

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

# SE.00 A Guide to the ATLAS Search Tool

# Introduction

The ATLAS Search tool is used to search or download data related to project development. Locate and analyze a variety of data layers from multiple sources at once.

After logging in, you will have the option to use several different map functions.

Click on the hyperlinks in the list to the right to jump directly to one of these topics. These individual topics are also available as separate modules in the training library, indicated by the module number in parentheses.

To gain access to ATLAS or for questions, contact <u>ATLAS@ncdot.gov</u>.



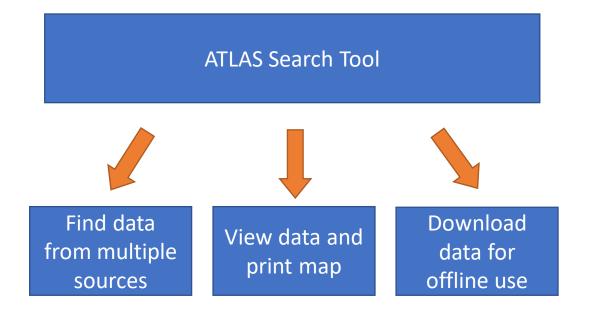
In this module, the user will gain an understanding of how to:

- ► Log into ATLAS
- Overview of the Search Tool
  - Zoom Into Area of Interest
  - Select Layers
  - Add Labels/Images and Measure
  - Download Layers or Print Map

Tip: The Search Tool will time out after a period of inactivity. That may result in the map freezing, or some of the buttons becoming inactive. If this occurs, restart the Search Tool.



# 0.0 Search Tool Uses

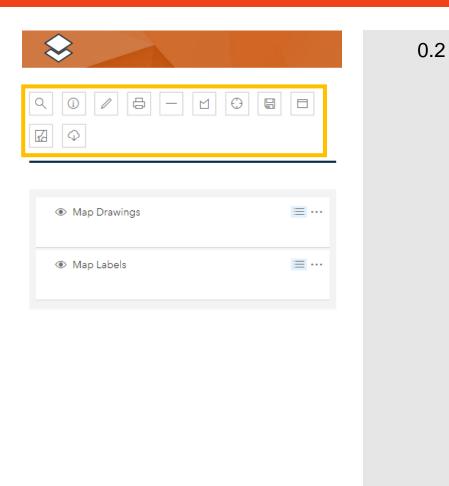


- 0.1 The ATLAS Search Tool has 3 primary high-level functions:
  - 1. Find GIS data from multiple sources in one place
  - 2. View data on map
  - Download multiple data sources at once in GDB, SHP, and/or DGN format

The ATLAS Search tool is useful when preparing for scoping, completing a technical report, or compiling an environmental document. For any data needs, the Search tool eliminates the need to look through various webpages and source agencies.



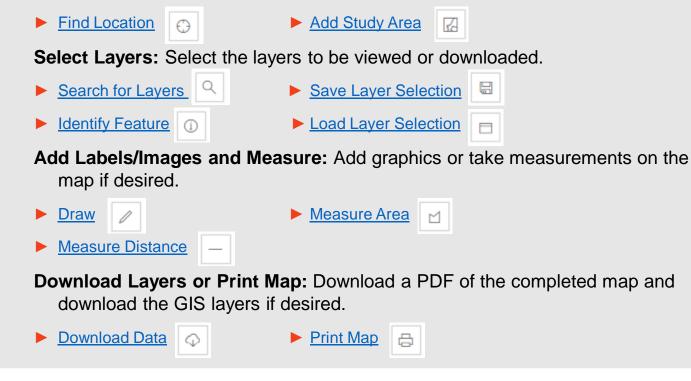
# 0.0 Search Tool Uses (continued)



Return to Introduction Slide

The Search Tool provides a variety of different functions that can be used together or individually. There are four primary actions that can be done in any order. Click on the hyperlinks below to jump to slides within this training module for each, or advance to the next slide to review them all.

**Zoom Into Area of Interest:** Find an area by downloading or creating a study area, or simply zooming into the map.





A Guide to the ATLAS Search Tool



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

# How to Log into ATLAS Search Tool

- 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
- <u>Troubleshooting</u> issues

Return to Introduction Slide

- 0.1 There are four ways to log in to access the ATLAS Screening Tool:
  - 1. <u>Via Direct URL</u>: This the easiest and quickest way to access the ATLAS Screening Tool.
  - 2. <u>Via Connect Home Page</u>: This is useful if you already find yourself working within the Connect page and want to jump into the Screening Tool.
  - 3. <u>Via Connect Preconstruction Home</u>: This is useful if you are already logged into the Connect Preconstruction site, but are not on a specific project page.
  - 4. <u>Via Project Site</u>: When working within projects on the Connect project site, easily jump into the Screening Tool.



6

## Accessing ATLAS Via Direct URL 1.0

Connect N business partn							🕈 Home	🖻 Help	🚱 Site Map
Doing Business	Bidding & Let	tting Proje	cts	<u>Resources</u>	Local Governn	nents	Search		9
Asset Management	Environmental	Geotechnical	GIS	Hydraulics	Materials & Tests	Photogrammetry	Contract Standards		

## Project ATLAS

**Resources for using ATLAS** 

♠ ► Connect NCDOT ► Resources ► Environmental ► Environmental Analysis ► Pr	oject Atlas
ATLAS News	Training Resources
ATLAS Newsletters	ATLAS Workbench Quick Logo TipSheet
ATLAS Release Notes	ATLAS External Workbench - Requirements Workshop 11-10-
ATLAS Tools	ATLAS Tip Sheets
ATLAS Data Search Tool	ATLAS RPO-MPO Workshop 4
ATLAS Data Screening Tool	Training Library

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	Ρ
Training Library	

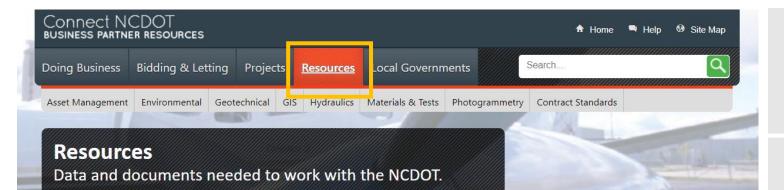
- When accessing ATLAS via direct link, 1.1 you'll follow this URL: https://connect.ncdot.gov/resources/Env ironmental/EAU/Project-Atlas/Pages/default.aspx
- From there, you'll select the ATLAS 1.2 Data Search Tool or ATLAS Data Screening Tool in the "ATLAS Tools" section.



Tip: Bookmark this URL for easier future access



# **2.0** Accessing ATLAS Via Connect Home Page



♠ ► 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

Return to Introduction Slide

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)

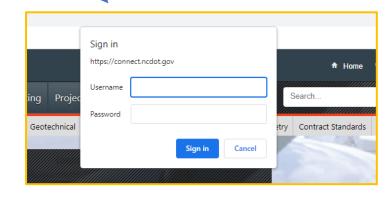
For CADD Consultants Technical support, problem solving, and engineering automation with CADD

Location & Surveys

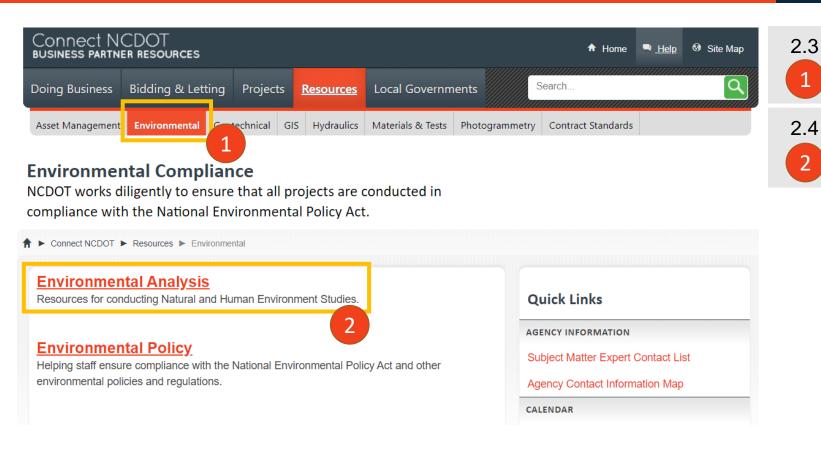
- 2.1 Begin by accessing the **Connect Home Page** URL: <u>https://connect.ncdot.gov/Pages/default.</u> <u>aspx</u>
- 2.2 Then, click the **Resources** button in the header.

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.



# 2.0 Accessing ATLAS Via Connect Home Page (continued)



- Next, click **Environmental** in the grey bar at the top of the screen.
- Then select **Environmental Analysis** from the left side.



# 2.0 Accessing ATLAS Via Connect Home Page (continued)



### **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 ->

**Return to Introduction Slide** 

#### 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**.

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





## Project ATLAS

Resources for using ATLAS

Return to Introduction Slide

♠ ► Connect NCDOT ► Resources ► Environmenta	Environmental Analysis   Project Atlas
ATLAS News	Training Resources
ATLAS Newsletters	ATLAS Workbench Quick Logon TipSheet
ATLAS Release Notes	ATLAS External Workbench - Requirements Workshop 11-10-2021
ATLAS Tools	ATLAS Tip Sheets
ATLAS Data Search Tool	ATLAS RPO-MPO Workshop 4-11-22
ATLAS Data Screening Tool	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.



## **Accessing ATLAS Via Preconstruction Home** 3.0

Division 08

## 

Preconstruction information for NCDOT Highway and Bridge projects. Send any problems or concerns to preconstructionhelp@ncdot.gov. Send ProjectWise issues to dot.pwsupport@ncdot.gov.

### ♠ ► 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

Find a Site					
u-6004					
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					

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



## Accessing ATLAS Via Connect Project Site 4.0

Division 08

## 

Preconstruction information for NCDOT Highway and Bridge projects. Send any problems or concerns to preconstructionhelp@ncdot.gov. Send ProjectWise issues to dot.pwsupport@ncdot.gov.

### ♠ ► 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

Return to Introduction Slide

➔ ORD Working Documents & Action Items

Find a Site u-6004 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					

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



Roadway Design

Roadway Design Project Management

Utilities

Utilities

Right of Way

Right of Way

Project Management

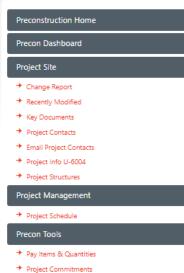
Location and Surveys

Location and Surveys

Location and Surveys

Location and Surveys

#### ♠ ► Division 09 Preconstruction ► U-6004



- 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

everything is uploade	will be locked approximately 7 weeks prior to letting to ensure there are no changes during plan checking and finaliz∉ ad and marked before locking. This includes final sealed plans, final sealed special provisions, labeling key document additions needed after this date, please contact the Contract Office for central let projects finalplans@ncdot.gov, or t
General	
Disciplines	
Collaboration	
LET Preparatio	n
Post LET	
ATLAS Tools	
ATLAS Data S  Use the Data S  ATLAS Screen	earch to monitor project status, submit your final project documents, and upload spatial deliverables. earch Tool Search Tool to access GIS datasets from multiple sources in one single search interface. ing Tool ning Tool to analyze a project study area for natural and human environment impacts based on key GIS datasets.
Consulting Firn	n Access Summary
Role Utilities	Firm Name CH Engineering PLLC

Michael Baker Engineering Inc

Michael Baker Engineering Inc

Michael Baker Engineering Inc

Michael Baker Engineering Inc

Wadelynn Geospacial LLC

O. R. Colan Associates LLC

Mattern & Craig Inc

Pinecone Transportation Professionals PLLC

Pinecone Transportation Professionals PLLC

Pinecone Transportation Professionals PLLC

Pinecone Transportation Professionals PLLC

NV5 (formely CALYX Engineers and Consultants Inc)

4.2 1. In the menu on the left side, under the ATLAS Tools section at the bottom of the list.

1

From the bottom tab on the right 2. 2 side, under the ATLAS Tools tab.

> A Guide to the **ATLAS Search Tool**

# **5.0** Logging Into ATLAS

NCID	Tips	
	NCID	
	Usemame	
	Password	
	NCID Login	
	Forgot Username Forgot Password Unlock Account	
Need He	elp?	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.

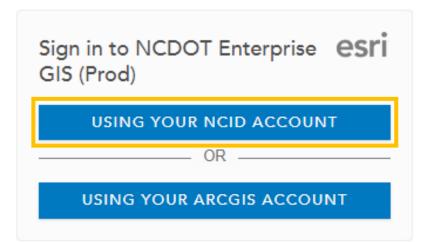


Privacy and Other Policies

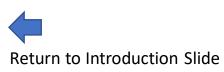
**Return to Introduction Slide** 

Contact Us

15



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

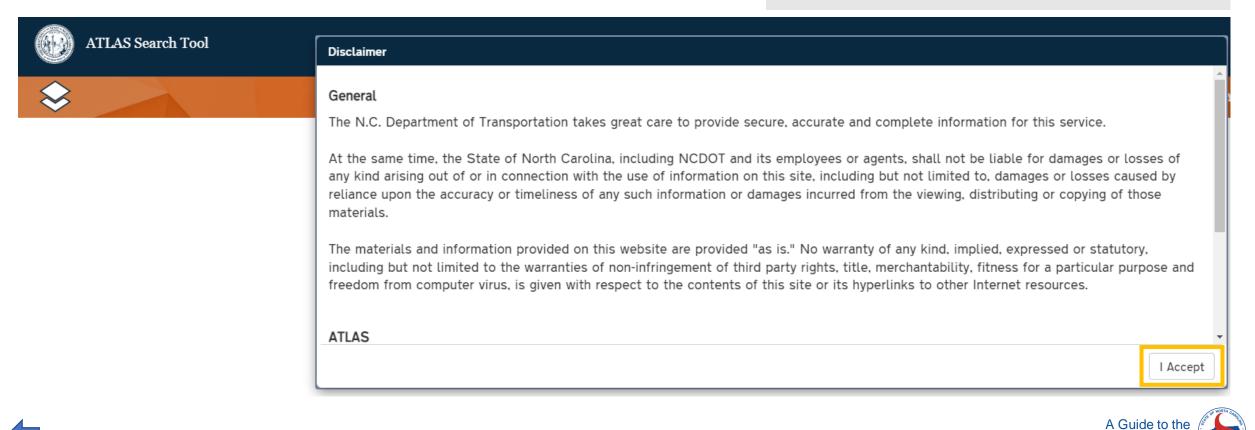




5.4 When prompted with the **Disclaimer**, click **I Accept** and you're in!

ATLAS may automatically log out after a period of inactivity, or will stop operating correctly.

**ATLAS Search Tool** 





# 6.0 Troubleshooting Issues

NCID Tips	NCID Tips			
4   	NCIQ VCID			
	Usemame			
	Password			
	NCID Login			
	Forgot Username Forgot Password Unlock Account			
Need Help?		Register!		
Privacy and C	- Other Policies	Contact Us		

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



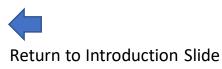
6.2 If you're having issues within your ATLAS account, you can follow the **Help** function found on the header or send an email to **ATLAS@ncdot.gov**.



# 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 with your questions.







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

# **Overview of the Search Tool**

# **1.0** Overview of Header



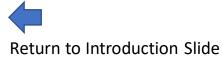
1.1 The header houses four functions:

2

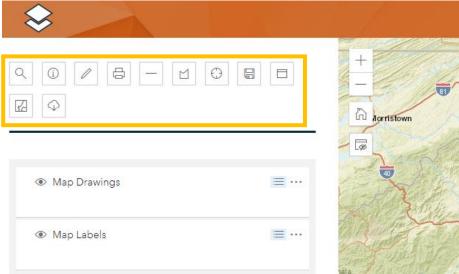
3

- ATLAS Screening Tool icon: Allows users to access the ATLAS Screening Tool; this will open in a new window
- About: Takes users to a comprehensive page describing ATLAS, its tools, and previous updates
- Additional Resources: Leads to a page of linked resources and their descriptors for additional information
- Help: A link to the email to use for any questions or problems you may have: <u>ATLAS@ncdot.gov</u>





# 2.0 Search Tool Uses



The remaining slides in this presentation will walk you through each of the functions listed to the right.

**Return to Introduction Slide** 



- 2.1 The following slides provide detail on each of the following functions, which can be done in any order:
  - **Zoom Into Area of Interest:** Find an area by downloading or creating a study area, or simply zooming into the map.
  - Find Location
    Add a Study Area
    Select Layers: Select the layers to be viewed or downloaded.
  - ► <u>Search for Layers</u> ► <u>Save Layer Selection</u>
  - Identify Feature ①
- ► Load Layer Selection

Add Labels/Images and Measure: Add graphics or take measurements on the map if desired.

▶ <u>Draw</u>

Measure Area

Measure Distance -

**Download Layers or Print Map:** Download a PDF of the completed map and download the GIS layers if desired.

Download Data Q





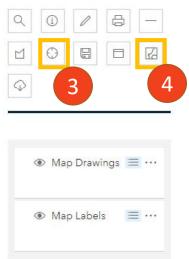
믑



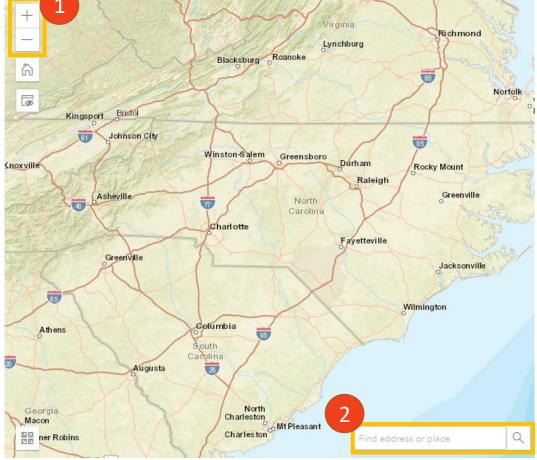
# Advancing Transportation through Linkages, Automation, and Screening (ATLAS) Training Courses

# **Zoom Into Area of Interest**

# **0.0** Before We Begin



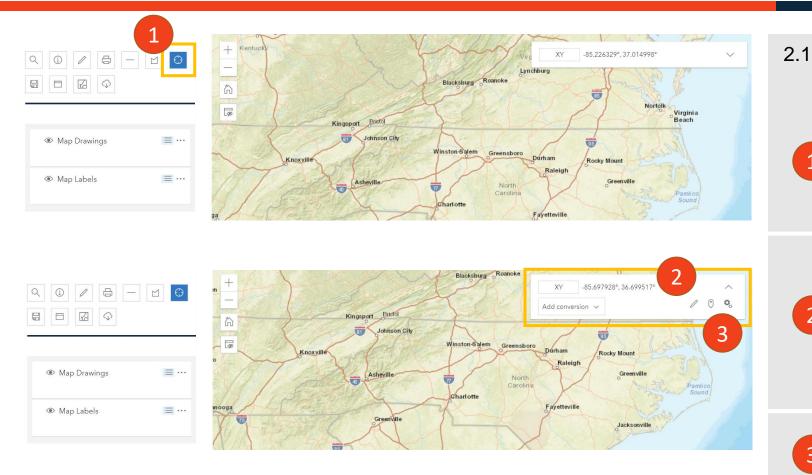
Return to Introduction Slide



There are four ways to zoom into your 0.1 area of interest: Zoom In + 1 Zoom Out \_\_\_\_ ► Location Search Find address or place Q 2 Use Coordinates 3 More information about how to use the Coordinates is on the following Find Location slide. Add Study Area 30 4 More information about how to build or import a study area is on the following Add a Study Area slide.



# **1.0** Find Location



Click the **Find Location** icon to find the coordinates of any point on the map.

Click the icon, then move anywhere on the map to see its location. The XY coordinates will be displayed on the top right corner of the map.

To zoom to a specific location, click on the button on the far right side of the menu, then click on the button. Check the box next to "Go to location," enter the coordinate pairing, and click "Enter" on your keyboard.



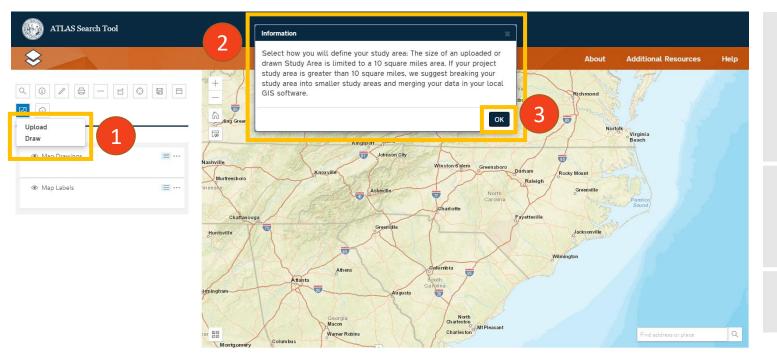
2

1

Click on the D button to convert your XY coordinates to a different unit.



# 2.0 Add a Study Area



2.1 When adding a study area, you can choose to Upload or Draw your area.

More details on both options are on the following slides.

Once you click the map icon, you'll see an **Information** box that notes your study area is limited to 10 square miles.

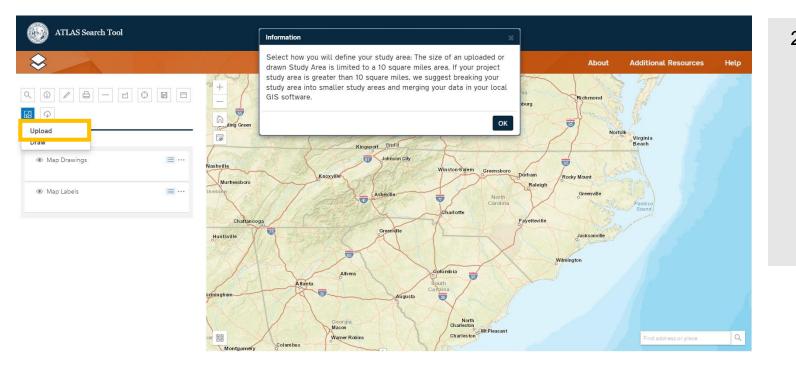


2

Clicking **OK** will close this window.



# 2.0 Add a Study Area (continued)



2.2 To **Upload a Study Area**, you'll be brought to a navigation window, which you can use to click through your computer's files and select a map of the study area. This file must be a zipped shapefile.

**Reminder:** Your study area must be 10 square miles or less.



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# 2.0 Add a Study Area (continued)



To **Draw a Study Area**, you can choose between a custom polygon, or a standard rectangle or circle.

Once you choose a shape, draw your study area.

**Reminder:** Your study area must be 10 square miles or less.



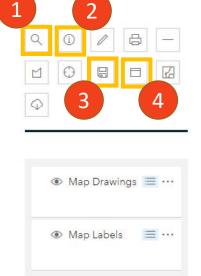


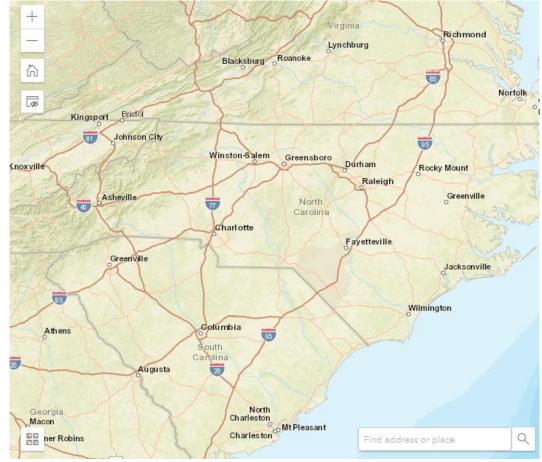


# Advancing Transportation through Linkages, Automation, and Screening (ATLAS) Training Courses

**Select Layers** 

# **0.0** Before We Begin



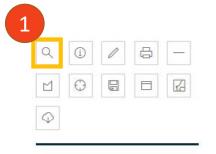


0.1 There are four options in the layer selection function. More information about these options are on the following slides. Search for Layers Q 1 Identify Feature ① 2 Save Layer Selection 3 Load Layer Selection 4





## Search for Layers 1.0





- Use this tool to add layers to your map. 1.1 When you click on the  $\bigcirc$ , a new menu will open.
  - Data can be searched by category or key word.

The layers are organized into two main categories: Human Environment and Natural Environment.

More information about the search options are in the following slides.

Click Back to Map at any time to see the selected layers on the map. You can switch back and forth between the map and layer selection.

Back to Map

4

1

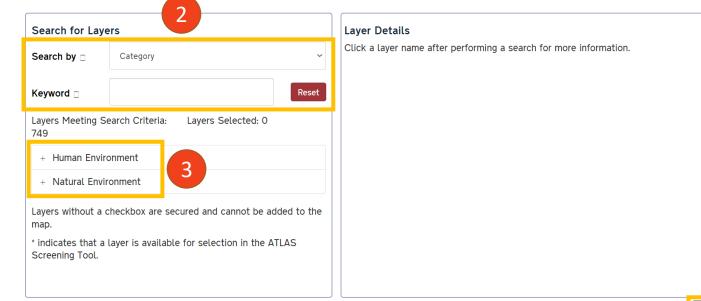
2

3

4

Layers without checkboxes are secured and cannot be added to the map.







Search for Layers			
Search by 🕄	Category ~		
Keyword 🕄	Reset		
Layers Meeting Sea 785	arch Criteria: Layers Selected: 0		
- Human Enviror	nment		
- Boundaries			
GFEMA Hazard Mitigation Properties*			
ONC MPO RPO Boundary*			
ONC Opportunity Zones			
ONC Statewide Parcel Data Centroids			
ONC Statewide Parcel Data Polygons			
Layers without a checkbox are secured and cannot be added to the map.			
* indicates that a la Tool.	ayer is available for selection in the ATLAS Screening		

1.2 You'll notice as you work through the **ATLAS Search Tool** that sometimes there is an asterisk (\*) next to certain data layers.

All layers are available in the **ATLAS Search Tool**. This asterisk is an indicator that this specific layer is also available in the **ATLAS Screening Tool**.



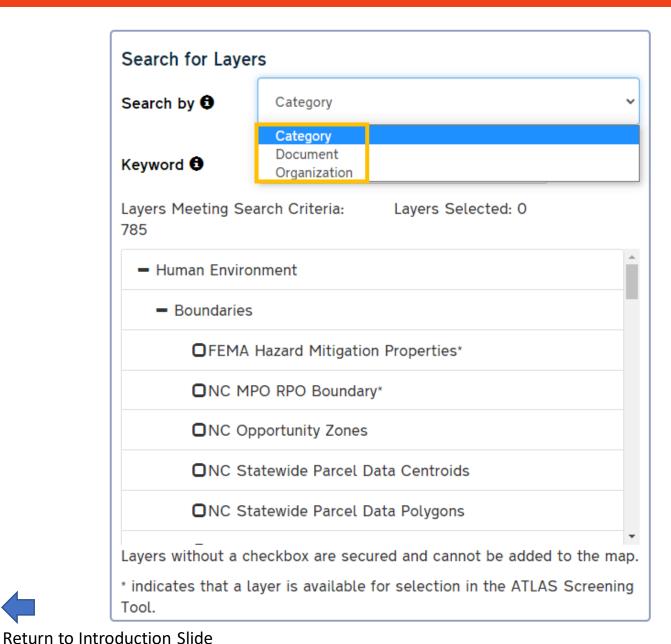
Search for Layers					
Search by 🕄	Category ~				
Keyword	Crash				
Layers Meeting Search Criteria: 9 Layers Selected: 5					
+ Human Environment					
+ Natural Environment					
Layers without a checkbox are secured and cannot be added to the map.					
* indicates that a layer is available for selection in the ATLAS Screening Tool.					

1.3 The Layers Meeting Search Criteria indicator is there to show you how many layers are available for use that meet the search criteria you used.

> When you expand the **Human Environment** and **Natural Environment** tabs, the sub-categories containing the layers meeting your search criteria will be listed.



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- 1.4 There are 3 types to search from:
  - Category: Available layers are grouped by topic or theme
  - Document: Available layers are grouped by the type of report or deliverable for which they are often utilized
  - Organization: Available layers are grouped by the source of the data

These options are described in more detail on the following slides.

Click the + next to each category to expand the selection.

Click in the box to the left of each layer name to select one or more of these data layers. Clicking again in the box will un-select that layer.



Search for Layers					
Search by 🖯	Category ~				
Keyword	Reset				
Layers Meeting Search Criteria: Layers Selected: 2 785					
- Human Environment					
- Boundaries					
FEMA Hazard Mitigation Properties*					
ONC MPO RPO Boundary*					
ONC Opportunity Zones					
☑NC Statewide Parcel Data Centroids					
ONC Statewide Parcel Data Polygons					
2	The expectation in the ATLAS Screening				

1.5 Under the **Category** button, available layers are grouped by topic or theme.



Search for Layers						
Search by 🕄	Document		~			
Keyword 🕄			Reset			
Layers Meeting Search Criteria: Layers Selected: 3 1612						
- Air Report						
EPA Ozone 8 hr (1997 Standard)						
☑EPA PM2 5 24hr (2006 standard)						
DEPA PM2 5 Annual (1997 standard)						
☑NC Statewide Parcel Data Centroids						
ONC Statewide Parcel Data Polygons						
ONCDOT All State Maintained Roads*						
-		cured and cannot be added e for selection in the ATLA				

1.6 Under the **Document** button, available layers are grouped by the type of report or deliverable for which they are often utilized.

These documents include natural resources reports, community impact assessments, comprehensive transportation plans, noise reports, and land use assessments, among others.

Note that some layers are used in multiple documents, and therefore can be found in multiple drop-downs.



#### **1.0** Search for Layers (continued)

Search for Layers					
Search by 🕄	Organization		~		
Keyword			Reset		
Layers Meeting Sea 785	arch Criteria:	Layers Selected: 5			
- City of Raleigh	n, NC		A		
<b>⊡</b> Force Ma	in - City of Ralei	gh			
Gravity S	ewer - City of Ra	ıleigh			
🕑 Lateral - (	City of Raleigh				
Sewer Ma	anhole - City of F	Raleigh			
Sewer Pu	mp Station - Cit	y of Raleigh			
+ County GIS Al	amance County	GIS			
-		ired and cannot be added for selection in the ATLA			
Tool.			_		

1.7 Under the **Organization** button, available layers are grouped by the source of the data. The ATLAS Search Tool provides access to data developed by dozens of different federal, state, and local agencies. This search option allows users to browse layers by owner.

These organizations can include municipality, county, city, and national organizations, among others.



Return to Introduction Slide

#### **1.0** Search for Layers (continued)

**Return to Introduction Slide** 

Search	by 🕄	Category					*	
Keyword	d 🔁	Crash				Reset		
Layers N	Meeting Searc	ch Criteria: 9		Layers S	elected: 0			
🕂 Hur	man Environm	nent						
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1.8 To search by **Keyword**, type a word into the keyword space relevant to the desired data layer.

Keywords will pull up data sets that contain the search text in their name, description, or owning organization.

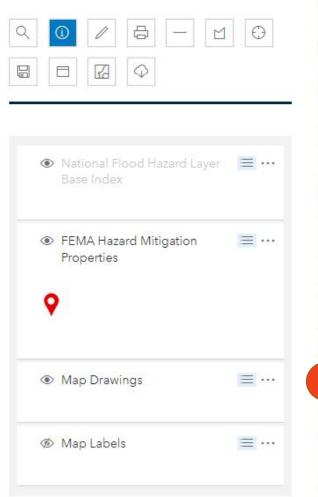
Remember: the **Search By** filter will impact how each layer is displayed, for example document will produce all documents with the keyword in it, whereas category and organization only produce one of each layer.

Try using different keywords (for example, "crash" vs. "safety"), or different versions of the same word (for example, "road" vs. "roads").

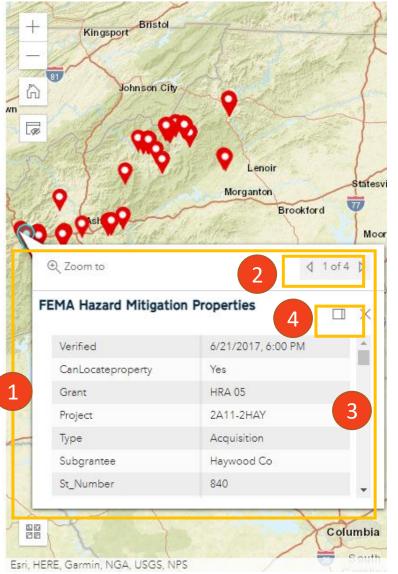
Back to Ma



#### **2.0** Identify Feature



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2.1 Use this tool to identify features on the map. Click on the , then click on a feature in the map. A window will appear showing more information on the feature you clicked.

If more than one feature exists where you clicked, you may access information on these stacked features by clicking on the forward arrow at the top of the identify window.

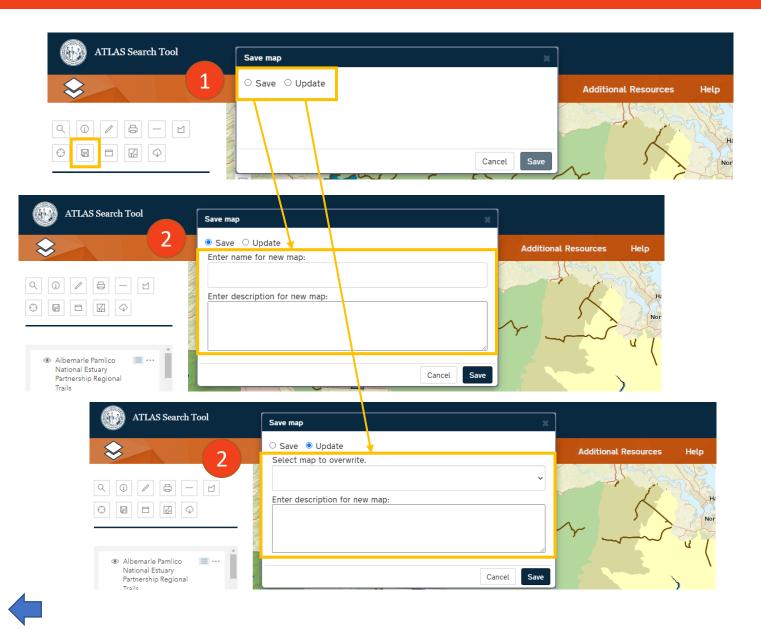
Relevant data and attachments associated with the feature are in the information window; use the scroll bar to see all data and links.

Click on the D to dock the window on the right-hand side of the screen. Click × to close the information window.

4

3

#### 3.0 Save Layer Selection



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3.1 Use the **Save Layer** tool to save a combination of layers that you selected in the **Search for Layers** step. Saving the layer selection makes it available for future use in other maps as a "Saved Map."

To save, add all the layers you want to the layer list, then hit the **Save** button. You can also choose whether you want to **Save** a new layer list or **Update** an old layer list.

To **Save** a new layer list, enter a **Name** and description.

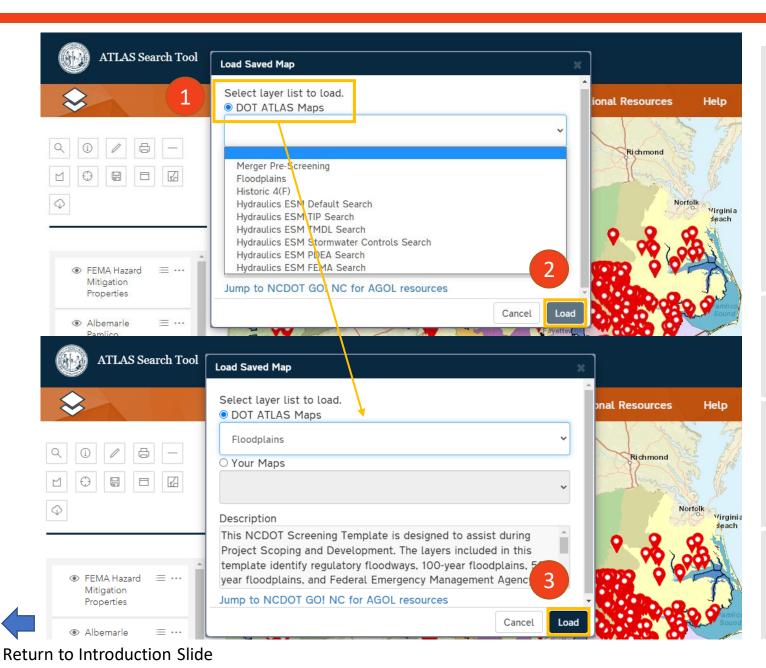
To **Update** a previously-saved layer selection, select the layer list to overwrite and update the description.

2

1

This saved list of layers will be accessible through the **Load Saved Map** step described on the following slide. You may save multiple layer combinations during this step.

#### 4.0 Load Layer Selection



# 4.1 Use the **Load Saved Map** step to add a previously saved list of layers to your map.

Click the icon and select from either **DOT ATLAS Maps** (NCDOT-created templates) or **Your Maps** (Layer selections you've made and saved in the past).

From there select which layers to load by clicking **Load** once to take you to the description window.

2

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- Then, click **Load** once more to add to them. You can also add or remove layers at this point, after loading the saved list.
- All layers in that set will be added to your legend. This saved list is associated with your NCID and will be available on all Workbench maps for projects you can access.

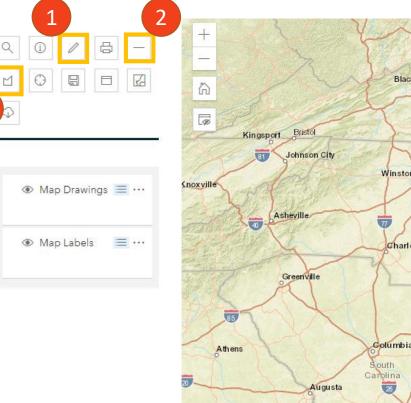


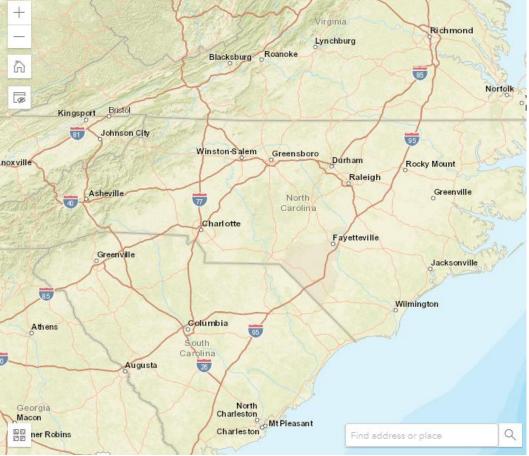
## Advancing Transportation through Linkages, Automation, and Screening (ATLAS) Training Courses

### Add Labels/Images and Measure

#### 0.0 **Before We Begin**

3





There are three options in the labels/images and measuring function.

More information about these options are on the following slides.

0.1

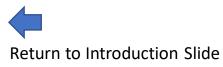
1

Draw //

When you click the **Draw** icon, a new tool bar will pop up with additional options.







#### **1.0** Draw: Overview



1.1 Use the draw tool to add graphics to your map. When you click on the , a new drawing toolbar will appear in the top right corner of the map.

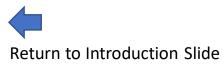
Your drawn features will be added to the 'Map Drawings' layer on your Table of Contents (TOC).

2

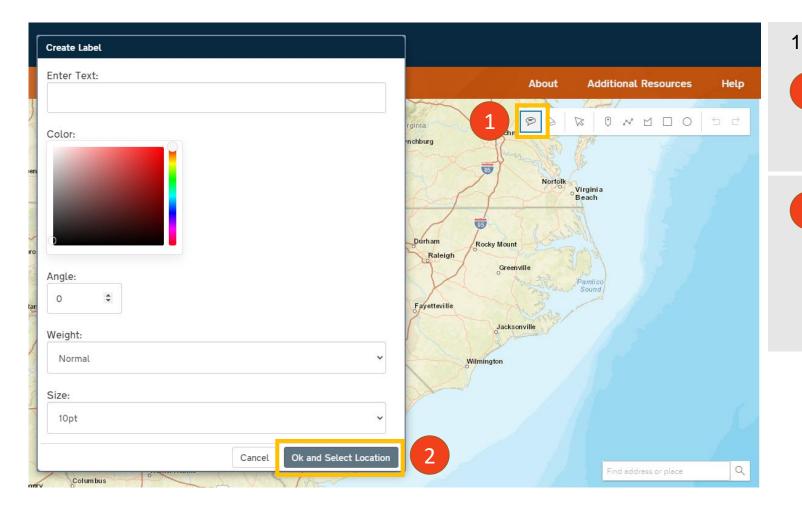
Use the icon on the TOC to turn drawn features on and off, move the layers above or below others, or change the opacity (transparency).

The shape drawn with the **draw tool** is temporary for the current session and does not have any data associated with it. You can also label your drawing with the 🗭 function.





#### **1.0** Draw: Add a Label



1.2 When you click on the Speech Bubble icon, a Create Label box appears where you can enter the Label's text, and select its color, angle, weight, and size.

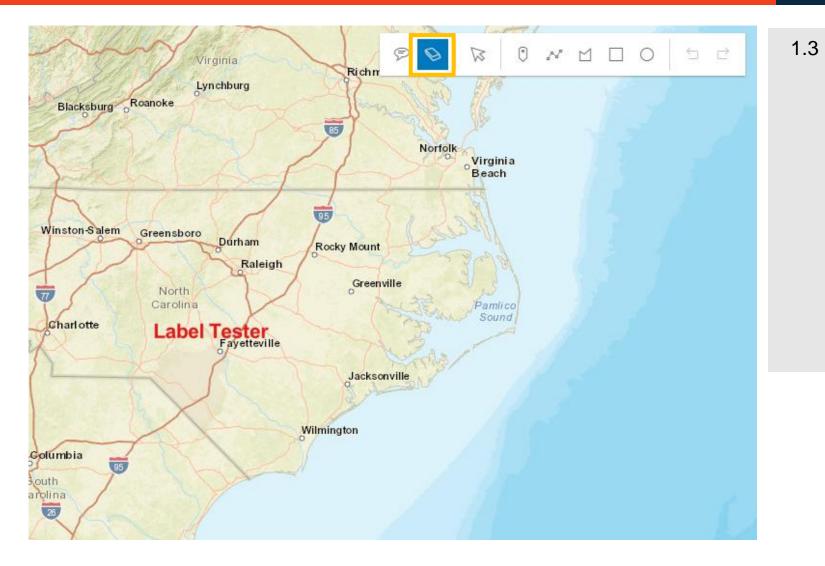
2 Once filled out, click on the **Ok and Select Location** button to click a location on the map to place the label.

> Your labels will be added to the **Map** Labels layer on your table of contents.



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#### **1.0** Draw: Remove a Label or Image



3 To **Remove** a label or image that you have placed on the map, click on the **Remove Label** button, indicated by the So icon, and select on the label or image in the map. The following menu extension will appear:

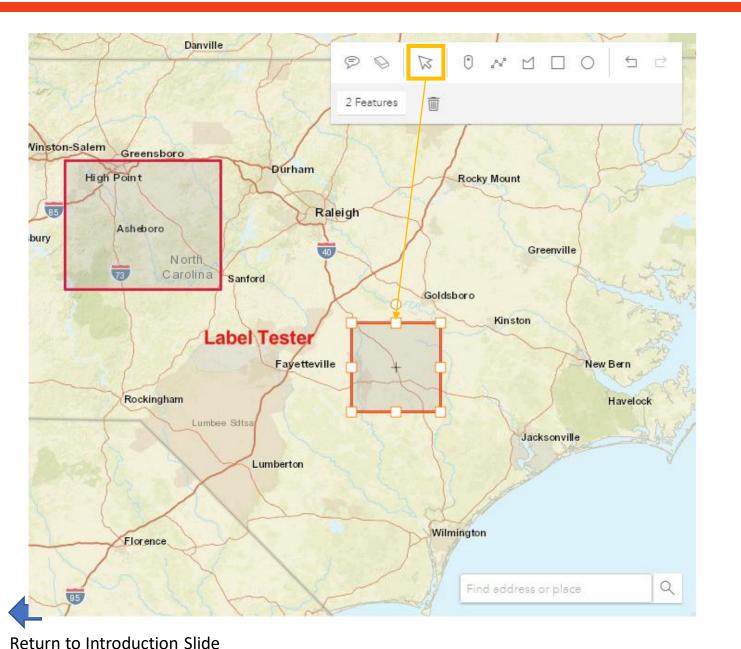
99	$\square$	(*) <sup>n</sup> _u <sup>n</sup>	0	
1 Feature				

You can click "Delete" on your keyboard or click on the icon.





#### **1.0** Draw: Transform and Reshape

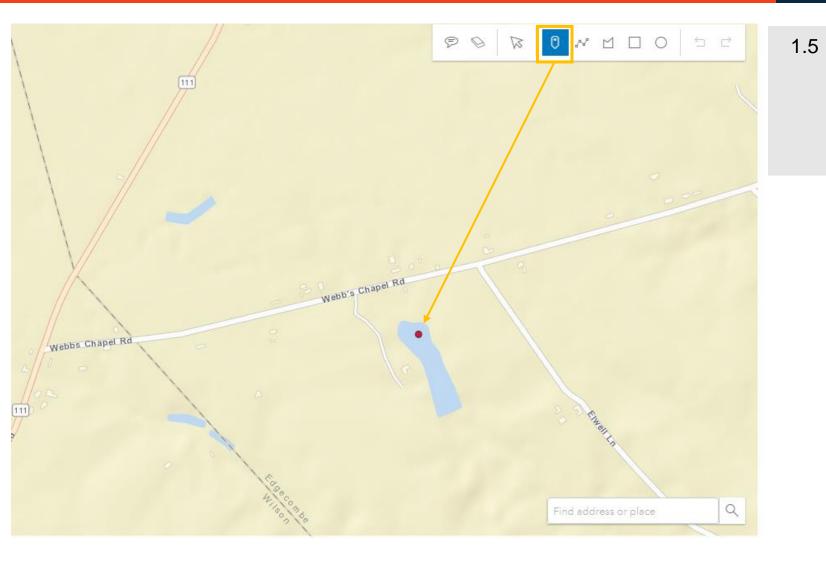


- 1.4 Use the **Select Feature** tool to move or reshape any feature drawn on the map. Click on the icon, then click on the feature. You can:
  - 1. Shift it to the desired location
  - 2. Reshape it by moving individual vertices
  - 3. Rotate it by using the circle that appears above the shape

Remember, these shapes are not study areas and will not be used when generating reports or analyzing data. They will only display as images in the map.



#### **1.0** Draw: Draw a Point

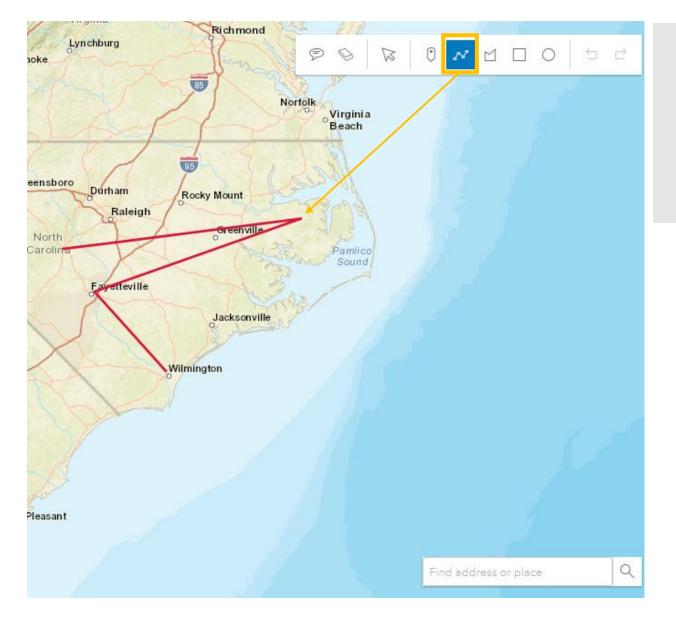


5 Use the **Point** tool to draw a dot anywhere on the map.

Once you place the point, you can move or delete it using the R icon.



#### **1.0** Draw: Draw a Polyline



1.6 Use the **Line** tool to draw a polyline anywhere on your map.

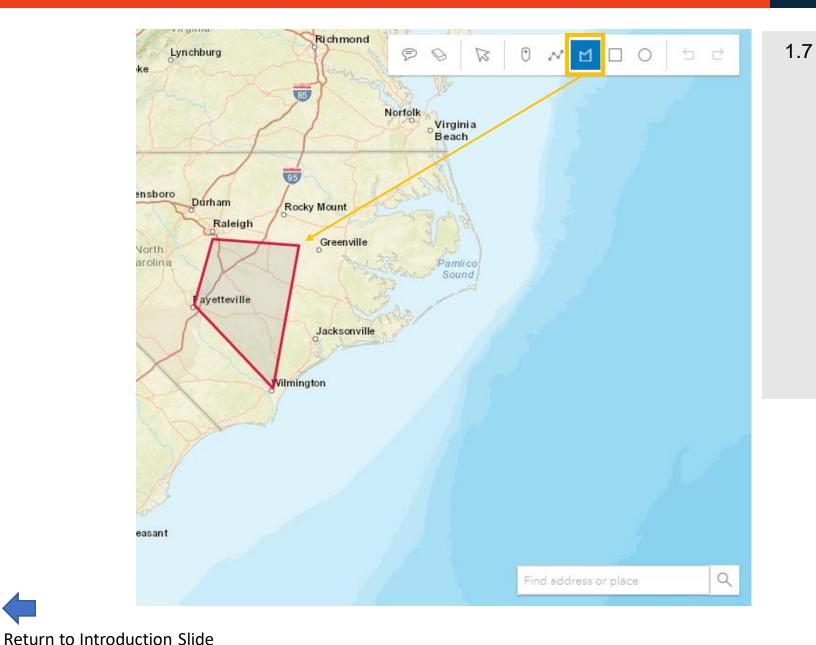
**Double-click** to finish drawing.

Once you place the point, you can move or delete it using the  $\bowtie$  icon.



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#### **1.0** Draw: Draw a Polygon



7 Use the **Polygon** tool to draw a polygon anywhere on your map.

The polygon must have at a minimum three points but there is not a maximum number of points.

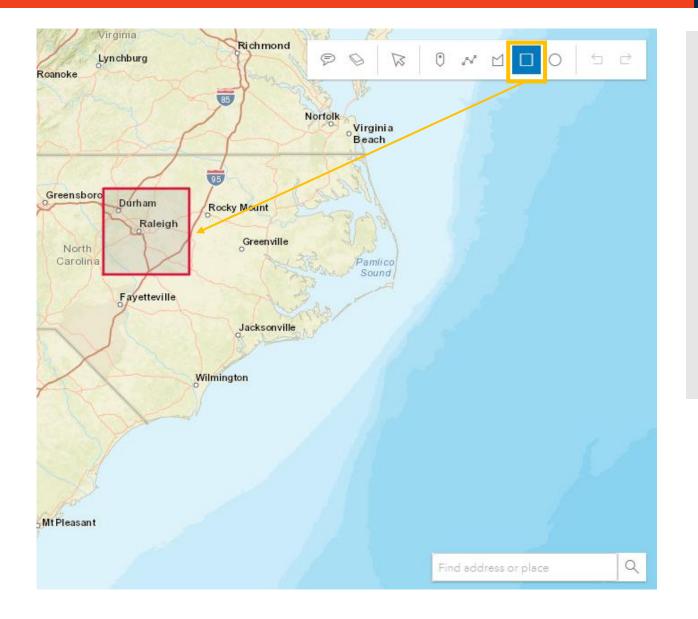
**Double-click** to finish drawing, the polygon will automatically complete to close the shape. Any double click after three points will complete the shape.

Once you place the point, you can move or delete it using the  $\bowtie$  icon.



#### **1.0** Draw: Draw a Rectangle

Return to Introduction Slide



1.8 Use the **Rectangle** tool to draw a rectangle anywhere on your map.

To begin the drawing, click on the map, hold the mouse button down, and drag in or out to control the size of the shape. **The first point becomes a corner point.** 

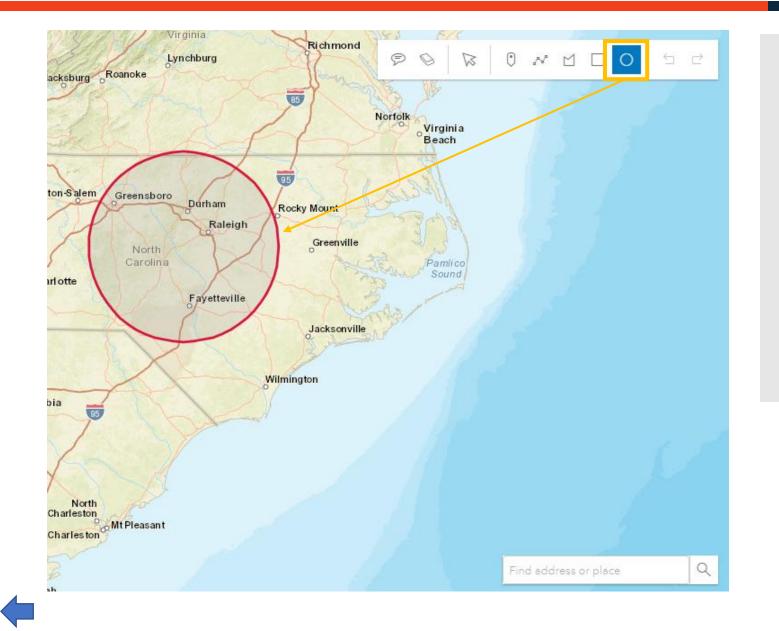
To end the drawing, release the mouse button.

Once you place the point, you can move or delete it using the  $\bowtie$  icon.



#### **1.0** Draw: Draw a Circle

Return to Introduction Slide



1.9 Use the **Circle** tool to draw a circle anywhere on your map.

To begin the drawing, click on the map, hold the mouse button down, and drag in or out to control the size of the shape. **The first point becomes the center point.** 

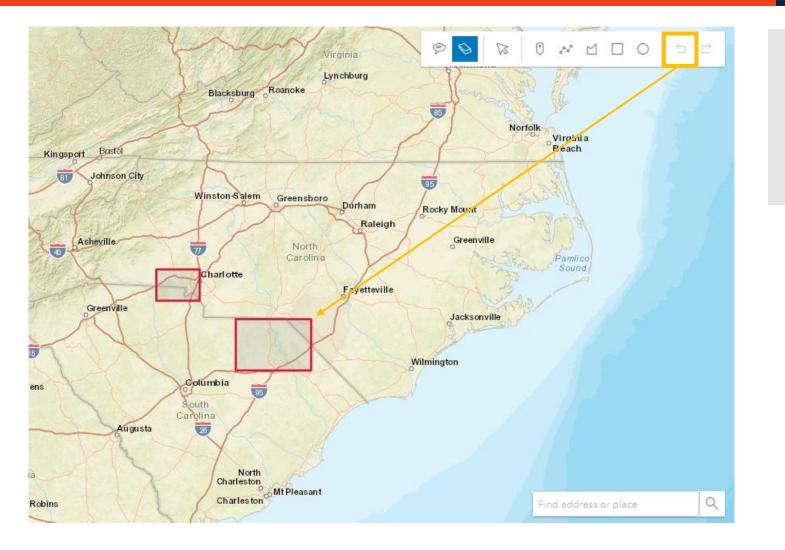
To end the drawing, release the mouse button.

Once you place the point, you can move or delete it using the  $\boxed{R}$  icon.



#### **1.0** Draw: Undo a Map Action

**Return to Introduction Slide** 



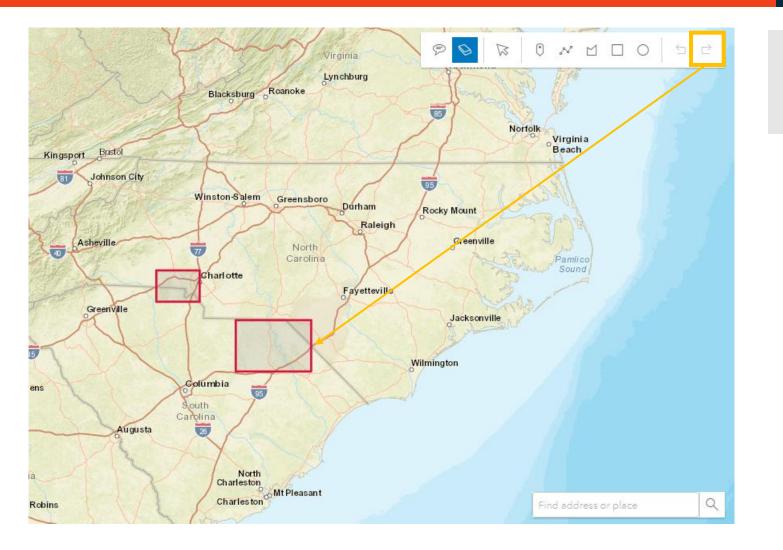
1.10 Use the **Undo** tool to undo a map operation. This works to undo actions involving resizing of shapes.

To undo creation of a shape, use the **Remove Label** function.



#### **1.0** Draw: Redo a Map Action

**Return to Introduction Slide** 

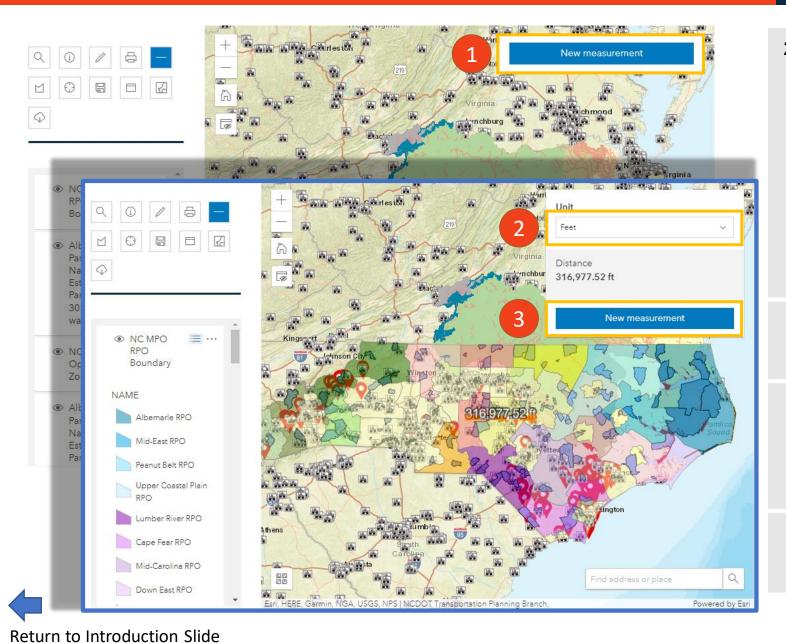


1.11 Use the **Redo** tool to redo a map operation. This works to redo an "undo" action involving resizing of shapes.



54

#### **2.0** Measure Distance



2.1 Use this to measure distance between any two points on the map.

After you click the icon, click the blue **New Measurement** button in the top right corner of the map.

Click on the map to start measuring. As you measure, the distance will be noted. To end your measurement, double click.

2

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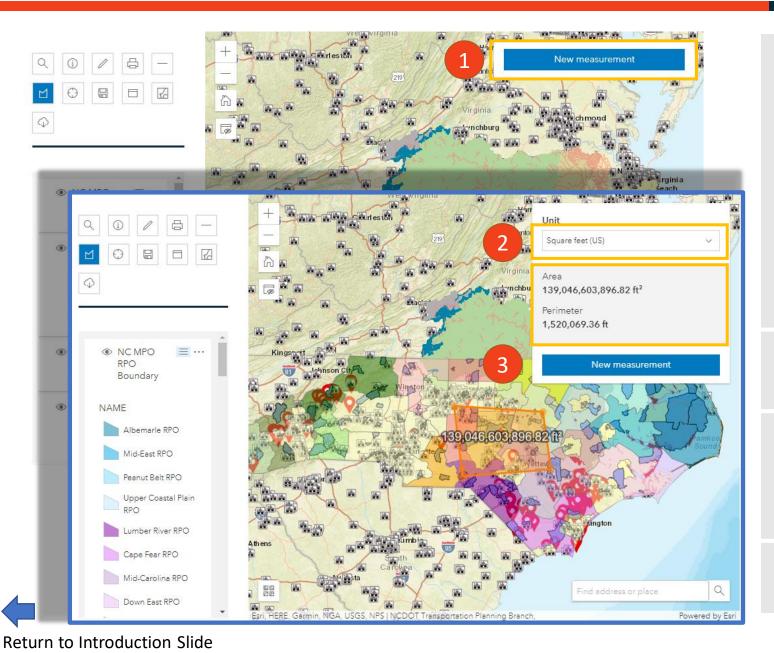
You can change the units using the dropdown menu.

Start a new measurement at any point using the New Measurement button. Keep in mind that this clears your last measurement.

To clear the measurement toolbar, click again on the \_ icon.



#### **3.0** Measure Area



3.1 This tool works much like the previous one to measure distance, but measures an area.

After you click the dicon, click the blue **New Measurement** button in the top right corner of the map.

Click on the map to start measuring. As you measure, the distance will be noted. To end your measurement, double click.

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You can change the units using the dropdown menu.

You can start new measurement at any point using the New Measurement button. Keep in mind that this clears your last measurement.

3

The icon to measure area is the same as the icon used to draw a polygon in the draw tools.

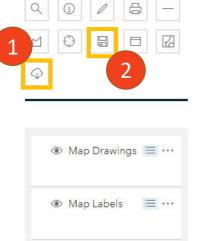
ATLAS Search Tool

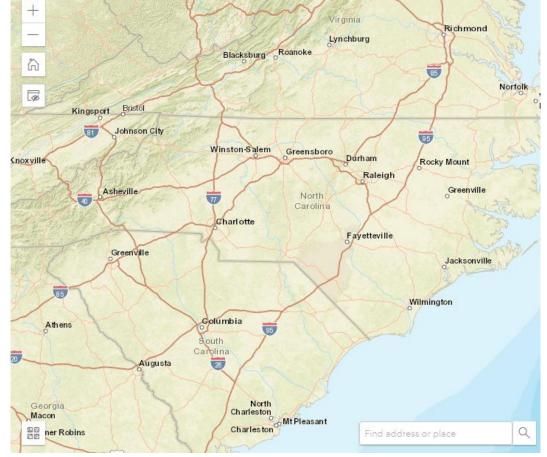


## Advancing Transportation through Linkages, Automation, and Screening (ATLAS) Training Courses

### **Download Layers or Print Map**

#### **0.0** Before We Begin





0.1 There are two options in the Download Layers or Print Map function.

More information about these options are on the following slides.



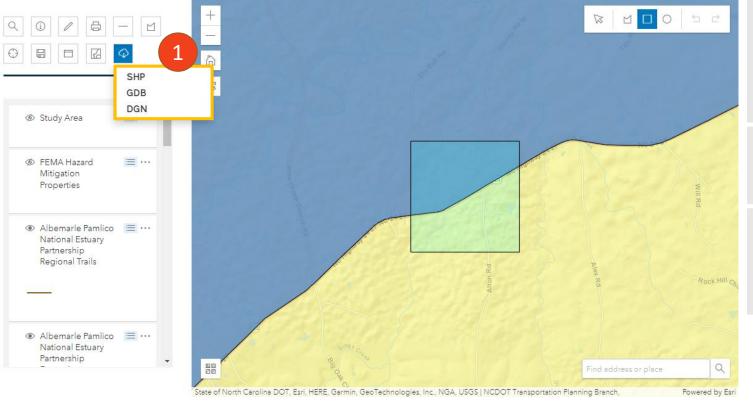
► Print Map 🖨

2





#### **1.0** Download Data



The **Download Data** tool allows you to download your data, clipped to your study area, in one of the three available formats (SHP, GDB, or DGN).



1.1

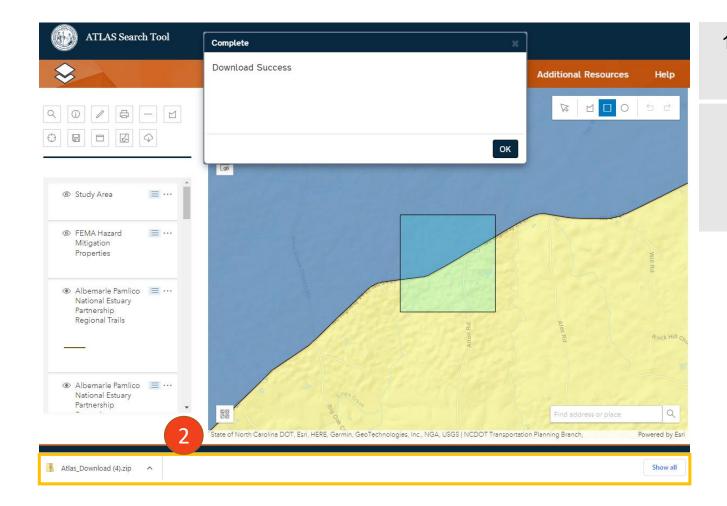
Select the sicon and choose a file format.

Labels and shapes drawn onto the map will not affect the area used to clip the data layers. The layers are clipped only by the **study area** that you have uploaded or drawn using the



#### **1.0** Download Data (continued)

Return to Introduction Slide



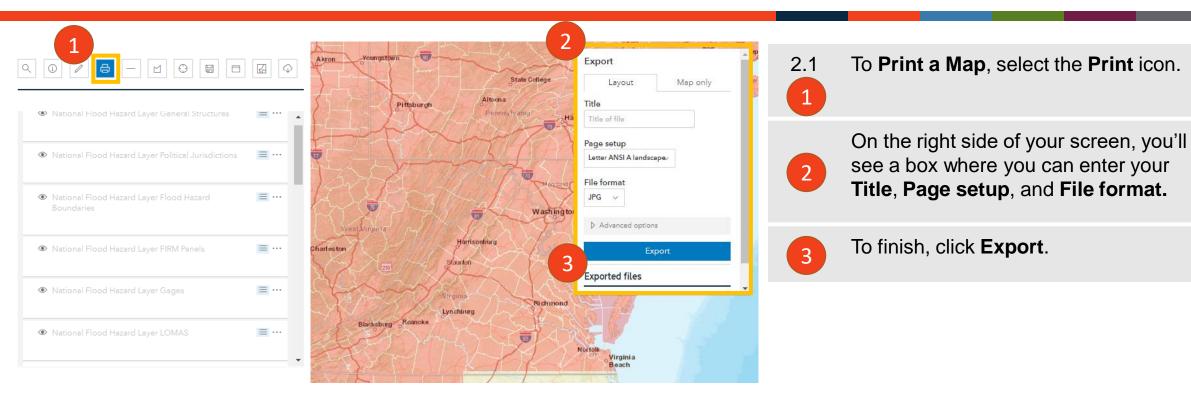
1.2 Once you select your file type and your map has downloaded, select **OK**.

Once downloaded, the file will appear at the bottom of your browser page, as well as in your computer's download folder.



### 2.0 Print Map

**Return to Introduction Slide** 





#### 2.0 Print Map (continued)

Layout	Map only
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File format	
Advanced options	1
Exp	port
Exported files	
ATLAS.jpg	



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Once exported, the file will appear under **Exported files**.

Clicking "Export" does not automatically download to the user's downloaded folder. To access the downloaded files, click the "Exported files" link and download individual files to your computer.



You have now completed this module.

For additional questions, email **ATLAS@ncdot.gov** 

### SE.00 A Guide to the ATLAS Search Tool

#### Module SE.00 Reference Table

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1	Log into ATLAS Search Tool	5-19
2	Zoom into Area of Interest	23-28
3	Select Layers	29-41
4	Add Labels/Images and Measure	42-56
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