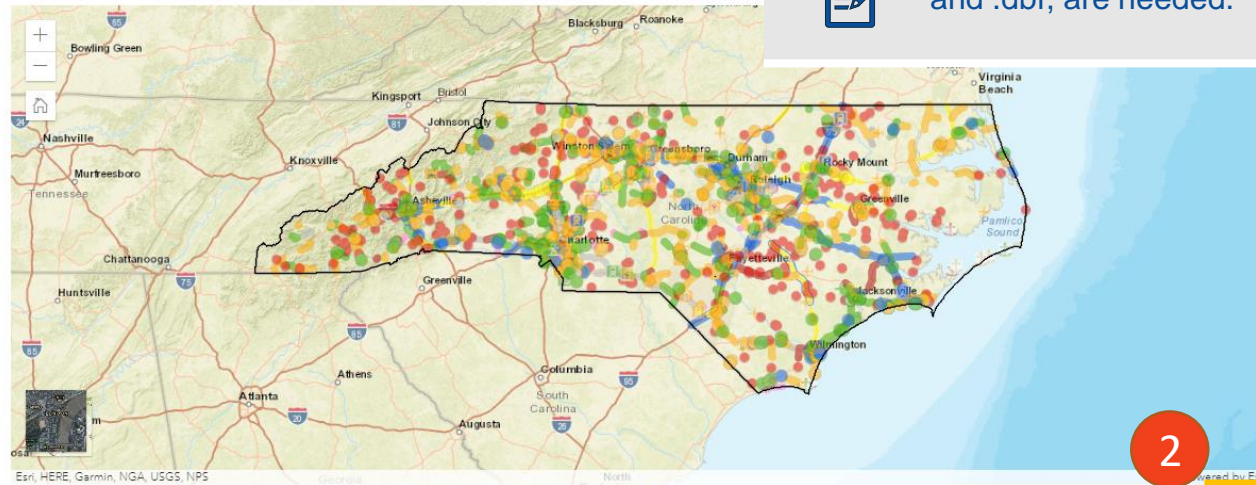
#### Your Study Area should:

1. Be a shapefile that is zipped up (.zip)
2. Be a polygon, line or point
3. Contain only 1 record
4. Be less than 10 square miles area for a Polygon
5. Be less than 10 miles in length for a Line
6. Include projection information

1

**Upload Zipped Shapefile**

Back



2

Next

2.2 To **Upload a Study Area**, click **Upload Zipped Shapefile** and select a zipped folder of a premade shapefile and it's associated files.

1

2

To continue, select **Next**.



Note the study area size requirements listed on the left side of the page.



Remember, for a complete shapefile, a .shp, .shx, and .dbf, are needed.





### Upload a Study Area

1

#### Your Study Area should:

1. Be a shapefile that is zipped up (.zip)
2. Be a polygon, line or point
3. Contain only 1 record
4. Be less than 10 square miles area for a Polygon
5. Be less than 10 miles in length for a Line
6. Include projection information

Upload Zipped Shapefile

Back



2

Next

2.3 Once the shapefile is uploaded, the map will display your study area.

1

To continue, select **Next**.

2





- 3.1 To screen by drawing a new study area, the user will first need to select the **Draw Study Area** button.



This option is useful to screen the area near a project where a formal study area has not been developed or the GIS files are not available by the user.

## Welcome to the Project Development Screening Tool

In order to screen a project study area, you need to complete a few steps:

1. Build Your Study Area
2. Buffer Your Study Area (optional)
3. Select Data to Screen
4. View, Download, and/or Share Your Screening Report

To begin: How would you like to build your Project Study Area?

By Project ID

Select if you know your STIP or SPOT ID for the project you are screening.

Upload Study Area

Select if you have a study area boundary in .zip format.

Draw Study Area

Select if you would like to build your study area using the draw tool.



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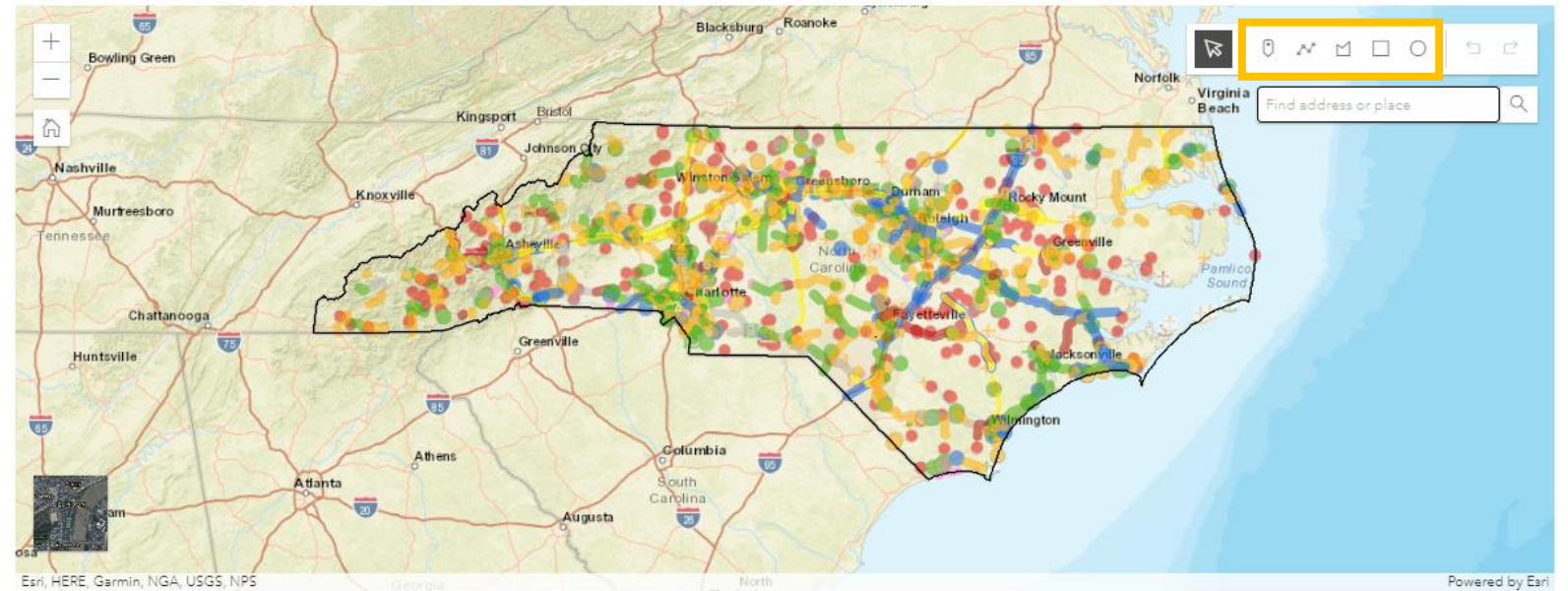


3.2 To **Draw a Study Area**, choose from the **point**, **line**, and **polygon** tools in the top right corner, and draw your study area by clicking on the map.



Continue to the next slide for tips on drawing the study area.

Use the draw tool to build your study area by drawing a polygon, line, or point. To begin, select one of the tools and start drawing on the map. Polygons or lines can be completed by double clicking. You will be able to add a buffer in the next step if you wish to.

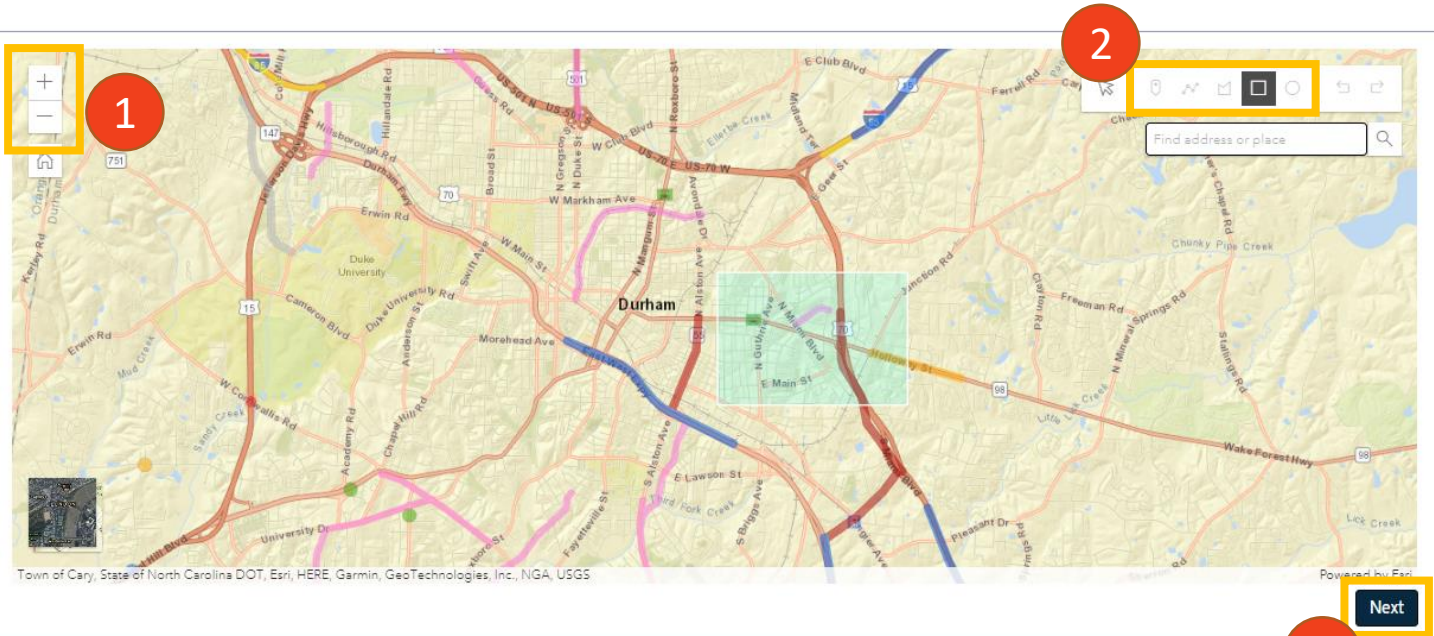


Back

Next








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3.3 For more precision, use the Zoom In “+” button and pan using your mouse.

1

The study area can be a point, line, or polygon.

- Use the  icon to create a point.
- Use the  icon to create a line.
- Use one of the    icons to create a polygon.

2

3

To continue, click **Next**.



Once the study area is drawn, click on the shape once to move or resize the entire shape. Or double click on the shape to be able to adjust individual nodes. Deselect the area to move forward.



To delete the area and start over, use the  button to select the shape, then click “Delete” on the keyboard.



TIP: Double-click to end drawing.



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# Advancing Transportation through Linkages, Automation, and Screening (ATLAS) Training Courses

## Select GIS Layers to Screen

- Select Template Option
  - Apply a Buffer
- Select Layers to Screen
- Build Screening Report

After identifying your study area, you will select GIS layers to screen. This is done through what is called a “template” in the Screening Tool. After a template is identified, you have the option to apply a buffer, and then modify the GIS layer selection.

- [Select or create a template](#)
- [Apply a buffer \(if desired\)](#)
- [Select layers to screen](#)

0.1 This section picks up after the study area has been screened. To continue, select the type of template you'd like use:

1. [Create New Template](#)
2. [Use DOT Template](#)
3. [Use My Saved Template](#)



You will have the option to save your own template, after you've selected your layers and built your screening report.

Select if you want to build your screening from scratch.

- Create New Template
- Use DOT Template
- Use My Saved Template

Back

Next



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Templates are used as frameworks to guide the selection of GIS layers during the screening process. There are three template options:

- [Create new template](#)
- [Use DOT template](#)
- [Use my Saved Template](#)

[Screening Home](#) » [Screen By Project ID](#) » [Screening Settings](#)

### Screening Settings

Select if you want to build your screening from scratch.

- Create New Template
- Use DOT Template
- Use My Saved Template

Back

0.2 Within the **ATLAS Screening Tool**, you can create and save your own templates, with unique layers based on the project at hand. When a template is saved, it can be used again in the future, and is available as a **Saved Template**.

The NCDOT has developed a set of templates for users to access that are focused a specific process or resource. This list is continually growing. Some DOT templates include:

- Merger Pre-screening
- Recreation 4(f)
- Historic 4(f)
- Section 6(f)
- Clean Water Act
- CAMA Resources
- Hydraulics PDR
- Hydraulics SMP
- SCM Screening Template



Screening Home » Screen By Project ID » Screening Settings

## Screening Settings


1 Select if you want to build your screening from scratch.

- Create New Template
- Use DOT Template
- Use My Saved Template

Back 2 Next

1.1 To use the Screening Tool without using an existing template, select **Create New Template**.

2 Click **Next**.

 Use **Create New Template** when you want to select GIS layers yourself, starting with the full list of available layers rather than starting with a template previously developed by you (“Saved Template”) or NCDOT (“DOT Template”).

2.1  
**1** To use a DOT Template, select the **Use DOT Template** option on the left side.

**2** Under the drop-down menu to the right, select the template needed for the project. Information about each is shown in the **Description** below the list.

**3** To continue, select **Next**.



Use **DOT Template** to start with preselected layers by topic. You can add or remove layers from the template once it is loaded.

### Screening Settings

Select if you want to use a screening template designed to support a specific DOT business process.

**1**  Create New Template  
 **Use DOT Template**  
 Use My Saved Template

**2** Merger Pre-Screening

Description  
The layers included help pre-screen potential resource conflicts and identify preliminary effects for Merger Screening coordination.

**3** **Next**

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### Screening Settings

Select if you want to use a screening template you designed and saved previously.

Create New Template

Use DOT Template

Use My Saved Template **1**

**2** Fran tester

Description  
ATLAS tester

Back

**3** Next

3.1 To use a template that you saved in a previous Screening, select the **Use My Saved Template** option.

**2** Under the drop-down menu to the right, select one of the templates that are previously saved. The description that was previously included will appear below the drop-down menu.

**3** Click **Next**.



Use **Saved Template** if you've previously developed and saved a group of GIS layers into your own template.

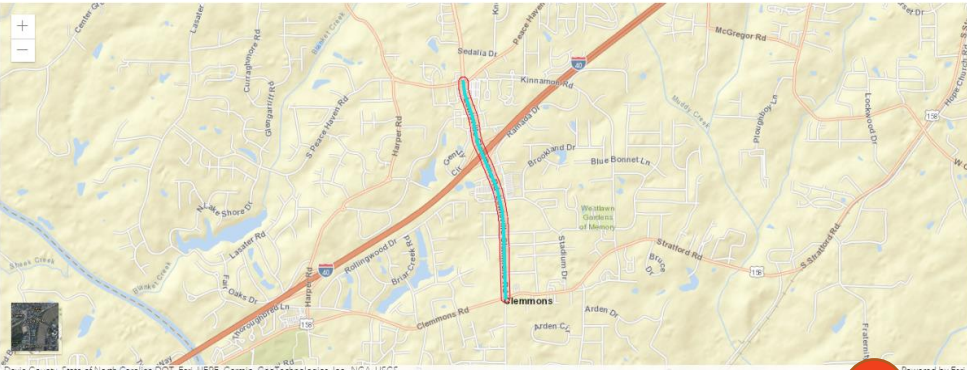


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## Apply a Buffer

Buffers are required for point and line features, and may be no more than 2 miles. Buffers are optional for polygon features.

**1** Distance   
Unit



**2**

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4.1 Once you've selected a template method, the next step is **Apply a Buffer**.

**1** Buffers are required if your study area is a point or line and is optional if your study area is a polygon.

To **Apply a Buffer**, enter the desired buffer distance in the **Distance** box, select the desired **Unit** from the drop-down menu, and select **Buffer**.

**2** To continue, select **Next**.

 You cannot enter "0" in the buffer distance, but you can leave it blank for a polygon.

## Select Layers to Screen

Use the check boxes to add layers to your project screening. Click the layer name to preview the layer on the map, view layer information, or set sub-report fields for specific layers.

**1** Search by keyword

**2**  Community

**3** Next

5.1 You can add or remove layers if you have started with a template or are creating a new template. To add layers, the user can either **Search by keyword** in the search box or scroll through the layer drop-down menus.

2 Check the box next to each category or layer wanted in your screening. Click the **+** to expand the category to view individual layers within each category.

3 When you've selected all of your desired layers, click **Next**.



When selecting layers, opt for fewer selections when possible. Selecting all the human and natural environment layers at the same time will cause delays in processing and may result in some layers timing out as they are pulled from their host servers.



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Layer Information

**Layer Name:** NC Colleges and Universities  
**Layer Description:** Colleges and Universities in North Carolina. The Colleges and Universities dataset is composed of any type of Post Secondary Education such as: colleges, universities, technical schools, trade schools, business schools, satellite (branch) campuses, etc. that grant First Professional, Associate, Bachelors, Masters, or Doctoral degrees.  
**Org Name1:** NC Center for Geographic Information and Analysis (CGIA)  
For more information [Click Here](#)

OK

Set fields for 'NC Colleges and Universities'

- onemap\_sdeadmin\_colluniv\_area
- id
- metlnkid
- featype
- secclass
- name
- phone
- address
- address2
- city
- state
- zip
- zip4

Save

5.2 When selecting layers, the **Layer Information** button displays layer details including data owners and web service links. Select a layer, then select **Layer Information**.

The **Set Field** button is used to summarize the data for a specific layer by a certain attribute (up to two).

## Select Layers to Screen


Use the check boxes to add layers to your project screening. Click the layer name to view the layer on the map, view layer information, or set sub-report fields for specific layers.

Layer Information Set Field

Search by keyword

- Human Environment
- Boundaries
- Community
  - Adult Education and Training Facilities
  - NC Colleges and Universities
  - NC DEQ DWR Animal Operation Permits
  - NC DHHS Office of EMS Community Colleges
  - NC Hospitals

Back Next



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Powered by Esri

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## Build Your Screening Report

Enter Report Name and Description of your choice. Then, select Screen Your Project.

Report Name	tester
Report Description	Optional
STIP ID	U-6004
SPOT ID	H090522

[Back](#) [Screen Your Project](#)

6.1 To **Build the Screening Report**, add a **Report Name**. You can also choose to add a **Report Description** (optional). This will be shown at the top of your screening report.

The **STIP ID** and **SPOT ID** will only be filled in if you choose “Study area by ID” instead of drawing your own.

When finished, click **Screen Your Project**.



This pop-up will appear once you select “Screen Your Project”

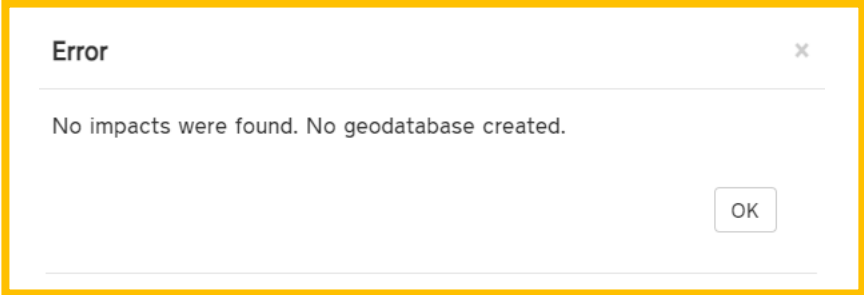
Screening Progress...

Calculating Results	0 of 7
Generating Maps	please wait...

Cancel







- 7.1 To see the results of the screening, the user can click:
- **Download Report**
  - **Download GDB**
  - **Download SHP**
  - **Download DGN**
- 
- **GDB** files are geodatabases that can store spatial and non spatial data.
  - **SHP** files are geospatial data files used for GIS.
  - **DGN** files are CAD software line data.

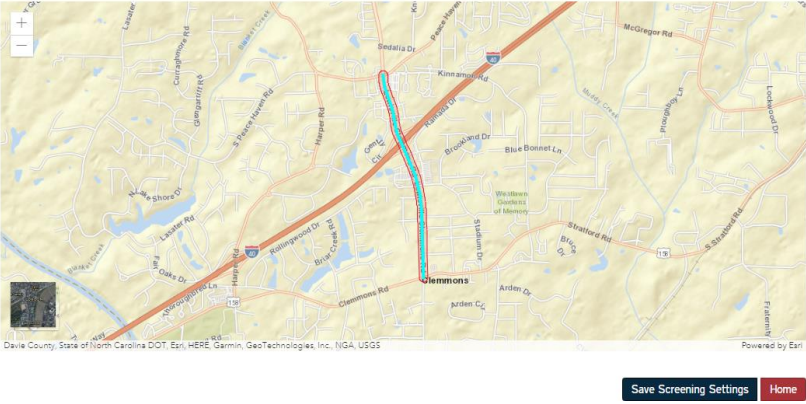
## Screening Results

Number of affected layers: 3

Download Report Download GDB Download SHP Download DGN

- Human Environment
- Community
  - NC DEQ DWR Animal Operation Permits
  - NCDOT ATLAS NC Child Care Facilities
  - NCDOT ATLAS NC Normalized Land Use
  - TVA Boat Ramps
  - NC Non-Public Schools
  - NC Multi Hazard Threat Database State Prisons
  - NCDOT ATLAS NC Adult Education and Training Facilities
  - NCDOT ATLAS NC Schools K-12

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ATLAS can time out, be sure to wiggle your mouse every few minutes if you find that your downloads are taking some time. The larger the file, the longer it'll take.

Occasionally, depending on which layers are selected, certain download types will generate errors. This occurs when layers linked to by ATLAS are temporarily unavailable. See the [Common Errors slide](#) for more information.

7.2 To save the layer selection for use in future screenings, click **Save Screening Settings** in the bottom right corner. This allows your selected layer combination to be available as a “My Saved Template” in the future.

## Screening Results

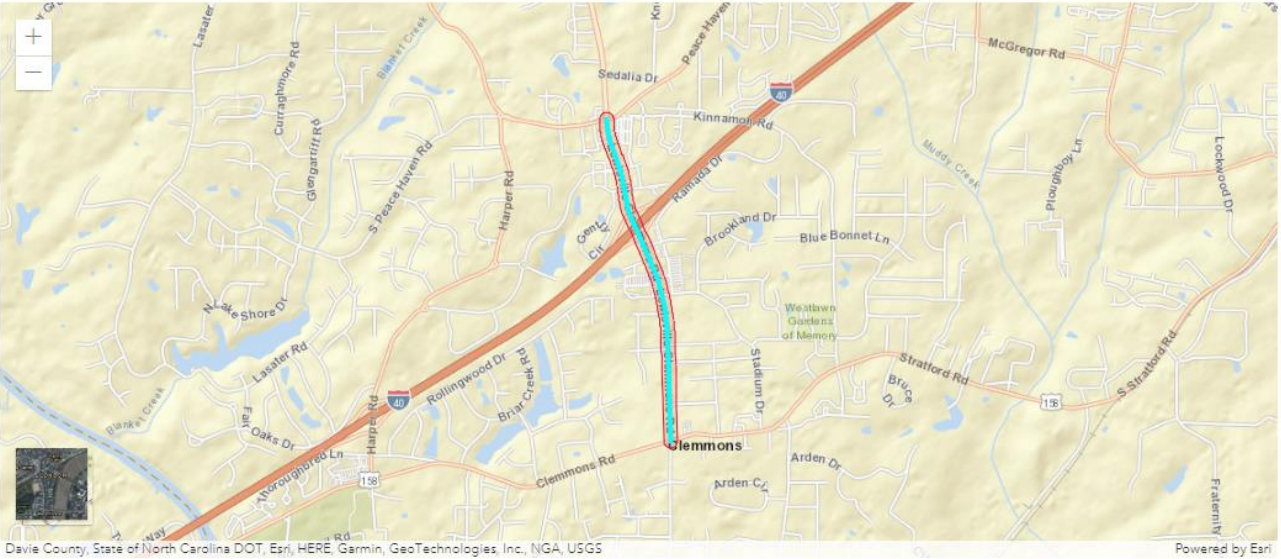
Number of affected layers: 3

To see layer information please click layer name.

[Download Report](#) [Download GDB](#) [Download SHP](#) [Download DGN](#)

- Human Environment
- Community
  - NC DEQ DWR Animal Operation Permits
  - NCDOT ATLAS NC Child Care Facilities
  - NCDOT ATLAS NC Normalized Land Use
  - TVA Boat Ramps
  - NC Non-Public Schools
  - NC Multi Hazard Threat Database State Prisons
  - NCDOT ATLAS NC Adult Education and Training Facilities
  - NCDOT ATLAS NC Schools K-12

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[Save Screening Settings](#) [Home](#)



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8.1 Because you can download various file types, your ATLAS data can be used to supplement your projects in other software that accepts the file types, such as ArcGIS.

## Screening Results

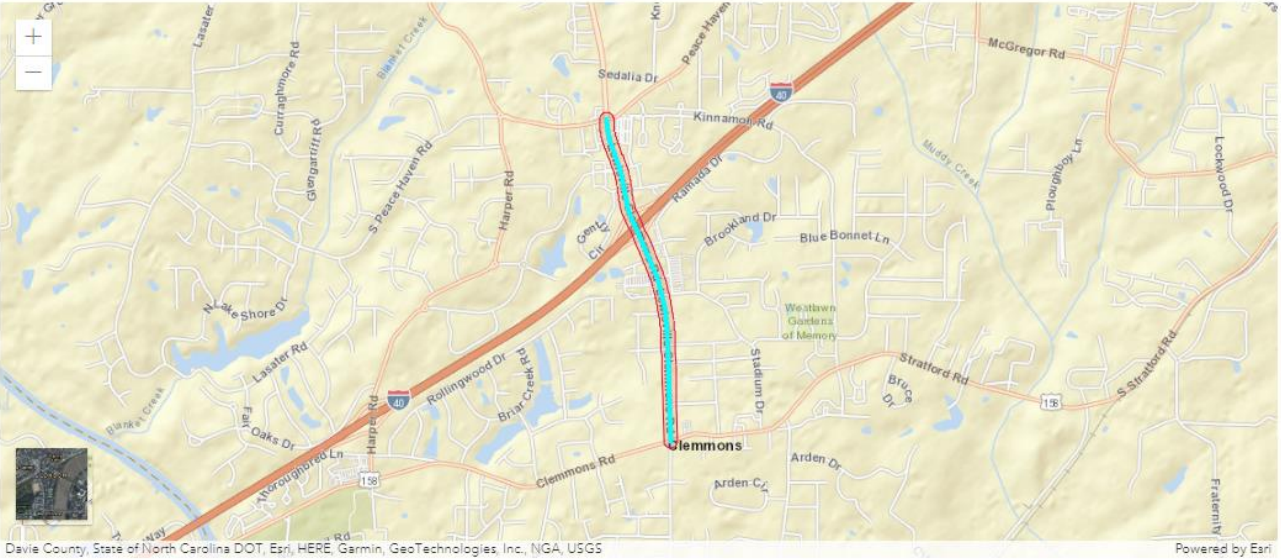
Number of affected layers: 3

To see layer information please click layer name.

[Download Report](#) [Download GDB](#) [Download SHP](#) [Download DGN](#)

- Human Environment
- Community
  - NC DEQ DWR Animal Operation Permits
  - NCDOT ATLAS NC Child Care Facilities
  - NCDOT ATLAS NC Normalized Land Use
  - TVA Boat Ramps
  - NC Non-Public Schools
  - NC Multi Hazard Threat Database State Prisons
  - NCDOT ATLAS NC Adult Education and Training Facilities
  - NCDOT ATLAS NC Schools K-12

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# Advancing Transportation through Linkages, Automation, and Screening (ATLAS) Training Courses

[Read a Screening Report](#)

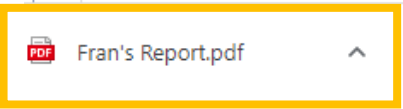
## Screening Results

Number of affected layers: 3

To see layer information please click layer name.

[Download Report](#) [Download GDB](#) [Download SHP](#) [Download DGN](#)

- Human Environment
- Community
- NC DEQ DWR Animal Operation Permits
- US DHS HIFLD Day Care Centers
- US DHS HIFLD Manufactured Home Parks
- NCDOT ATLAS NC Medical Facilities
- NCDOT ATLAS NC Places Of Worship
- TVA Stream Access Points
- Places of Interest Points



1.1 Once downloaded, your report should appear at the bottom of your webpage and in your computer's Downloads folder.

In this image, "Fran's Report.pdf" is available at the bottom of the webpage.

To open the report, click on it in either location.



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## Report Metadata

**Created by:** mlhobgoud

**Date/Time Executed:** 09/07/2022 10:39 AM

**Application version:** 1.17.0.0

### Report Disclaimer:

While the N.C. Department of Transportation strives to provide complete and accurate information, the data provided in this screening report are reported "as is." This report does not replace field data collection and data verification conducted by licensed professionals. No warranty is expressed or implied regarding the accuracy of available data for general or scientific purposes. NCDOT shall under no circumstances be responsible for any errors or omissions which may occur in these records, nor liable for any actions taken as a result of reliance upon any information contained within this web site from whatever source, or any consequences from such reliance.

### How to read this report:

**User-defined Project Study Area** = The final polygon that the user created in the Screening Tool. This study area includes any buffers the user added within the application.

**Layer Name** = Layer selected for Screening. You may click the hyperlink to access additional layer details.

**Field Name** = Calculated result for a specific field within a layer that was selected for Screening (using Set Field).

**Feature Count** = Number of unique features (points, lines, and/or polygons) from a particular GIS layer that are within or intersecting the user-defined project study area.

### Values displayed the Output Report: (N/A vs 0)

N/A: When this value is displayed it indicates that the calculation requested cannot be completed do to a limitation of the geometry. For example, you cannot calculate the area of a point.

0: When this value is displayed it means that the calculation was able to be performed with no limitations due to the input geometry, however the result was 0. For example, your study area did not overlap a hydrography feature, therefore the resulting overlap length is 0.

**Total Coverage** = Total number of linear feet (lines) or area (polygons) from a particular GIS layer that are contained within the user-defined project study area. N/A under Total Coverage refers to point layers as point layers cannot have coverage.

**Nearest Feature** = Distance from the boundary of the user-defined project study area to next closest feature (point, line, or polygon) for a particular GIS layer within the vicinity (1 mile) of the project study area boundary. Zero (0) under Nearest means there are no features in the project vicinity (1 mile buffer).

### Availability of Web Services:

The layers referenced in this report utilize web services. If any web services were unavailable at the time of the report execution, related errors are noted in the following table:

1.2 The next section on 'Report Metadata' explains in detail on how to read the Screening Report. Every report also contains a general disclaimer.

Since the Screening Tool utilizes external web services, availability of these layers could vary.

Layers that were not available for use during the Screening run will be noted in a table towards the end of the report.



This is at the end of the report; we'll go through a few of these here.



## Project Development Screening Report

This report is for high-level screening purposes only. Staff and consultants must continue to adhere to NCDOT standard operating procedures including, but not limited to, ETRACS requests and field validations.

**1**

**Report Date:** 11/29/2022

test

N/A

**County:** Lenoir

**Division:** 2

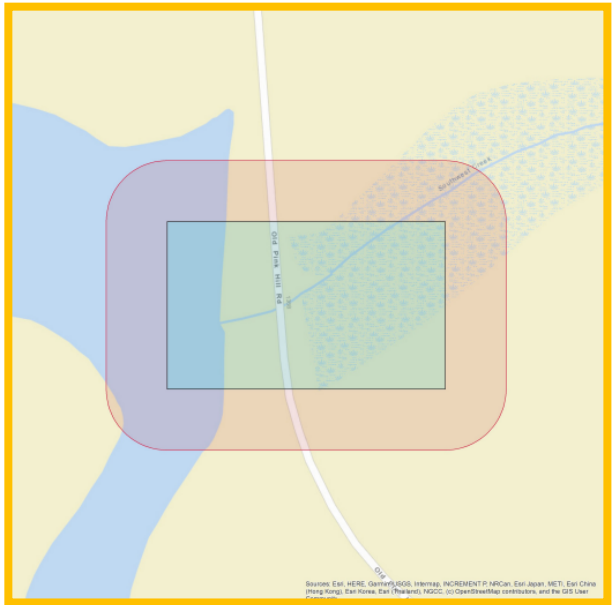
**2**

**Study Area Size:** 18.5 Acres

**Buffer Size:** 200 Feet

User Customized Screening

**4**



A map showing a study area (green rectangle) and a buffer (orange rounded rectangle) overlaid on a landscape with water bodies (blue) and roads (white). A red circle with the number 4 is positioned to the right of the map.

**3**

**EPA Level III Ecoregion:** Southeastern Plains

**EPA Level IV Ecoregion:** Rolling Coastal Plain

**HUC8:** 03020202

**Riparian Buffer:** Neuse

**CAMA:** No


**Airport within 4 miles:** No

1.3 The top of the screening report includes the date, report name, description (if one was entered during [the Build Your Screening Report step](#)), and county and NCDOT division of your study area.

2 The middle of the report lists the study area size and buffer size entered by the user (if applicable).

3 The bottom of the report lists the EPA ecoregion, hydrological code (HUC), if it is in a Coastal Act Management Area (CAMA), if riparian buffer laws apply based on the river basin, and if there is an airport within 4 miles.

4 The report contains a map showing the location of the study area and buffer.

 The layers shown in the ATLAS Screening Tool will not display on this map, but data is on following pages of the report and the graphic files are available in the downloaded GIS/DGN files.

Human Environment			
Transportation	Feature Count	Total Coverage	Nearest Feature
<a href="#">NCDOT PBIN Proposed Bike Facility Lines</a>	4	27367.9 ft	1889.3 ft
<a href="#">NCDOT PBIN Existing Bicycle Facility Lines</a>	0	0	0
<a href="#">NCDOT PBIN Proposed Bicycle Facility Points</a>	0	0	0
Natural Environment			
Hydrography	Feature Count	Total Coverage	Nearest Feature
<a href="#">NCDOT ATLAS NC Hydrography</a>	24	26073.5 ft	36.5 ft
Threatened and Endangered	Feature Count	Total Coverage	Nearest Feature
<a href="#">NC Natural Heritage Element Occurrences</a>	10	309.6 ac	60.3 ft

1.4 The next page of the report lists all of the layers screened, a count of features intersecting the study area, total coverage of features within the study area, and the distance to the nearest feature from the study area are identified for each layer.

Every layer is also hyperlinked to its layer details page. This pop-up is an example of what you get when you select the hyperlink.

If sub-reports exist, then these fields will show up under the appropriate layer. And, will pop up with the report PDFs.

Sub-reports offer additional information that supplement the screening report. They are available if the user selects specific layers to be screened against. Currently, there are Hydrography and Natural Heritage Data sub-reports.

Layer Name	NCDOT PBIN Existing Bicycle Facility Lines
Alias Name	N/A
Description	This map service represents the NCDOT Pedestrian and Bicycle Infrastructure Network (PBIN). It includes data on existing and proposed bicycle and pedestrian facilities throughout North Carolina. The initial data was collected by NCDOT partners at the North Carolina State University- Institute for Transportation Research and Education (ITRE). The PBIN data includes current and proposed bicycle and pedestrian facilities, arranged in twelve layer classes: existing and proposed pedestrian facilities, bicycle facilities, and shared use path facilities in both polyline and point formats. The map service is configured to draw features when zoomed in to 1:250000. The PBIN data is not comprehensive, however, and updates and additions to the data are ongoing. Municipalities are encouraged to submit their data, in a standardized format compatible with NCDOT's existing schema.
Owner	NCDOT, Division of Bicycle and Pedestrian Transportation (IMD)
Web Service	<a href="https://gis11.services.ncdot.gov/arcgis/rest/services/NCDOT_PBIN/NCDOT_PBIN/MapServer/2">https://gis11.services.ncdot.gov/arcgis/rest/services/NCDOT_PBIN/NCDOT_PBIN/MapServer/2</a>
Disclaimer	This application does not replace project screening and reviews conducted by licensed professionals.

Get Field Information

Human Environment	1	2	3
Community	Feature Count	Total Coverage	Nearest Feature
<a href="#">NCDOT ATLAS NC Normalized Land Use</a>	23	58.0 ac	77.0 ft
<a href="#">NCDOT ATLAS Places of Interest Lines</a>	1	2511.8 ft	N/A
<a href="#">NCDOT ATLAS Places of Interest Polygon</a>	1	0.1 ac	2198.4 ft
<a href="#">NC Colleges and Universities</a>	0	0	0
<a href="#">NC DEQ DWR Animal Operation Permits</a>	0	0	0
<a href="#">NC DHHS Office of EMS Community Colleges</a>	0	0	0
<a href="#">NC Hospitals</a>	0	0	4289.5 ft
<a href="#">NC Multi Hazard Threat Database Nuclear Power Plants</a>	0	0	0
<a href="#">NC Multi Hazard Threat Database State Prisons</a>	0	0	0
<a href="#">NC Non-Public Schools</a>	0	0	0
<a href="#">NC Public Libraries</a>	0	0	1425.1 ft
<a href="#">NCDOT ATLAS NC Adult Education and Training Facilities</a>	0	0	267.0 ft
<a href="#">NCDOT ATLAS NC Child Care Facilities</a>	0	0	521.5 ft
<a href="#">NCDOT ATLAS NC Medical Facilities</a>	0	0	248.5 ft
<a href="#">NCDOT ATLAS NC Places Of Worship</a>	0	0	561.9 ft
<a href="#">NCDOT ATLAS NC Schools K-12</a>	0	0	1389.0 ft
<a href="#">North Carolina Public Schools</a>	0	0	1207.6 ft
<a href="#">Places of Interest Points</a>	0	0	248.5 ft
<a href="#">TVA Boat Ramps</a>	0	0	0
<a href="#">TVA Stream Access Points</a>	0	0	0
<a href="#">US DHS HIFLD Day Care Centers</a>	0	0	473.1 ft
<a href="#">US DHS HIFLD Manufactured Home Parks</a>	0	0	0
<a href="#">US HUD Public Housing Building</a>	0	0	0

1.5 **Feature Count** refers to features within the study area, including points even if though the don't appear in coverage.

**Total Coverage** refers to the total of each resource in linear feet or acres that are contained within the buffered study area. Point features, because they lack length, show up as 0.

**Nearest Feature** is defined as the distance from the edge of the buffered project study area (once you add a buffer, it becomes a part of the study area) to the next closest feature (point, line, or polygon) for a particular GIS layer within a 1-mile vicinity of the study area boundary.

Zero (0) under 'Nearest Feature' means there are no features in the vicinity (1 mile buffer)."



The layers shown in the ATLAS Screening Tool will not display on this map, but data is on following pages of the report and the graphic files are available in the downloaded GIS/DGN files.





Geoprocessing service unavailable:

Geoprocessing services, such as buffers, are integral to the ATLAS tools. If you receive this error, it may mean that it is not running or it is temporarily overloaded. The ATLAS team is working with NCDIT to quickly identify broken geoprocessing services so the issue can be resolved and identify longer-term solutions that will make this error less likely to occur. Try to perform the same action again and if the error reoccurs, please email [ATLAS@ncdot.gov](mailto:ATLAS@ncdot.gov).

Token required

This indicates that the layer you are attempting to access is locked and you need specific permissions to access it. The ATLAS team is working with external agencies to make layers consistently available to all users. Some layers, such as T&E and Archaeology, are intentionally secured. If you have questions about these errors, please contact the ATLAS team at [atlas@ncdot.gov](mailto:atlas@ncdot.gov).

Service unavailable:

This indicates the web service containing the layer is not currently accessible. This may be a temporary or more permanent issue. The ATLAS team is working with NCDIT and agency partners to enhance the stability of externally sourced layers and to quickly identify and address layers that are not working. Try to add the layer(s) again and if the error reoccurs, please email [ATLAS@ncdot.gov](mailto:ATLAS@ncdot.gov).

2.1 At times, the ATLAS Screening tool can result in errors. These errors can generally be solved easily.

Three of the most common errors include:

- Geoprocessing Service Unavailable
- Token Required
- Service Unavailable

The table on the left lists common errors and their meanings.

For any errors, feel free to reach out to [ATLAS@ncdot.gov](mailto:ATLAS@ncdot.gov).



# SC.00

## A Guide to the ATLAS Screening Tool

You have now completed this module.

For additional questions, email  
[ATLAS@ncdot.gov](mailto:ATLAS@ncdot.gov)

### Module SC.00 Reference Table

#	Step	Slides
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3	Select GIS Layers to Screen	28-40
4	Read a Screening Report	41-47