

# CLA Engineers, Inc.

Civil • Structural • Survey

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February 27, 2026

Douglas K. Brush, Chair  
Inland Wetlands Commission  
Town of Montville  
310 Norwich-New London Turnpike  
Uncasville, CT 06382

Re: Town of Montville  
Butlertown Road Improvements  
Butlertown Road  
Oakdale, CT 06370  
CLA-7928

Dear Mr. Brush:

On behalf of the Town of Montville, CLA Engineers has performed a delineation and functional evaluation of the inland wetlands at the referenced site and assessed the site to provide a basis for determining the potential for impacts associated with the proposed improvements to Butlertown Rd. Details of the proposed development parcel are presented in the site plans.

The inland wetland boundary was delineated by R. Russo (CLA Engineers) in August of 2024. The wetland boundary and proposed roadway improvements are shown on the plans prepared by CLA Engineers dated 2/27/2026. These data were augmented with additional online information from CTDEEP, USFWS, USGS, and the Town of Montville GIS Viewer.

## **Site Setting**

The project site consists of approximately 0.23 acres of Butlertown Road which starts 0.28 miles south of Sachatello Industrial Dr. The site is almost completely impervious and drains northward. An unnamed watercourse flows under this portion of Butlertown Road, which is a tributary to Latimer Brook, the Niantic River and Long Island Sound.

The surrounding parcels are zoned as residential (R-60), light industrial (LI), and industrial (I District). These consist of single-family homes, industrial buildings, and equipment parking and staging areas.

## Soils

The upland soils mapped by NRCS are listed in the table below. There are no hydric soils mapped on the property by NRCS. Additional descriptive details are provided in an NRCS soil report included as Appendix A.

**Table 1 - Soil Types and Properties at the Butlertown Road Site**

<u>Soil Series</u>	<u>Parent Material</u>	<u>Drainage Class</u>	<u>Texture/Characteristics</u>
Woodbridge	Coarse-loamy lodgment till	Well Drained	Fine sandy loam to gravelly fine sandy loam

The Woodbridge series consists of moderately well drained loamy soils formed in lodgment till. They are nearly level to moderately steep soils on hills, drumlins, till plains, and ground moraines.

## Wetland Characteristics

### **Classification**

The National Wetlands Inventory

(NWI <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>) does show the onsite wetland. The stream is classified as a R5UBH. The description of this classification is provided below.

### **Classification code: R5UBH**

**System Riverine (R)** : The Riverine System includes all wetlands and deepwater habitats contained within a channel, with two exceptions: (1) wetlands dominated by trees, shrubs, persistent emergents, emergent mosses, or lichens, and (2) habitats with water containing ocean-derived salts of 0.5 ppt or greater. A channel is an open conduit either naturally or artificially created which periodically or continuously contains moving water, or which forms a connecting link between two bodies of standing water.

**Subsystem Unknown Perennial (5)** : This Subsystem designation was created specifically for use when the distinction between lower perennial, upper perennial, and tidal cannot be made from aerial photography and no data is available.

**Class Unconsolidated Bottom (UB)** : Includes all wetlands and deepwater habitats with at least 25% cover of particles smaller than stones (less than 6-7 cm), and a vegetative cover less than 30%.

**Water Regime Permanently Flooded (H)** : Water covers the substrate throughout the year in all years.

## Wetland hydrology

There is one regulated area on the project site. This includes an unnamed watercourse that drains into Latimer Brook. This watercourse is hydrologically fed by a large wetland system to the east of the project site and by runoff coming from nearby development and Butlertown Road.

## **Factors important to functional assessment**

The following observations are important to the functional assessment and are listed here to provide context to the later discussion of functions and values.

1. Connecticut protected species are not known to be present on the site per the December 2025 update of the CTDEEP NDDB.
2. The local zoning is Residential (R-60), Light Industrial (LI), and Industrial (I District) per the Town GIS, and the surrounding parcels appear to be used for single-family residences, industrial buildings, and parking areas.
3. The wetland is underlain by glacial lodgment till around its edges per available online mapping. Detailed soil mapping from the U.S. Web Soil Survey is included within Appendix A.
4. Runoff from the road currently enters the stream during rain events
5. This water course feeds into Latimer Brook, which according to CTDEEP surveys, has sensitive species such as wild brook trout and wild rainbow trout. This data is shown in Appendix D.
6. This site is within the watershed of cold-water sites which is important habitat for sensitive fish species like trout. A map provided by CTDEEP can be found in Appendix E.

## **Principal functions**

The functional assessment was conducted using the USCAE Highway Methodology (<https://www.nae.usace.army.mil/Portals/74/docs/regulatory/Forms/HighwaySupplement6Apr2015.pdf>). It is important to note that this functional assessment was conducted during the winter, where signs of wetland functions can be less visible and obscured. The assessment is included as Appendix B and it revealed that the watercourse has the following principal functions:

1. **Fish and Shellfish Habitat:** This stream is classified as A for water quality and feeds into Latimer brook where wild rainbow and brook trout were documented by CTDEEP.
2. **Sediment/Toxicant Retention:** There are multiple industrial properties neighboring this wetland where equipment and materials are staged. These are all potential sources of toxicants.
3. **Production Export:** Due to channelized flow and dense vegetation around its edges, this wetland has the potential to export a lot of nutrients in the fall once plants let their leaves fall.
4. **Sediment/Shoreline Stabilization:** This stream has distinct stable banks with many plant roots stabilizing it. Given the development nearby and steep slopes above it, there are sources of sediment that this wetland stabilizes.

5. **Wildlife Habitat:** Although the site visit was conducted during the winter, aerial imagery helped determine that this wetland is surrounded by dense vegetation and has food sources available for wildlife to feed on.

## Potential for Impacts

As shown on the project plans, the following activities are planned.

1. Implementation of inlet sedimentation control devices during construction and installation of a Contech Cascade model CS-4 with grated inlet that will collect drainage and filter suspended solids and sediments from Butlertown Rd
  - a. Deep sump catch basin installation
  - b. 19' of 12" of corrugated HDPE pipe connecting two inlets
  - c. 12' of corrugated HDPE pipe core drilled into existing culvert pipe with watertight seal
2. Full depth pavement reclamation
3. Implementation of a 4" epoxy resin double yellow line
4. Tree removal
5. Shoulder grading
6. Implementation of multiple vegetated swales
7. Construction of bituminous concrete driveway aprons
8. Installation of cape cod berms
9. Installation of approximately 67ft of metal beam guard rail

The proposed activities outlined above may impact the regulated resource's principal functions in the following ways:

1. **Fish and Shellfish Habitat:** The proposed activity should not affect this wetland function. This project would further protect this function by adding an inlet sedimentation control device to prevent any sediments from draining into the watercourse. Currently the water and any sediments/pollutants from Butlertown Rd. run off the bridge and down the slope directly to the stream with no treatment.
2. **Sediment/Toxicant Retention:** This project will not have any direct effects on this watercourse sediment/toxicant retention function. Graded slopes will be loamed, seeded, fertilized, and mulched for permanent stabilization. Multiple vegetated swales will also be installed at locations along Butlertown Road to catch runoff and sediments from the road before it can reach the watercourse. Work close to the intermittent watercourse also has silt fence downslope of the proposed work.
3. **Production Export:** CLA expects there will be no alterations to the watercourses production export function. No vegetation removal or disturbance will occur in the wetlands.
4. **Sediment/Shoreline Stabilization:** Since the wetland will not be directly altered, there should be no impact to this function provided E&S measures are functioning properly.
5. **Wildlife Habitat:** No vegetation or any habitat in or near the wetlands will be altered, maintaining this function.

**Summary**

This project proposes improvements and enhancements to drainage on Butlertown Road. This would prevent runoff from Butlertown Road from entering directly into the stream without treatment. If proper erosion and sedimentation controls are installed according to the site plans, we do not anticipate the proposed development will have any impact on the functionality of the onsite wetlands as described above.

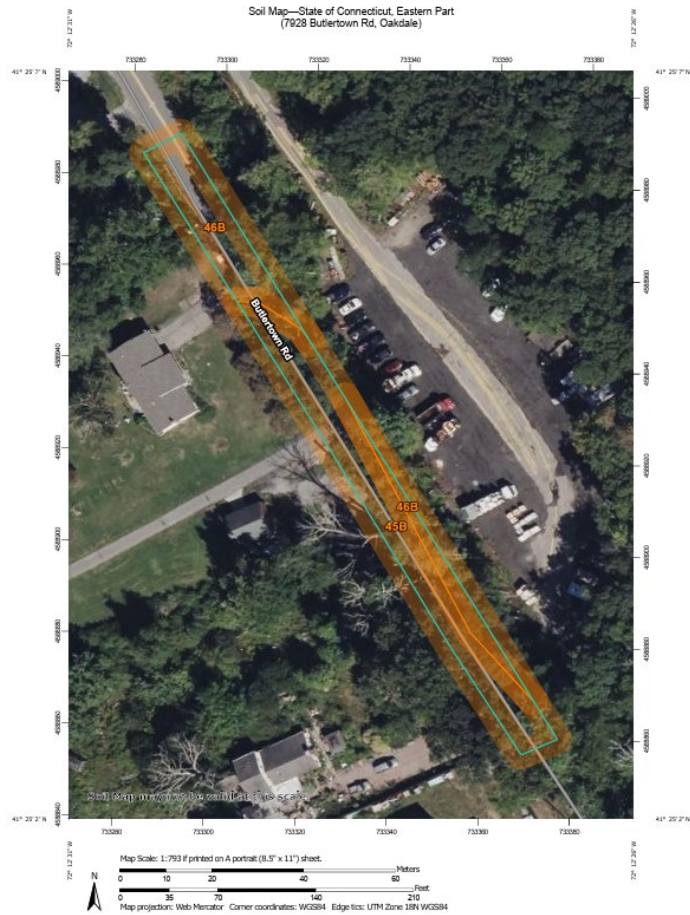
Sincerely,

*Robert C Russo*

Robert C. Russo  
Soil Scientist, CLA Engineers  
Norwich, CT

# Appendix A: Soil Maps

From USGS Web Soil Survey



### MAP LEGEND

<p><b>Area of Interest (AOI)</b></p> <p> Area of Interest (AOI)</p> <p><b>Soils</b></p> <p> Soil Map Unit Polygons</p> <p> Soil Map Unit Lines</p> <p> Soil Map Unit Points</p> <p><b>Special Point Features</b></p> <p> Blowout</p> <p> Borrow Pit</p> <p> Clay Spot</p> <p> Closed Depression</p> <p> Gravel Pit</p> <p> Gravelly Spot</p> <p> Landfill</p> <p> Lava Flow</p> <p> Marsh or swamp</p> <p> Mine or Quarry</p> <p> Miscellaneous Water</p> <p> Perennial Water</p> <p> Rock Outcrop</p> <p> Saline Spot</p> <p> Sandy Spot</p> <p> Severely Eroded Spot</p> <p> Sinkhole</p> <p> Slide or Slip</p> <p> Sodic Spot</p>	<p> Spoil Area</p> <p> Stony Spot</p> <p> Very Stony Spot</p> <p> Wet Spot</p> <p> Other</p> <p> Special Line Features</p> <p><b>Water Features</b></p> <p> Streams and Canals</p> <p><b>Transportation</b></p> <p> Rails</p> <p> Interstate Highways</p> <p> US Routes</p> <p> Major Roads</p> <p> Local Roads</p> <p><b>Background</b></p> <p> Aerial Photography</p>
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### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut, Eastern Part  
Survey Area Data: Version 6, Sep 16, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 14, 2022—Oct 6, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
45B	Woodbridge fine sandy loam, 3 to 8 percent slopes	0.2	61.3%
46B	Woodbridge fine sandy loam, 0 to 8 percent slopes, very stony	0.1	38.7%
<b>Totals for Area of Interest</b>		<b>0.3</b>	<b>100.0%</b>

# Appendix B: Army Corps Wetland Assessment Sheets

## Wetland Function-Value Evaluation Form

Total area of wetland 3,500 ft<sup>2</sup> Human made? NO Is wetland part of a wildlife corridor? NO or a "habitat island"? NO  
 Adjacent land use Residential (R-60) Industrial (I-1) Light Industrial (LI) Distance to nearest roadway or other development 21-7 Rd  
 Dominant wetland systems present RSURH Contiguous undeveloped buffer zone present NO  
 Is the wetland a separate hydraulic system? NO If not, where does the wetland lie in the drainage basin? LOW  
 How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 7928  
 Latitude 41.41821 Longitude -72.2084  
 Prepared by: ML Date 2/1/2006  
 Wetland Impact: Type \_\_\_\_\_ Area \_\_\_\_\_

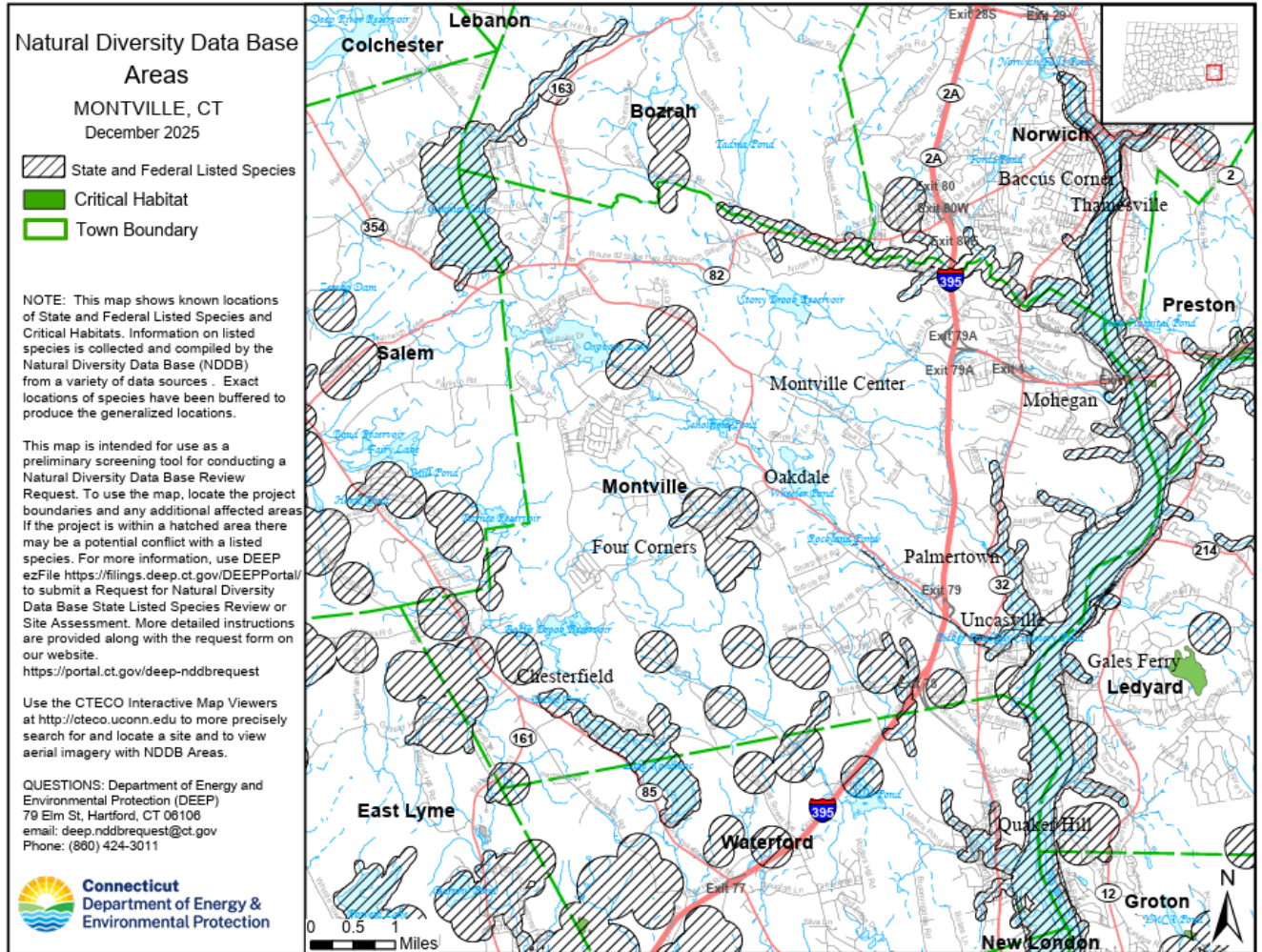
Evaluation based on:  
 Office  Field \_\_\_\_\_  
 Corps manual wetland delineation completed? Y  N

Function/Value	Suitability Y/N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	N	1,2,17		Some private wells nearby but wetland underlain by fine material and thick till.
Floodflow Alteration	Y	3,5,9,13,15,19		Dense vegetation along the sides could slow some flow but further likely analysis east due to diversion in stream & bank track found downstream in CT deep surveys
Fish and Shellfish Habitat	Y	1,4,7,8,12,14,15,16		Industrial property and storage areas cause wetlands
Sediment/Toxicant Retention	Y	1,2,4,6,8,9,10,16		Dense vegetation may attenuate vegetation on the way down but once in stream, it would be transferred
Nutrient Removal	Y	3,4,5,7,8,9,11		likely over 1/2 of detritus in the fall are leaves from cut trees
Production Export	Y	1,6,7,8,10,14		stream has abundant stable bank and less till or vegetation at its edge
Sediment/Shoreline Stabilization	Y	2,3,6,8,9,12,13		Hard to determine in winter conditions but overall there is dense vegetation and possible food sources for wildlife
Wildlife Habitat	Y	2,6,8,13,14		Area is near riparian sites and stream flows to access wetland
Recreation	N	S		Not safe for educational purposes
Educational/Scientific Value	N			wetland does not have unique qualities
Uniqueness/Heritage	N			Not visible during the growing season due to dense vegetation
Visual Quality/Aesthetics	N			Not visible during the growing season due to dense vegetation
ES Endangered Species Habitat	N			No CT listed species present
Other				

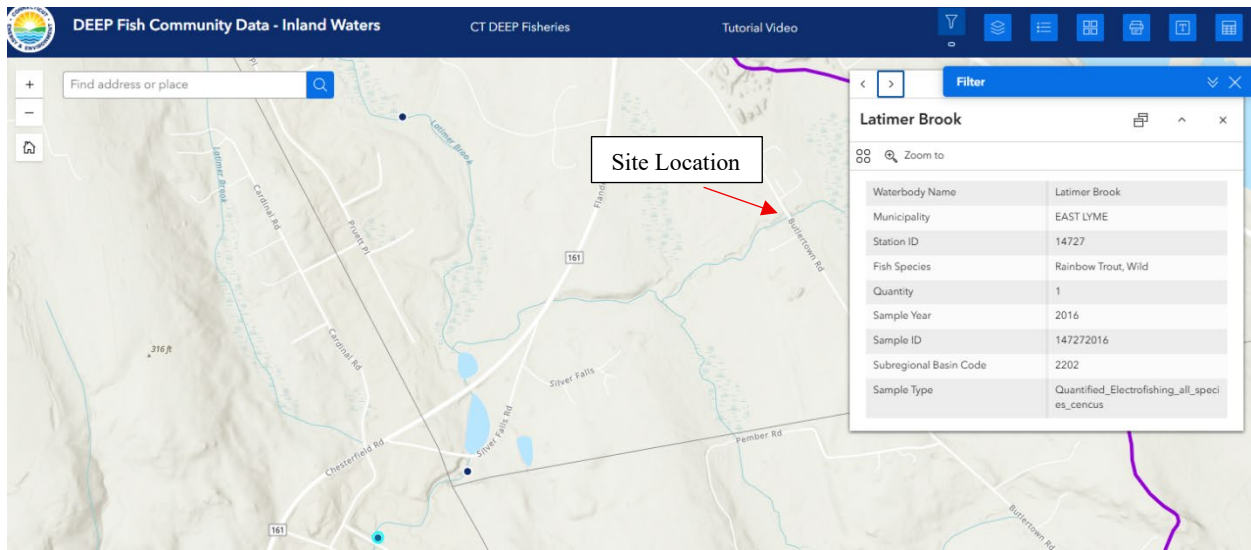
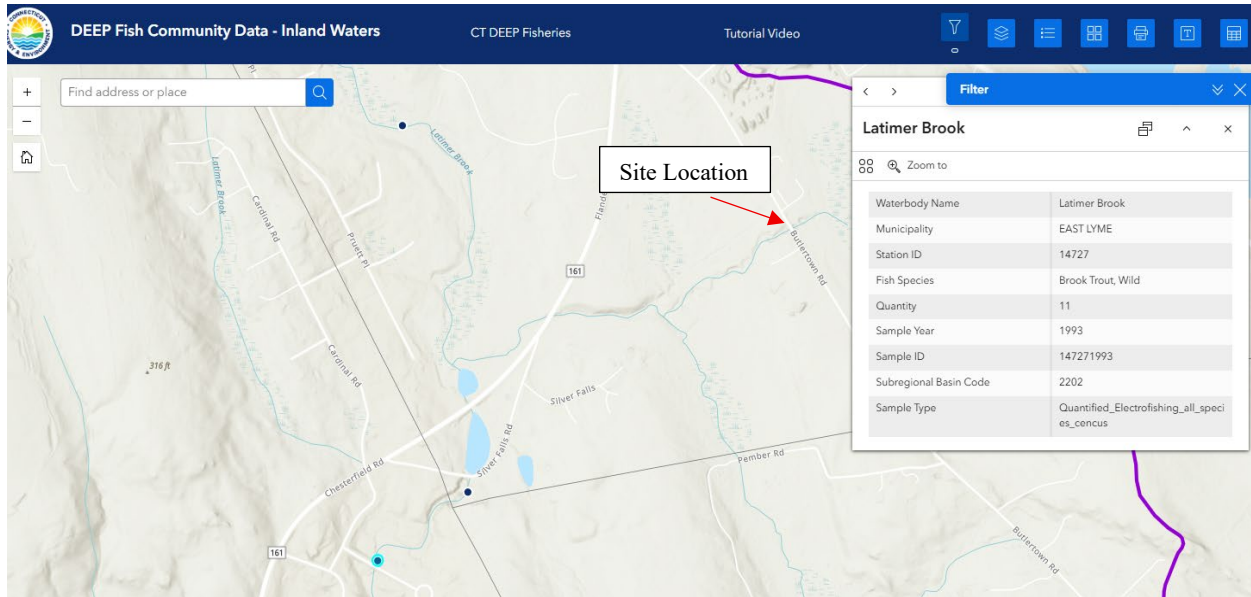
Notes: \* Refer to backup list of numbered considerations.

# Appendix C: Natural Diversity Data Base Map

Town of Montville, CT



# Appendix D: CTDEEP Fish Community Data



# Appendix E: CTDEEP Cold Water Habitat Map

