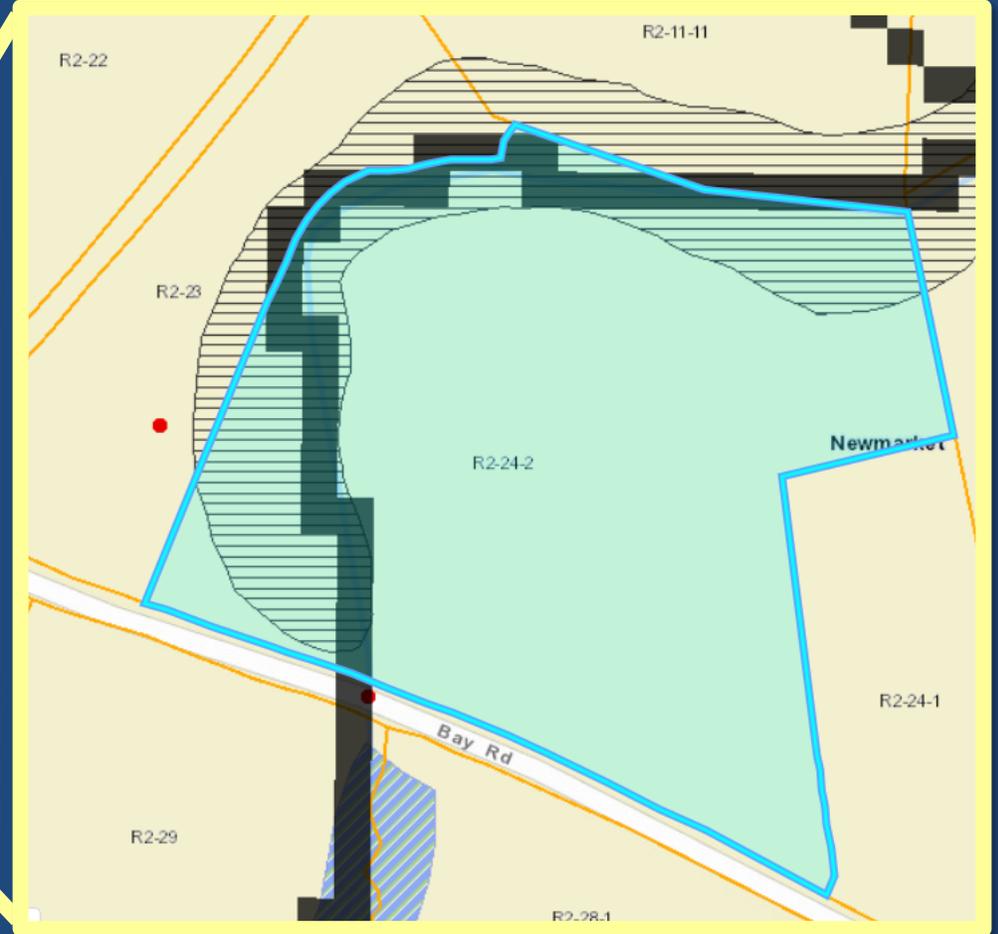
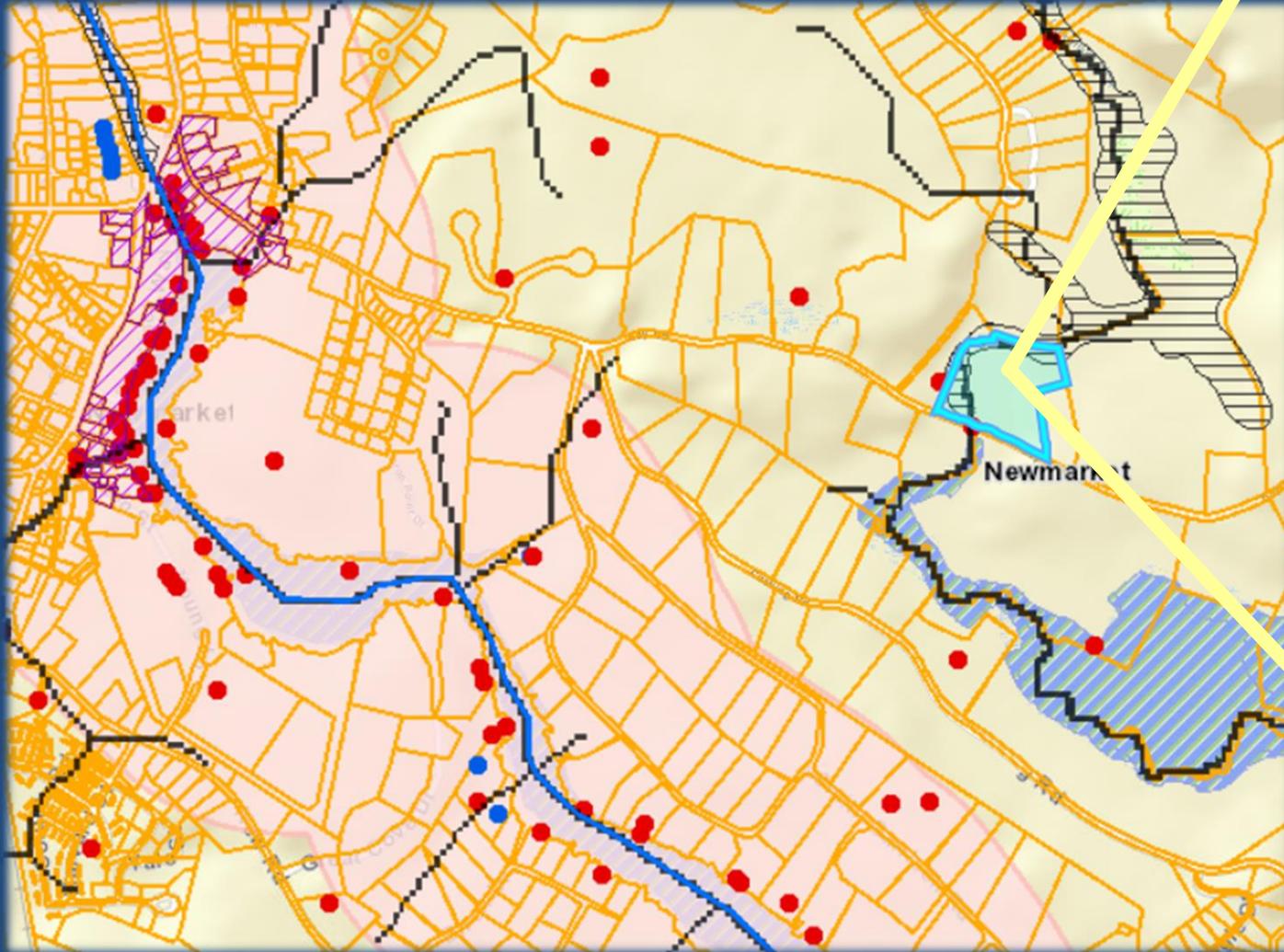


NHDES Wetlands Permit Planning Tool (WPPT)



October 10, 2019

Stefanie M. Giallongo
Land Resources Management



Agenda

An introduction to the Wetlands Permit Planning Tool

- 1) Goals & Background
- 2) Tour: Datasets, Organization & Tools
- 3) Additional Resources

WPPT – Goals

Designed for the
New Rules –
Effective Dec. 2019!

- Improve access to spatial data for NHDES' Wetlands Permitting processes;
- Provide clear guidance to prospective permit applicants;
- Create a planning tool to inform and improve avoidance, minimization and mitigation during project *design*

WPPT - Background

- Developed by the NHDES in partnership with NH GRANIT at UNH.
- Supported by a DoIT capital budget grant.
- Built using Geocortex Essentials v4.10 and the HTML5 viewer, v2.11.

Welcome

I want to...

Search...

Hyacinthe

Initial View Query Identify Point Distance



WPPT – Let's Take A Tour!

NHDES Wetlands Permit Planning Tool

The New Hampshire Department of Environmental Services (NHDES) Wetlands Permit Planning Tool (WPPT) provides access to data which can be used to avoid and minimize impacts to wetlands and other natural resources.

This tool is intended to be used for screening purposes only and it was not designed, nor does it have the accuracy, to determine precise location of features or setbacks.

For permitting purposes, wetland boundaries must be field-delineated.

To check whether a protected species or habitat is found in your project area, please use the [NHB Data Check Tool](#).

Getting Started:

[WPPT User Guide](#)

[FAQ's -- Coming Soon!](#)

[NHDES Data Layers and Metadata](#)

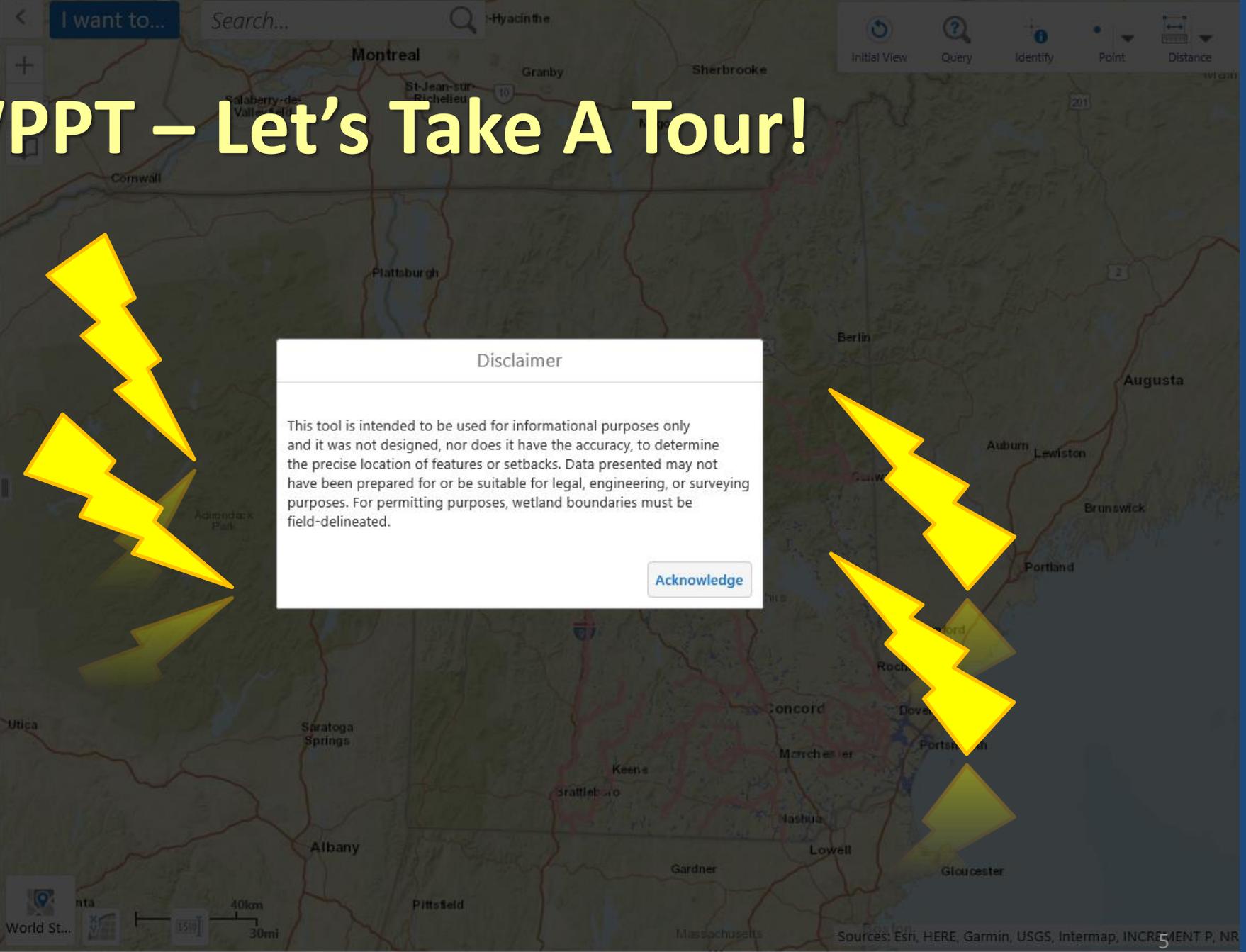
[NH GRANIT Map Services and Metadata](#)

Feedback:

We are very interested in feedback. Please direct all comments to WetlandsPermitScreeningTool@des.nh.gov

Acknowledgment:

The NHDES Wetlands Permit Planning Tool was developed by the New Hampshire Department of Environmental Services in partnership with NH GRANIT at the Institute for the Study of Earth, Oceans, and Space, University of New Hampshire. The project was supported by a DoIT grant to develop a mapping site that provides public access to NHDES enterprise data sets.



Disclaimer

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[Acknowledge](#)

Welcome



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Welcome

Layers

I want to... 2018-00336

- Open the welcome page**
View information about this application.
- View map layers**
Alter visibility of map layers, perform layer actions, and view the legend.
- Show the legend**
Display a legend for the selected layers.
- Find data on the map**
Click, tap, or draw a rectangle on the map to identify features.
- Download data**
Extracts select data sets for download
- Return to initial map extent**
Return to the initial map position and zoom level.
- Bookmark current map extent**
Add the current map extent to the list of bookmarks, so that I can return to it later.

Enter an address or a permit number!

Use the "I want to..." menu to return to the Welcome Panel or the Layer List, show the legend, find data...

Explore the Tool Box to Query data, Identify features, Draw, Measure distances or areas, Print or Export maps

Find the User Guide, FAQ's, metadata and contact information in the Welcome Panel

Change your Basemap

- World St...
- World Stree...
- World_Ima...
- USA Topo...
- World Light...

Wait, what is Metadata?
It's information that describes the data. *Who created it? When? How? Where is the source? What are the limitations?*

Initial View Query Identify Point Distance Clear Print Export Tools



Coastal Theme



- Basemaps
- Coastal Layers
- Eelgrass Layers
- Shellfish Layers
- Tidal Waters
- Predicted Salt Marsh Migration
 - Initial Conditions (2014)
 - Salt Marsh Migration Scenario 1 (1.2-meter rise by 2100)
 - Salt Marsh Migration Scenario 2 (2-meter rise by 2100)
 - Sea Level Rise (SLR) over Mean Higher High Water (MHHW)
 - SLR_HIGH_2050_FLOOD
- Mitigation Layers
- Priority Resource Areas
- Resource Planning Layers



Wetland Permit Themes

were designed to simplify the display by reducing the number of visible layers to only those required for a certain project type.

For example:

Forestry

Coastal



Welcome



Layers



40m



200m

S

Layers

Choose a wetlands permit theme here or check layers below

Basemaps

- NH State Boundary
- NH County Boundaries
- NH City/Town Boundaries
- NHDES Wetlands or Shoreland Permit
- Parcel Mosaic



Water - Land Resource Management Query Results

[Return to Query Results](#)

File Number: 2000-02440
 Date Received: 11/13/2000
 Owner Name: NEWMARKET COMMUNITY DEVELOPMENT
 Site Address: BAY RD NEWMARKET, ROCKINGHAM
 Site Map/Lot: U-2 357, 358
 Waterbody Name: LAMPREY RIVER

Project Description: Convert 4 mill buildings into multi family dwellings.

Total Documents Returned: 0
The partial contents of files dated prior to January 2017 may be available in [Archived Documents](#).

New Hampshire Department of Environmental Services | PO Box 95 | 29 Hazen Drive | Concord, NH 03302-0095
603.271.3505 | TDD Access: Relay NH 1.800.735.2964 | Hours: M-F, 8am-4pm

NHDES Wetlands or Shoreland Permit

Permit Number: 2000-02440

Project type: CONSTRUCTION IN TBZ

[Click for OneStop Search:](#)

[View Additional Details](#) [Add to Results](#)

Basemap Layers

Political Boundaries

NHDES Wetland & Shoreland Permit Points

Parcel Mosaic

Shoreland Jurisdiction

- Rivers
- Lakes
- Urban Exemptions

Note:
This layer does not depict the Shoreland Jurisdiction relative to Tidal Waters.

Click on a Wetland or Shoreland Permit Point for the permit number and a link to OneStop!



Layers



I want to...

Search...



Choose a wetlands permit theme here or check layers

+ Basemaps

- Coastal Layers

+ Eelgrass Layers

+ Shellfish Layers

Tidal Waters

+ Predicted Salt Marsh Migration

+ Sea Level Rise (SLR) over Mean Higher High Water (MHHW)

+ Mitigation Layers

+ Priority Resource Areas

+ Resource Planning Layers



Welcome



Layers

World_I...



0.61km

1:500

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geoc

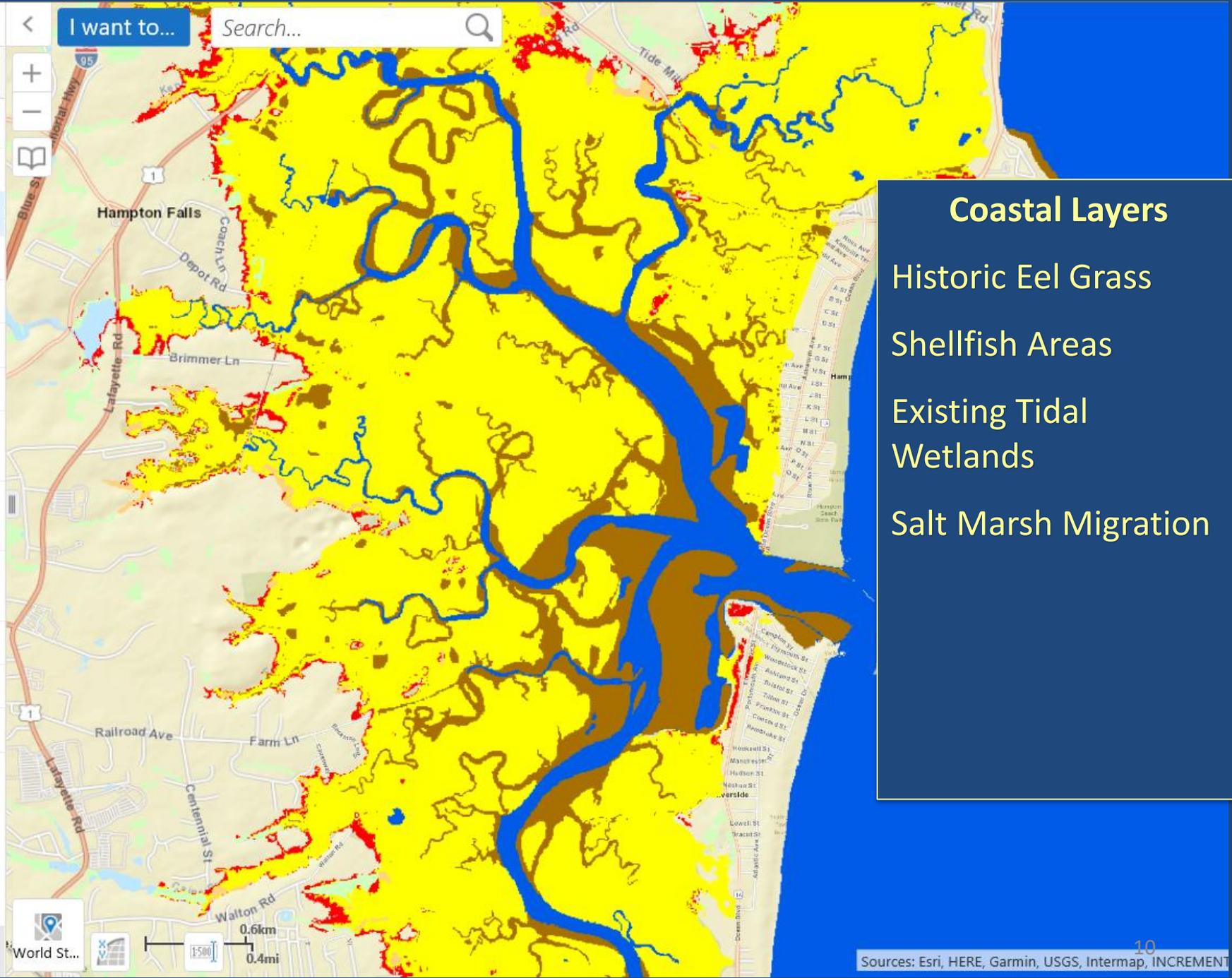
Coastal Layers

Historic Eel Grass

Shellfish Areas

Choose a wetlands permit theme here or check layers below

- + Basemaps
- Coastal Layers
- + Eelgrass Layers
- + Shellfish Layers
- Tidal Waters
- Predicted Salt Marsh Migration
 - Initial Conditions (2014)
 - + Salt Marsh Migration Scenario 1 (1.2-meter rise by 2100)
 - + Salt Marsh Migration Scenario 2 (2-meter rise by 2100)
- + Sea Level Rise (SLR) over Mean Higher High Water (MHHW)
- + Mitigation Layers
- + Priority Resource Areas
- + Resource Planning Layers



Coastal Layers

- Historic Eel Grass
- Shellfish Areas
- Existing Tidal Wetlands
- Salt Marsh Migration

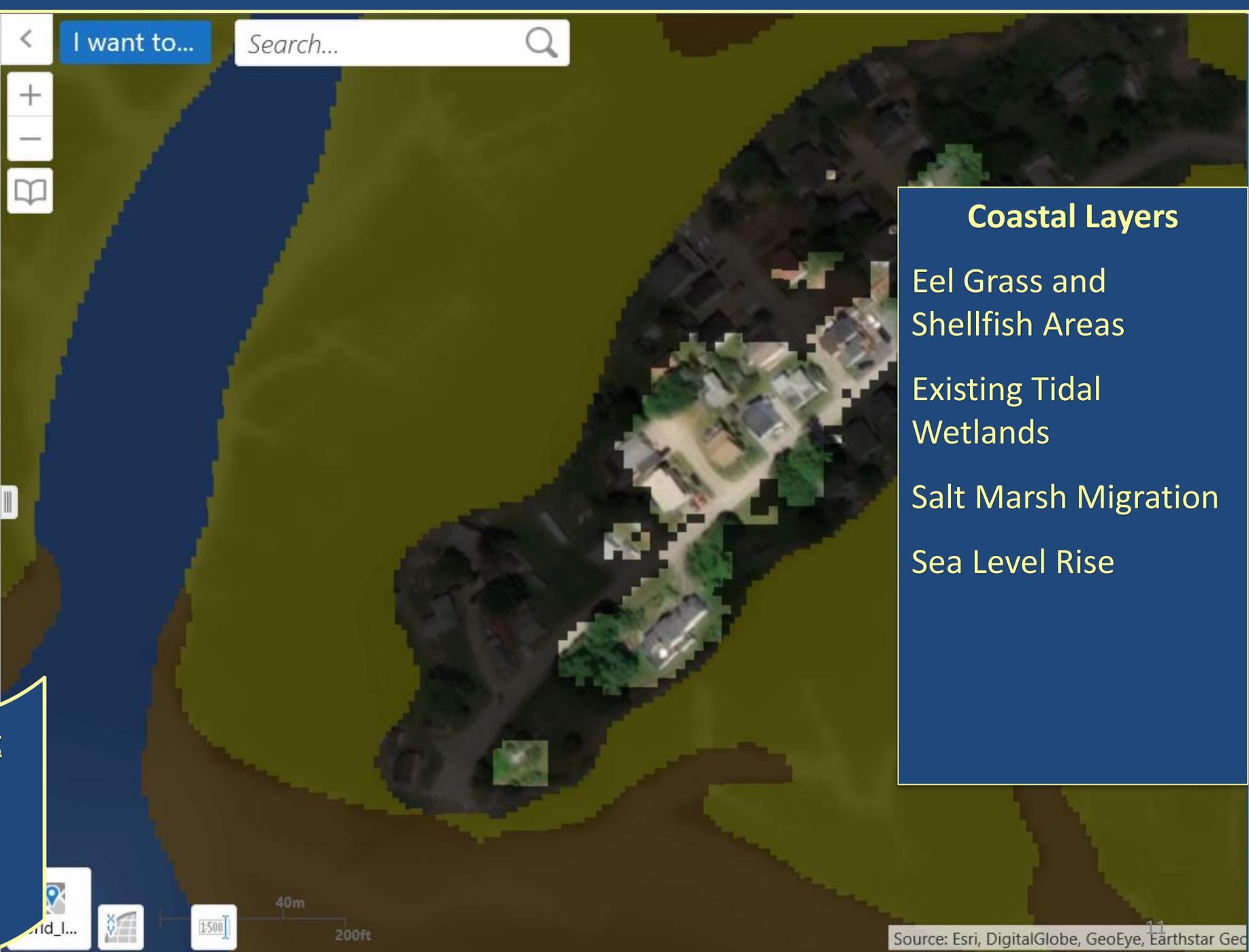
Layers

Choose a wetlands permit theme here or check layers

- Eelgrass Layers
- Shellfish Layers
- Tidal Waters
- Predicted Salt Marsh Migration
- Sea Level Rise (SLR) over Mean Higher High Water (MHHW)
 - 1.7' SLR over 1% chance storm surge
 - 1.7' SLR over MHHW
 - 3.9' SLR over 1% chance storm surge
 - 3.9' SLR over MHHW
 - chance storm

I want to... Search...

Map navigation controls: +, -, and a book icon.



Coastal Layers

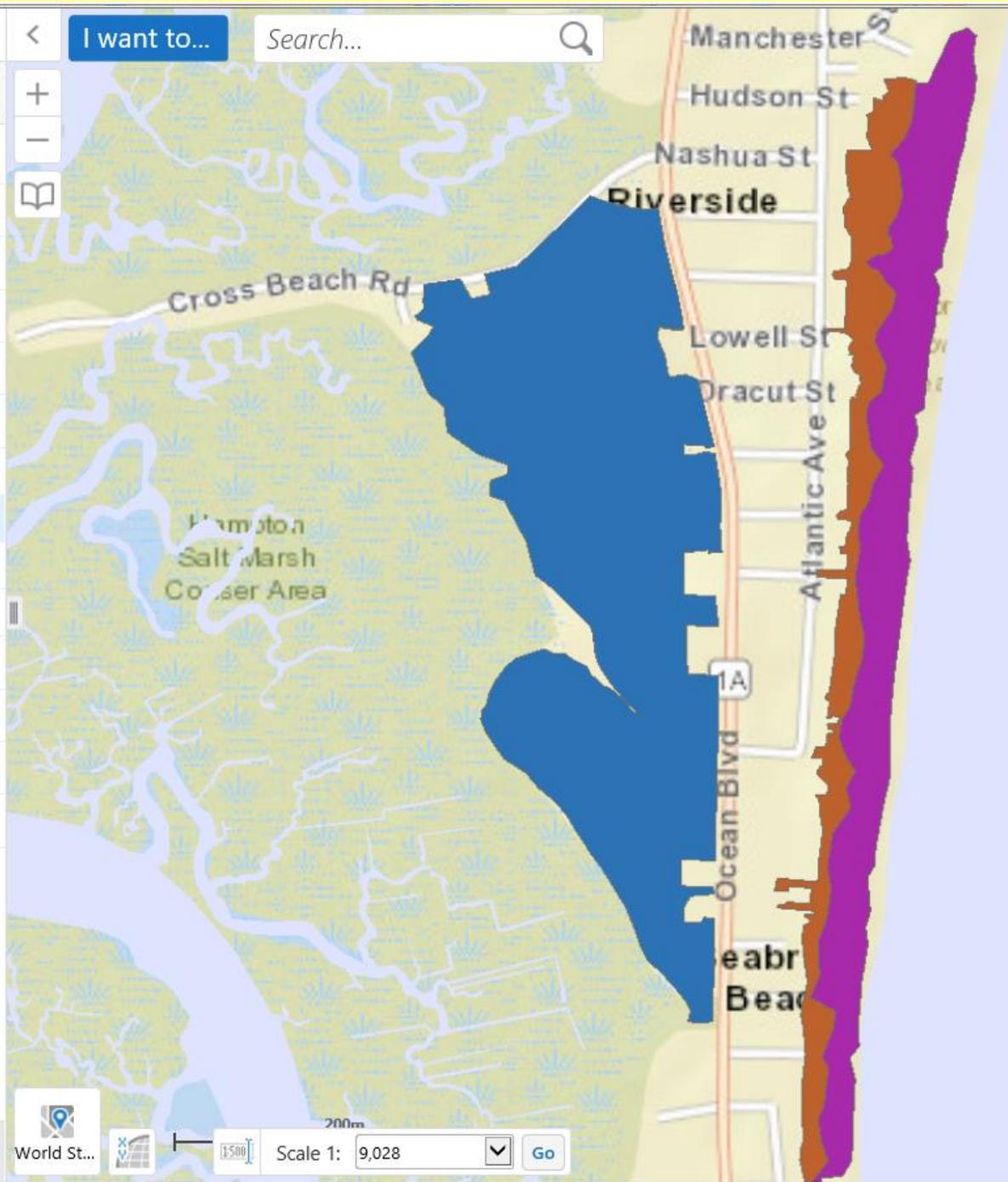
- Eel Grass and Shellfish Areas
- Existing Tidal Wetlands
- Salt Marsh Migration
- Sea Level Rise

Env-Wt 603.03 Data Screening
To identify potential impact & to inform the vulnerability assessment

Layers

Choose a wetlands permit theme here or check layers below

- Basemaps
- Coastal Layers
- Mitigation Layers
- Priority Resource Areas**
- Prime Wetlands
- Dunes
 - backdune
 - foredune
 - interdune
 - other
- Peatlands
- Floodplain Wetlands Adjacent to Tier 3 Streams
- Tidal_Waters
- Resource Planning Layers



- Priority Resource Areas [PRAs]**
(Env-Wt 103.65)
jurisdictional areas that have:
- Protected species or habitat (NHB)
 - Bogs
 - Floodplain wetlands adjacent to Tier 3+
 - Prime Wetlands
 - Sand Dunes
 - Tidal Wetlands, Tidal Waters or
 - Undeveloped Tidal Buffer Zone

Choose a wetlands permit theme here or check layers below

- Basemaps
- Coastal Layers
- Mitigation Layers
- Priority Resource Areas
- Resource Planning Layers
 - Potentially Contaminated Sites:
 - Remediation Sites
 - Hazardous Waste Generators
 - Automobile Salvage Yards
 - Underground Storage Tank Sites
 - Aboveground Storage Tank Sites
 - Solid Waste Facilities
 - Asbestos Disposal Sites
 - NPDES Outfalls
- Impaired Waters
- Designated River Corridor
- Outstanding Resource Water Watersheds
- National Wetlands Inventory Layers
- Wildlife Action Plan Layers

Resource Planning Layers -
 important resources that
 should be avoided and
 minimized to the greatest
 extent possible
 OR
 which may elevate a permit
 application to a higher level of
 technical review.

Resource Planning Layers:
Potentially Contaminated and Remediation Sites

Direct links to
 the NHDES
 OneStop
 Query!



[View Additional Details](#) | [Add to Results](#)



Monday, Sep. 9, 2019

OneStop - Search Results

Document Retrieval Problems? [Learn More](#)

New Search Total rows Found: 1 Display 10 results per page Sort By: Name

Location	Name(s) at Location	Interest(s) at this location <small>Click interest for details</small>	Primary Id(s)	Secondary Id(s)
10 ALBIN RD BOW Map It Master Id: 57033	WIND CHIMES	Public Water System	PWS Id: 0262040	Project No: 0012220
	COTTAGES AT WINDCHIMES	Underground Injection Control	Site No: 200208073	
Location	Name(s) at Location	Interest(s) at this location <small>Click interest details</small>	Primary Id(s)	Secondary Id(s)

New Hampshire Department of Environmental Services | PO Box 95 | 29 Hazen Drive | Concord, NH 03302-0095
 603.271.3503 | TDD Access: Relay NH 1.800.735.2964 | Hours: M-F, 8am-4pm

Choose a wetlands permit theme here or check layers below



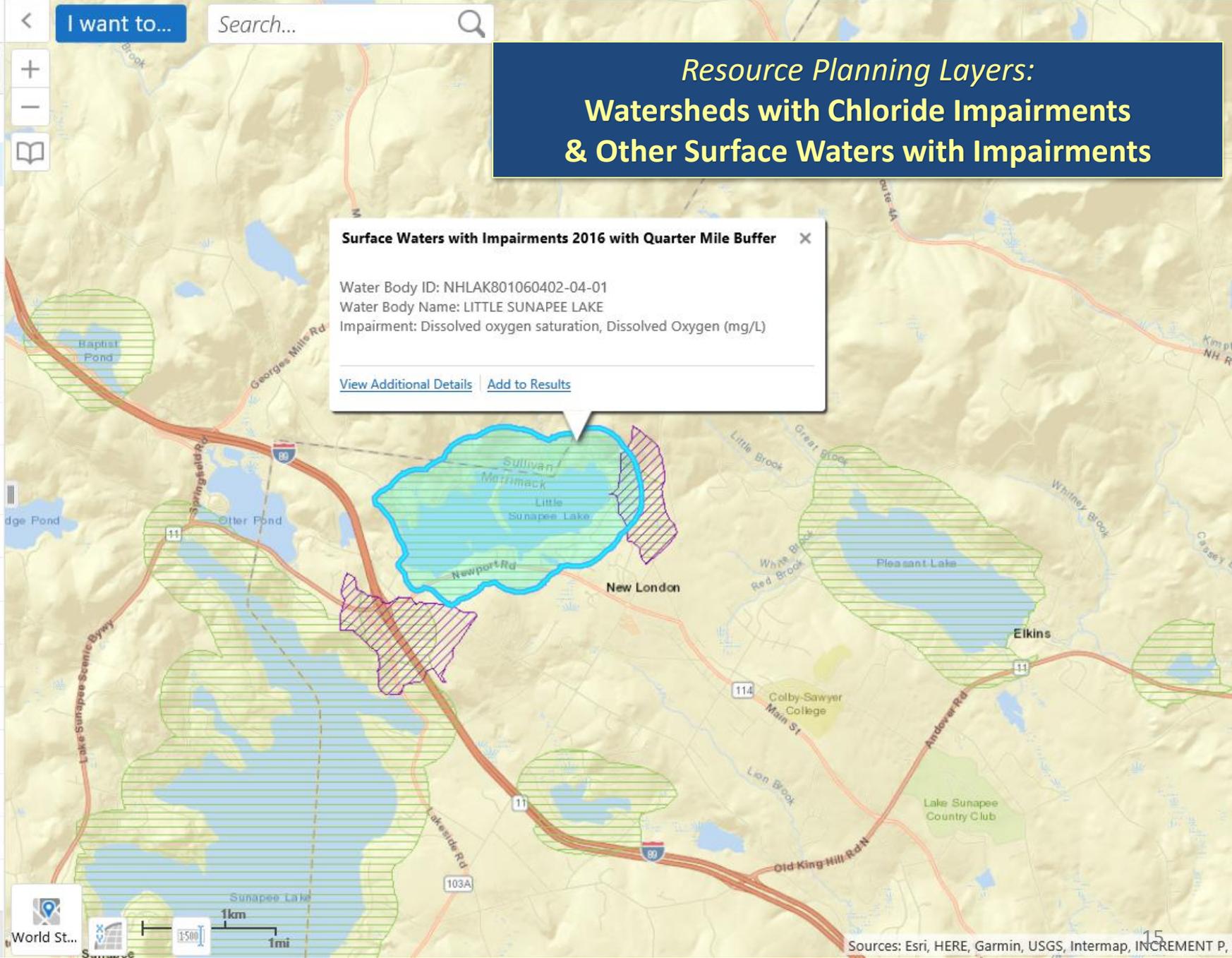
- Basemaps
- Coastal Layers
- Mitigation Layers
- Priority Resource Areas
- Resource Planning Layers**
- Potentially Contaminated Sites:
- Impaired Waters**
- Watersheds with Chloride Impairments 2016
- Surface Waters with Impairments 2016 with Quarter Mile Buffer
- Designated River Corridor
- Outstanding Resource Water Watersheds
- National Wetlands Inventory Layers
- Wildlife Action Plan Layers
- FEMA Floodplains
- Hydric Soils
- Soil Drainage Classification
- Watershed Drainage Area (sq. mile)

Resource Planning Layers: Watersheds with Chloride Impairments & Other Surface Waters with Impairments

Surface Waters with Impairments 2016 with Quarter Mile Buffer ✕

Water Body ID: NHLAK801060402-04-01
 Water Body Name: LITTLE SUNAPEE LAKE
 Impairment: Dissolved oxygen saturation, Dissolved Oxygen (mg/L)

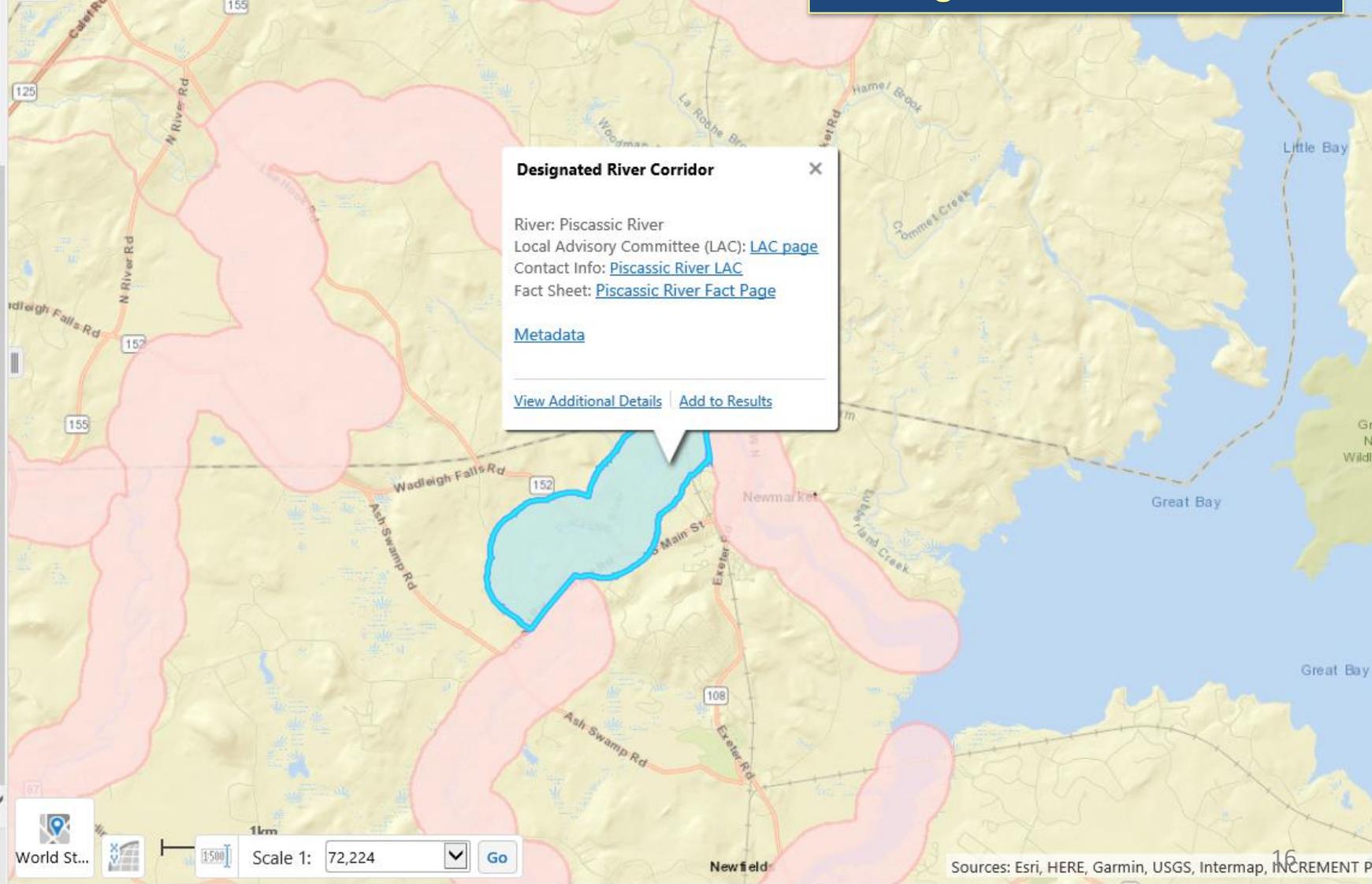
[View Additional Details](#) [Add to Results](#)



Choose a wetlands permit theme here or check layers below



- Impaired Waters 🔍
- Watersheds with Chloride Impairments 2016 >
- Surface Waters with Impairments 2016 with Quarter Mile Buffer >
-  Designated River Corridor >
- Outstanding Resource Water Watersheds >
- National Wetlands Inventory Layers
- Wildlife Action Plan Layers
- Fish Species of Concern Present in Stream 🔍 >
- Wild Eastern Brook Trout Present in Stream 🔍 >
- Predicted Cold Water Fishery 🔍 >
- Highest Ranked Wildlife Habitat >
- Wildlife Habitat Land Cover >
- Marsh-Scrub / Shrub Wetlands >
- FEMA Floodplains >
- Hydric Soils >
- Soil Drainage Classification >
- Watershed Drainage Area (sq. mile) 🔍



Resource Planning Layers: Designated River Corridors

Designated River Corridor



River: Piscassic River

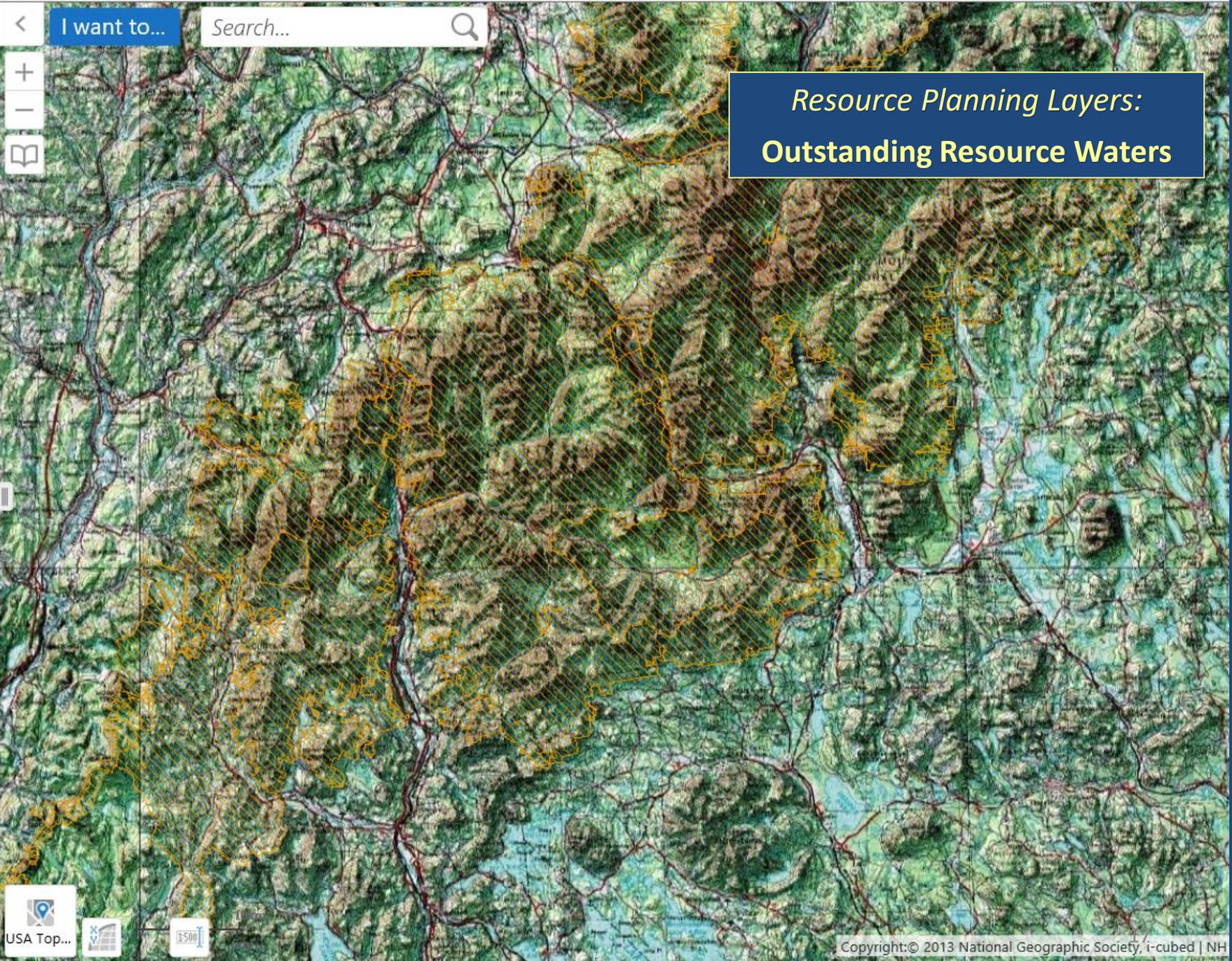
Local Advisory Committee (LAC): [LAC page](#)Contact Info: [Piscassic River LAC](#)Fact Sheet: [Piscassic River Fact Page](#)[Metadata](#)[View Additional Details](#) [Add to Results](#)

Choose a wetlands permit theme here or check layers below



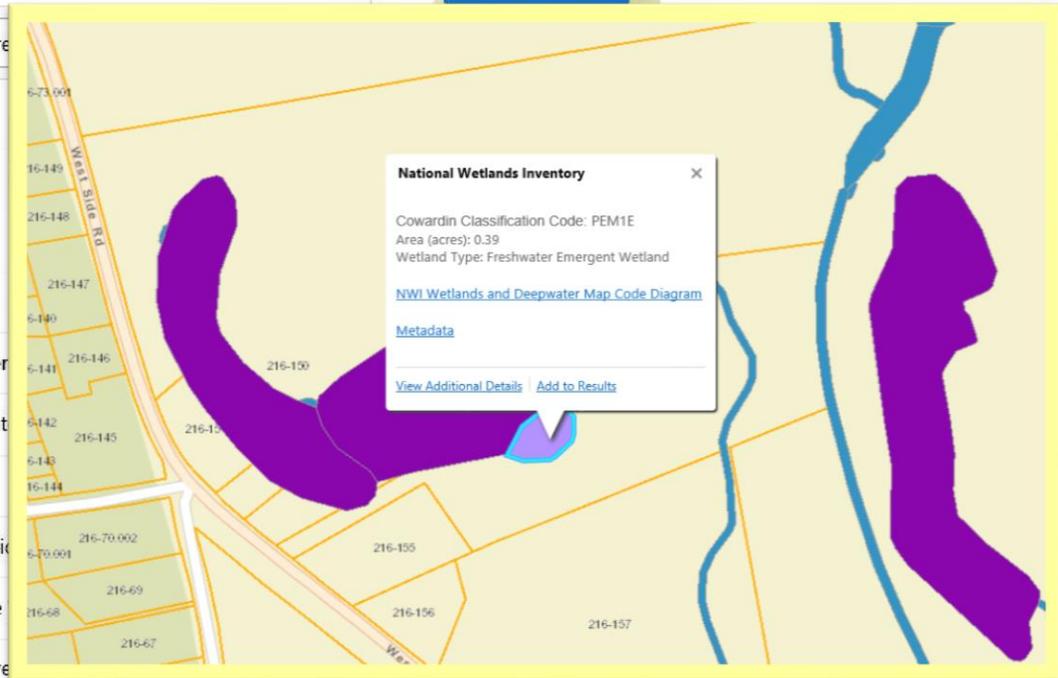
- Basemaps
- Coastal Layers
- Mitigation Layers
- Priority Resource Areas
- Resource Planning Layers**
- Potentially Contaminated Sites:
- Impaired Waters
- Designated River Corridor
-  Outstanding Resource Water Watersheds
- National Wetlands Inventory Layers
- Wildlife Action Plan Layers
- FEMA Floodplains
- Hydric Soils
- Soil Drainage Classification
- Watershed Drainage Area (sq. mile)

*Resource Planning Layers:
Outstanding Resource Waters*

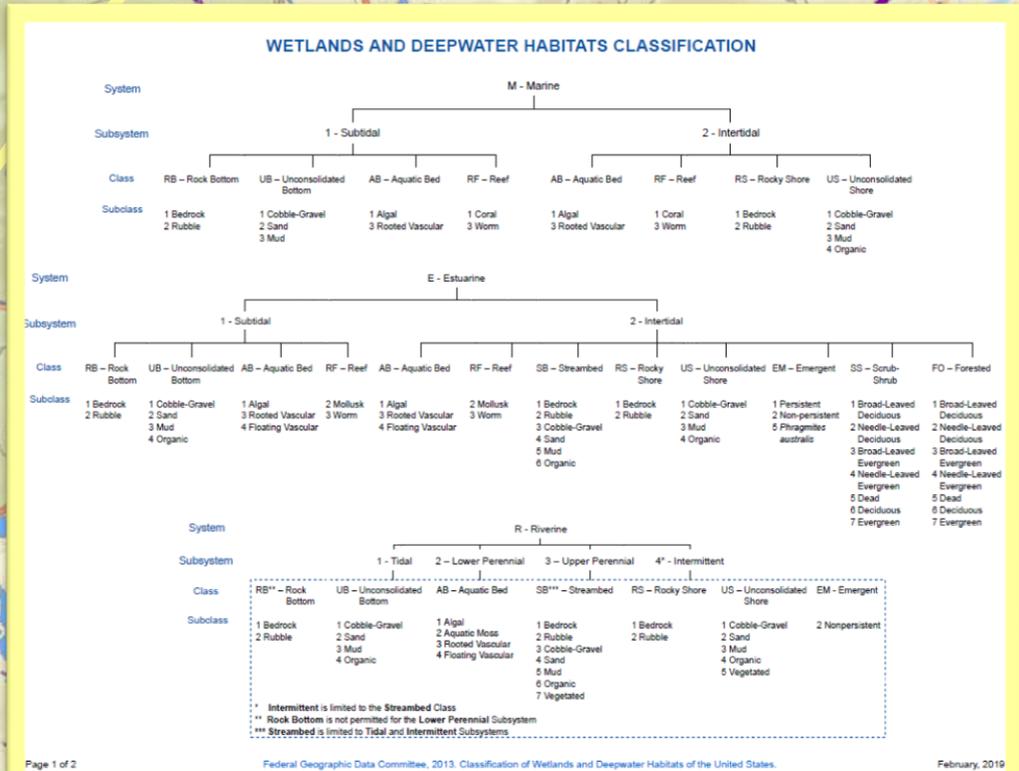


Choose a wetlands permit theme here

- Basemaps
- Coastal Layers
- Mitigation Layers
- Priority Resource Areas
- Resource Planning Layer
- Potentially Contaminated
- Impaired Waters
- Designated River Corridor
- Outstanding Resource
- National Wetlands Inventory
- NWI
- NWI-Plus
- Wildlife Action Plan
- FEMA Floodplains
- Hydric Soils
- Soil Drainage Classification
- Watershed Drainage Area (sq. mile)



**Resource Planning Layers:
National Wetland Inventory
NWI and NWI-Plus**



Note:
Grey italicized text indicates that you're not yet zoomed to the visible extent of the layer

Choose a wetlands permit theme here or check layers below



0.6km
0.4mi

Priority Resource Areas

Resource Planning Layers

+ Potentially Contaminated Sites:

+ Impaired Waters

Designated River Corridor

Outstanding Resource Water Watersheds

+ National Wetlands Inventory Layers

- Wildlife Action Plan Layers

Fish Species of Concern Present in Stream

Wild Eastern Brook Trout Present in Stream

Predicted Cold Water Fishery

Highest Ranked Wildlife Habitat

Wildlife Habitat Land Cover

Marsh-Scrub / Shrub Wetlands

FEMA Floodplains

Hydric Soils

Soil Drainage Classification

Watershed Drainage Area (sq. mile)

Resource Planning Layers:

Wildlife Action Plan

Fish Species of Concern

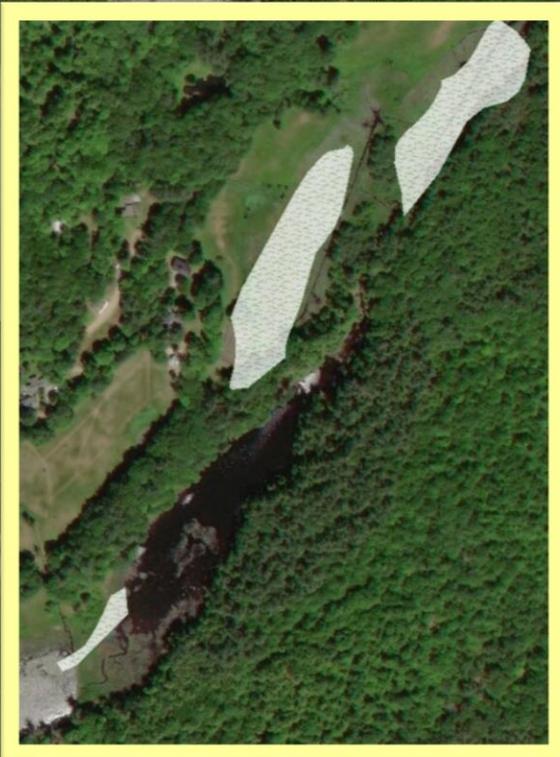
Wild Eastern Brook Trout

Predicted Cold Water Fisheries

Choose a wetlands permit theme here or check layers below

- Priority Resource Areas
- Resource Planning Layers**
- + Potentially Contaminated Sites:
- + Impaired Waters
- Designated River Corridor
- Outstanding Resource Water Watersheds
- + National Wetlands Inventory Layers
- **Wildlife Action Plan Layers**
 - Fish Species of Concern Present in Stream
 - Wild Eastern Brook Trout Present in Stream
 - Predicted Cold Water Fishery
 - Highest Ranked Wildlife Habitat
 - Wildlife Habitat Land Cover
 -  Marsh-Scrub / Shrub Wetlands
 - FEMA Floodplains
 - Hydric Soils
 - Soil Drainage Classification
 - Watershed Drainage Area (sq. mile)

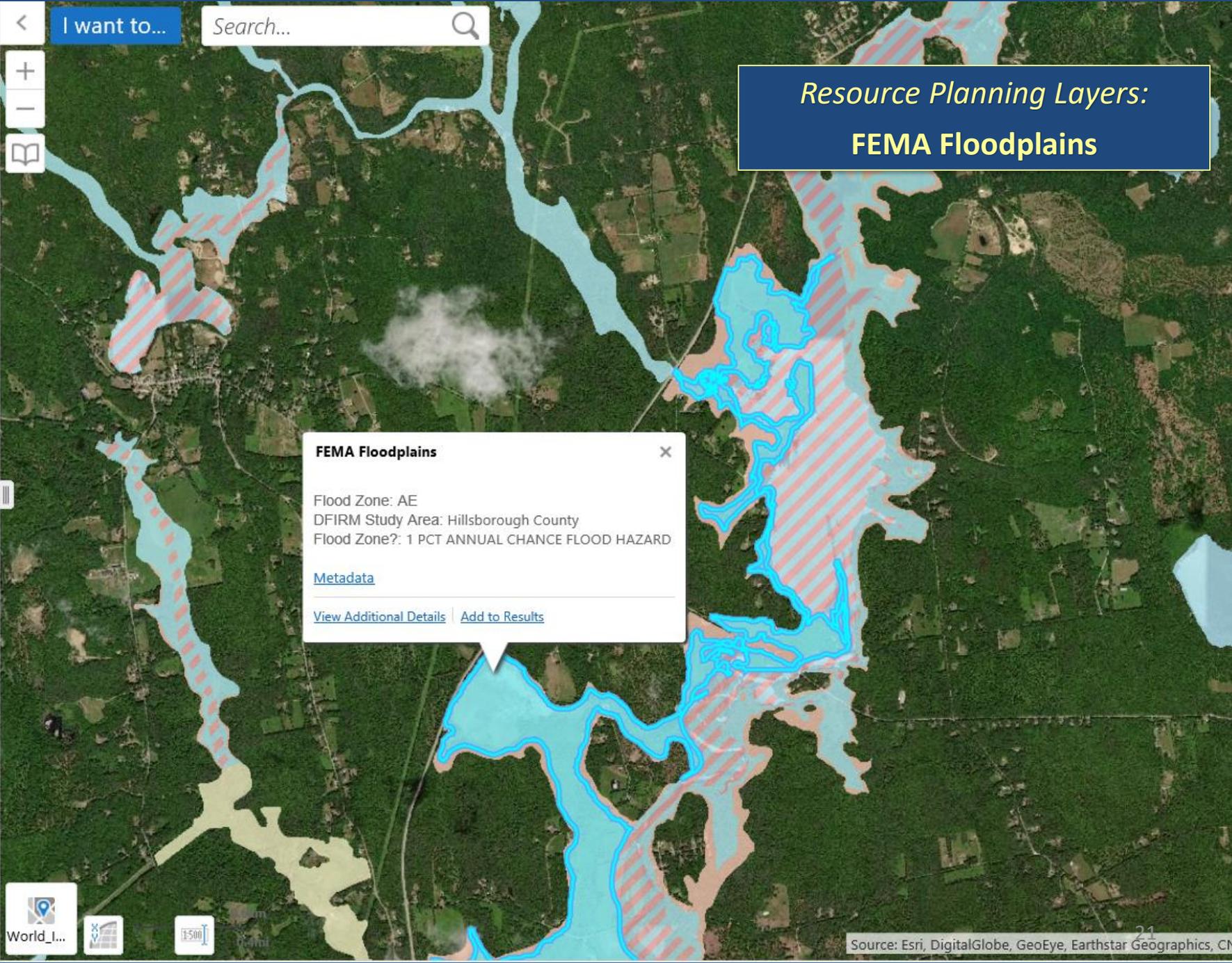
Resource Planning Layers:
Wildlife Action Plan Layers
 Highest Ranked Habitat
 Habitat Land Cover Type
 Marsh-Scrub-Shrub Wetlands



Choose a wetlands permit theme here or check layers below

- Coastal Layers
- Mitigation Layers
- Priority Resource Areas
- Resource Planning Layers**
- Potentially Contaminated Sites
- Impaired Waters
 - Designated River Corridor
 - Outstanding Resource Water Watersheds
- National Wetlands Inventory Layers
- Wildlife Action Plan Layers
- FEMA Floodplains**
 - 1 pct. Annual Chance Flood Hazard
 - Floodway
 - 0.2 pct. Annual Chance Flood Hazard
 - Area of Undetermined Flood Hazard
 - Area Protected by Levee
- Hydric Soils
- Soil Drainage Classification
- Watershed Drainage Area (sq. mile)

Resource Planning Layers:
FEMA Floodplains



FEMA Floodplains

Flood Zone: AE
 DFIRM Study Area: Hillsborough County
 Flood Zone?: 1 PCT ANNUAL CHANCE FLOOD HAZARD

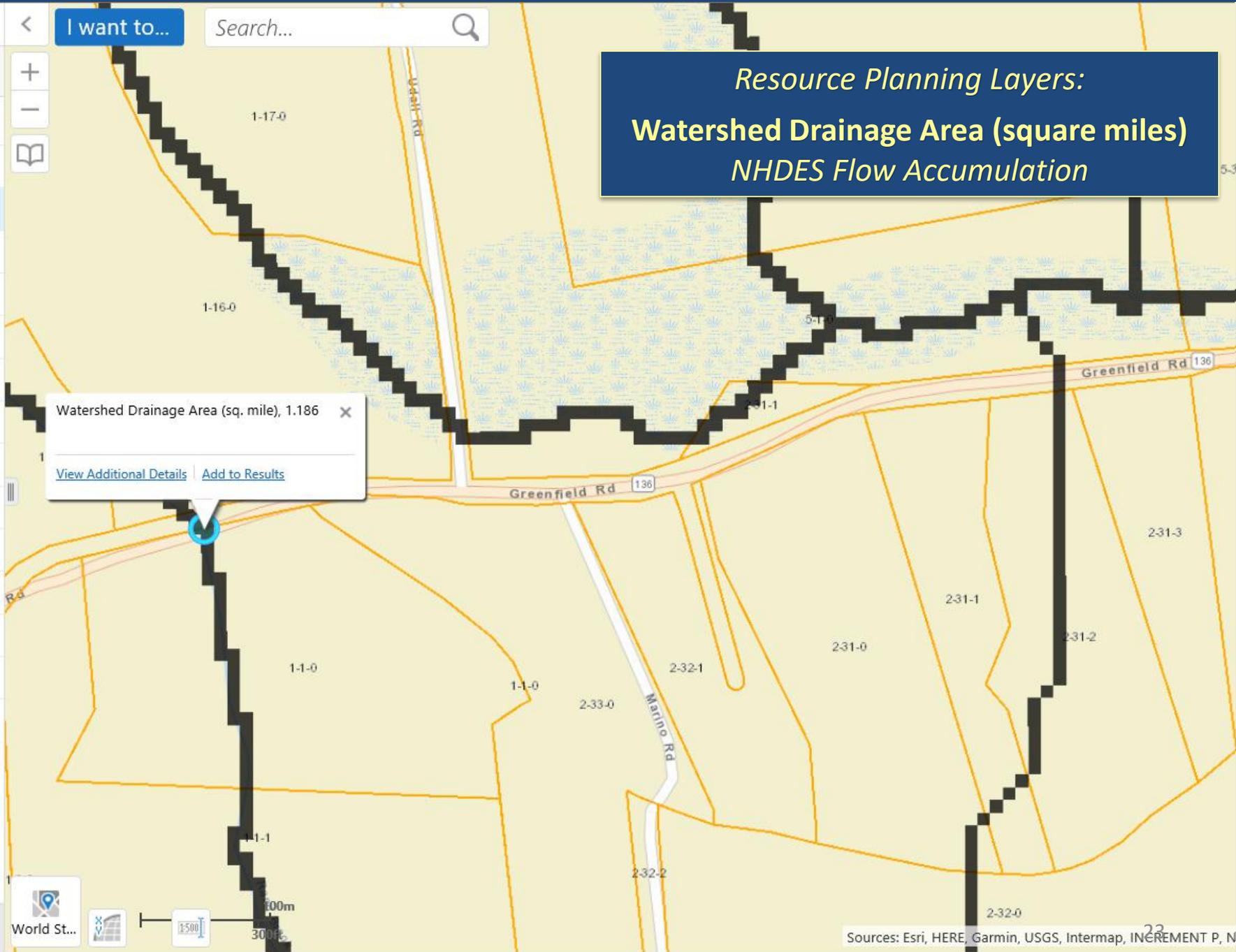
[Metadata](#)

[View Additional Details](#) | [Add to Results](#)

Choose a wetlands permit theme here or check layers below

- Basemaps
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- Watershed Drainage Area (sq. mile)

Resource Planning Layers:
Watershed Drainage Area (square miles)
NHDES Flow Accumulation



WPPT – Highlights!

Wetland and Shoreland Permit Data.

Prime Wetlands.

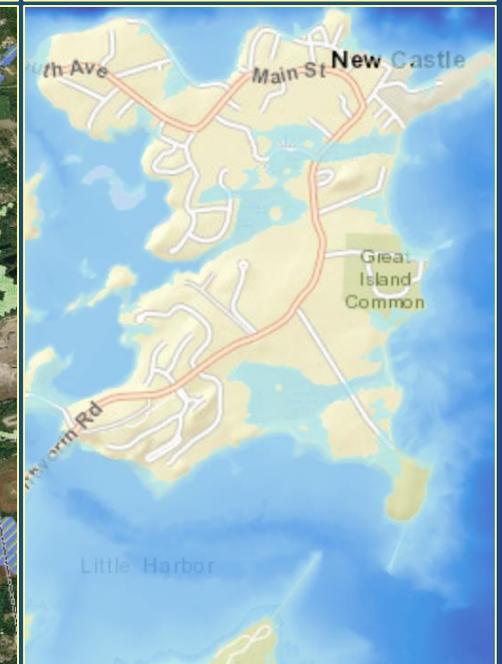
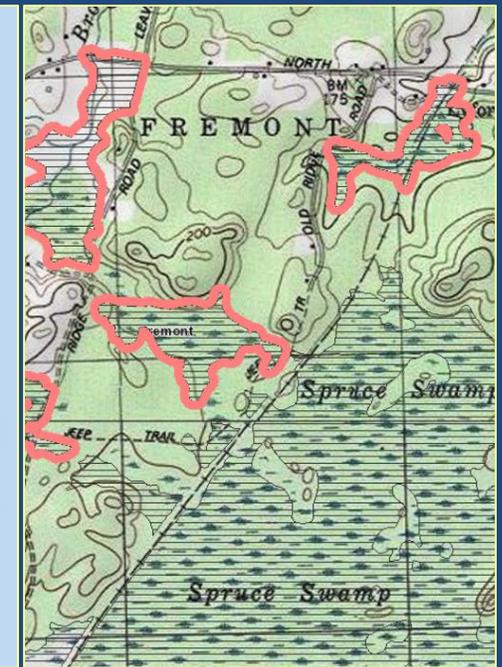
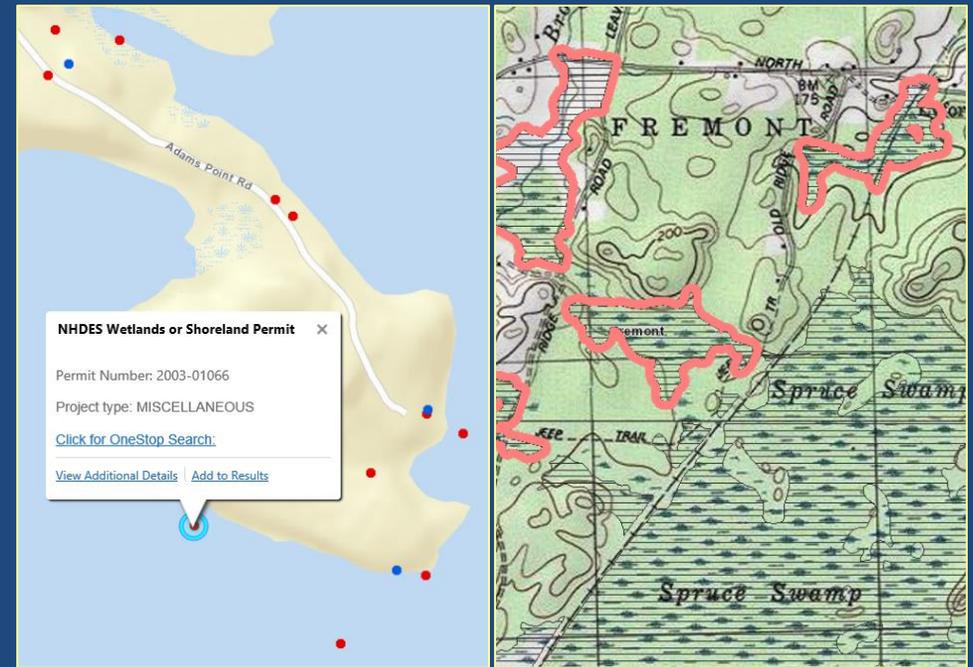
Priority Resource Areas.

Coastal Layers.

Pop-Ups and Links.

OneStop Query

Metadata





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Feedback:

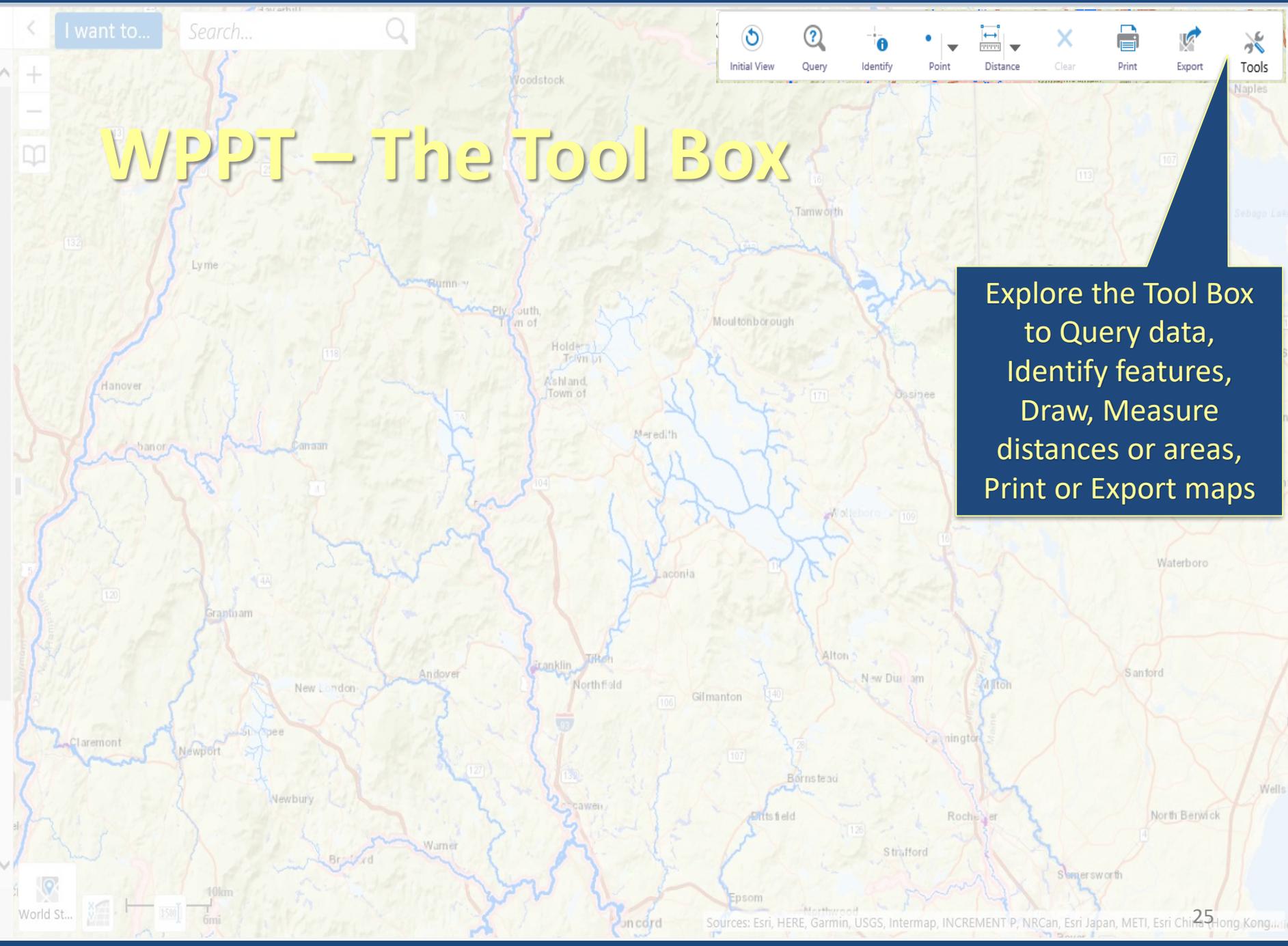
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WPPT – The Tool Box

Explore the Tool Box to Query data, Identify features, Draw, Measure distances or areas, Print or Export maps

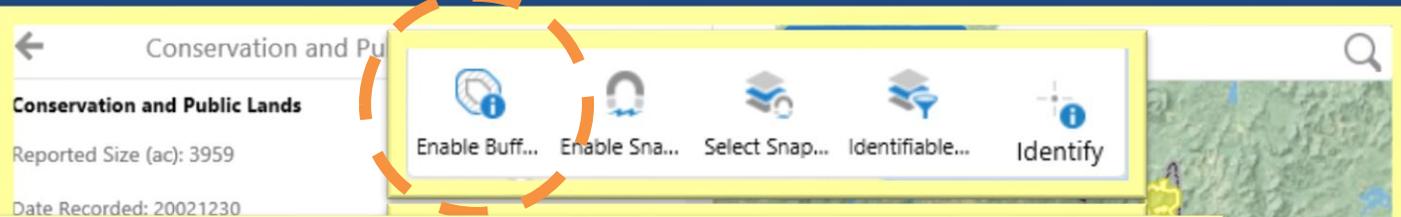


WPPT – Tools & Products

Query Data

Identify Features

Print a Map



NHDES Wetlands Permit Planning Tool

Select Layout: 8.5 x 11 landsc
Output Form: Pdf
Resolution: 150 dpi
Grid: (None)
Map Scale: 1:24,000
Map Title: NHDES Wet
Map Notes: THANK YOU
 Lock print

Legend: Parcel Mosaic

Map Notes: THANK YOU!

0.9 0 0.44 0.9 Miles
WGS_1984_Web_Mercator_Auxiliary_Sphere
© Latitude Geographics Group Ltd.
This map is a user generated static output from the web-based NHDES Wetlands Permit Scanning Tool and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. No map should be printed with scale 1 to less than 7,500. THIS MAP IS NOT TO BE USED FOR NAVIGATION

WPPT – Additional Resources

User Guide

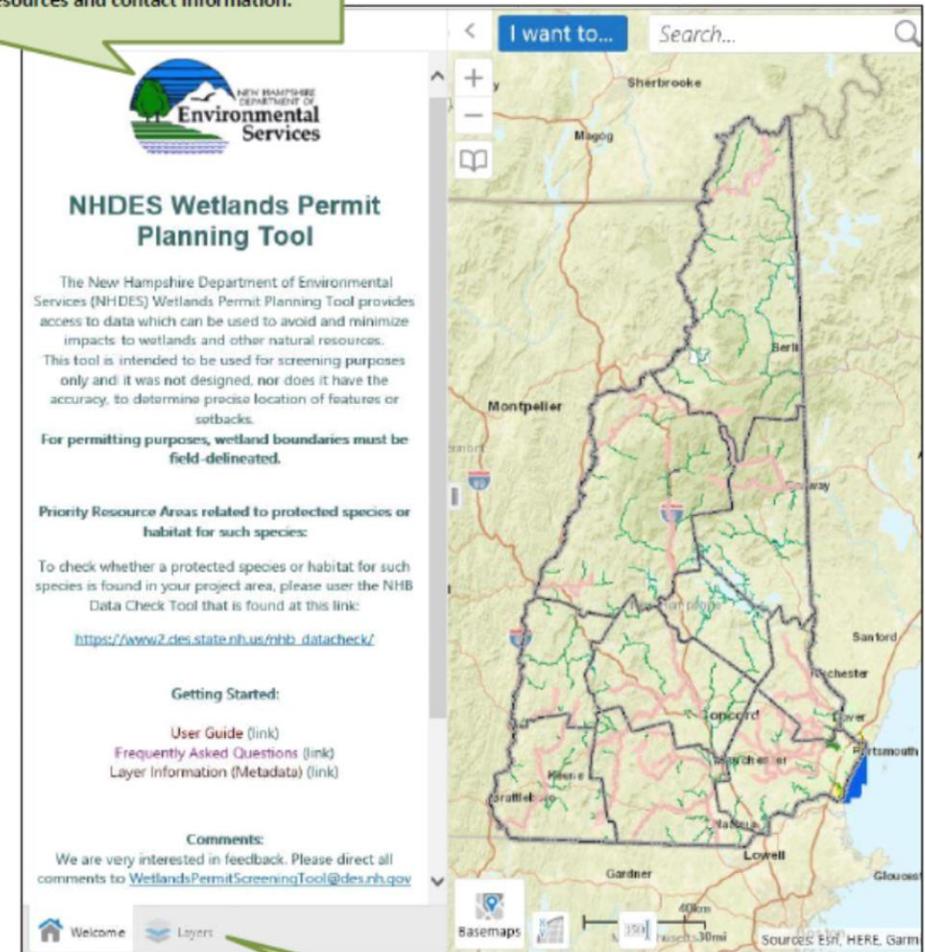
- Links to metadata.
- System requirements.
- Layer Organization.
- Tools.
- Themes.
- Use-Case Scenarios.



Getting Started: The NHDES Wetlands Permit Planning Tool (WPPT)

The Welcome panel, on the left-hand side of the screen, contains links to helpful resources and contact information.

❖ Before accessing the Wetlands Permit Planning Tool, the user must read and acknowledge the disclaimer screen.



Select the Layers tab at the bottom of the Welcome panel to access the 60+ data layers included with the Wetlands Permit Planning Tool.

WPPT – Additional Resources

Metadata

- Direct links within many of the pop-up windows.
- NHDES Data Layers.
- NH GRANIT Data Layers.

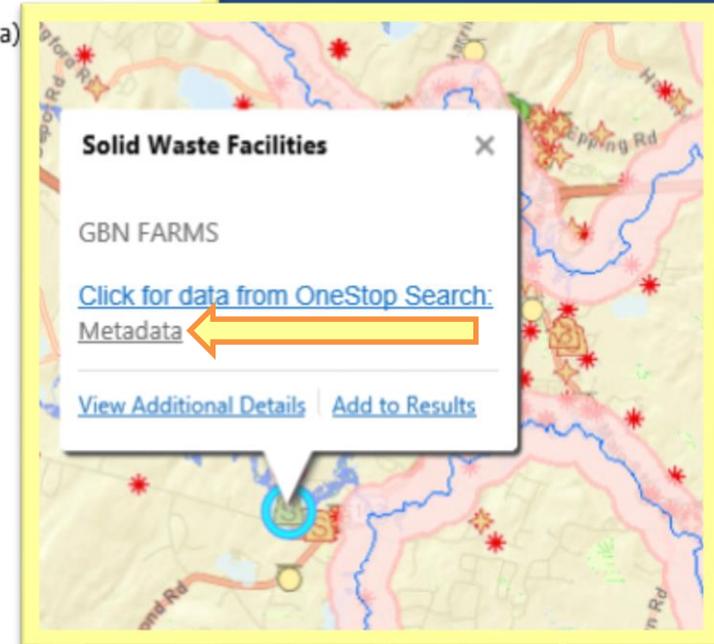


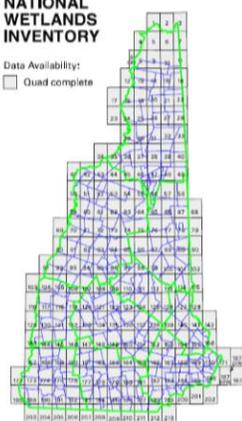
NHDES Home > [OneStop Data and Information](#)>

OneStop Data Mapper Layers and Metadata

Click each layer name for layer information (metadata)

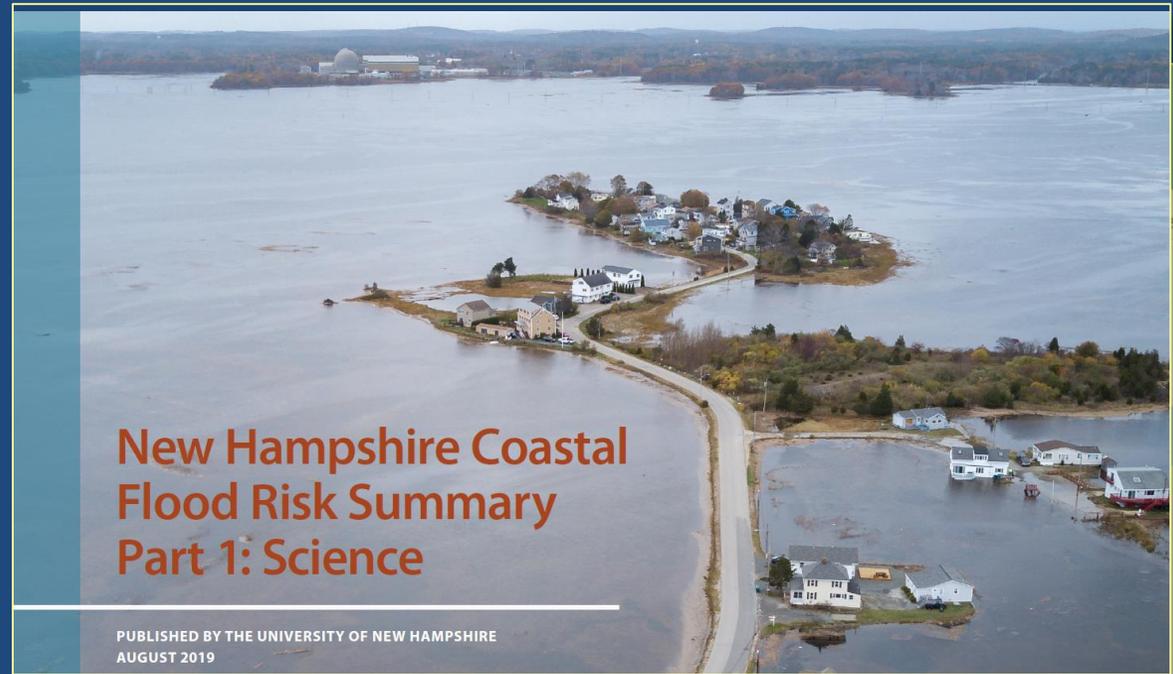
- [Aboveground Storage Tank Sites](#)
- [Air Facility Systems](#)
- [Asbestos Disposal Sites](#)
- [Automobile Salvage Yards](#)
- [Dams](#)
- [Environmental Monitoring Sites](#)
- [Groundwater Classification Areas GAA*](#)
- [Groundwater Classification Areas GA1](#)
- [Groundwater Classification Areas GA2](#)
- [Hazardous Waste Generators](#)
- [Local Potential Contamination Sources](#)
- [NPDES Outfalls](#)
- [Outstanding Resource Water Watersheds](#)
- [Public Water Supply Wells*](#)
- [Registered Water Users*](#)
- [Remediation Sites](#)
- [Solid Waste Facilities](#)
- [Source Water Protection Areas*](#)
- [Surface Water Impairments with 1-Mile Buffer](#)
- [Underground Storage Tank Sites](#)
- [Water Supply Intake Protection Areas*](#)
- [Water Well Inventory*](#)
- [Wellhead Protection Areas*](#)



<p>NATIONAL WETLANDS INVENTORY</p> <p>Data Availability: <input type="checkbox"/> Quad complete</p> 	<p>Date Layer: NATIONAL WETLANDS INVENTORY</p> <p>Primary Layer Name: NWPT Data Content: WETLAND AREAS Data Structure: VECTOR Layer Type: POSITIVE LINE</p> <p>Source: US FISH AND WILDLIFE SERVICE Source Scale: 1:24,000/1:25,000 Source Media: DIGITAL</p> <p>Automated By: US FWS Coordinate Reference: NH State Plane Feet Horizontal Datum: 1983 Tile: 7.5-MINUTE QUADRANGLE</p> <p>Status: COMPLETE Last Revision: Summer, 2001 Available From: Complex Systems Research Center, UPR</p> <p>Associated Coverages: NWPT</p> <p>GENERAL DESCRIPTION</p> <p>Wetlands mapping by the US Fish and Wildlife Service in New Hampshire was started in the late 1970's. Approximately 25 percent of the state was completed at that time. Due to a lack of adequate aerial photography, this mapping was not finished. With the availability of new photography in 1985 and 1986, and additional funding, the US FWS restarted this project, resampling areas of the state done previously and completing those areas that had not been mapped earlier. Full coverage of the state became available as published maps in 1991.</p> <p>The wetlands are classified using the Cowardin System.</p> <p>The maps were automated by the US Fish and Wildlife Service and posted to an ftp site. The files were retrieved from that site by Complex Systems, and processed as necessary to comply with GRANIT standards. Generally, each quad map was automated into two coverages - a combined polyline coverage and a corresponding point coverage.</p> <p>It should also be noted that the NH Fish and Game Department and the National Forest Service completed a mapping project, using aerial photo interpretation, of all wetlands in the White Mountain National Forest. The classification system used is the same as that employed by US FWS.</p> <p>September, 2001</p>
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Additional Coastal Resources

- Shoreline Suitability Assessment
- NH Coastal Flood Risk Summary
Part I: Science
Part II: Guidance (draft)
- NH Coastal Viewer
Resilient Tidal Crossings Project
- NH Coastal Program



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APPENDIX 2 – WORKSHEET

NEW HAMPSHIRE COASTAL FLOOD RISK SUMMARY

PART II: GUIDANCE FOR USING COASTAL FLOOD RISK PROJECTIONS

WORKSHEET

This worksheet is intended to help you work through the seven steps associated with the New Hampshire Coastal Flood Risk Summary, Part II: Guidance (*NHCFR Guidance*) in Coastal Zone municipalities.⁴⁷ The *NHCFR Guidance* data needed to fill out this worksheet.

WPPT - Summary

1) Goals & Background:

Designed to inform avoidance, minimization and mitigation strategies

2) Tour: Datasets, Organization & Tools:

Some familiar, some new

Themes, PRAs, Creating Maps

3) Additional Resources:

WPPT User Guide, Coastal Guidance

Thank you for your time.



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