

JOSEPH R. THEROUX

~ CERTIFIED FORESTER/ SOIL SCIENTIST ~
PHONE 860-428-7992 ~ FAX 860-376-6842
P.O. BOX 32, VOLUNTOWN, CT. 06384
FORESTRY SERVICES ~ WETLAND IMPACT ASSESSMENTS
WETLAND DELINEATIONS AND PERMITTING ~ E&S/SITE MONITORING
WETLAND FUNCTION/VALUE ASSESSMENTS

3/22/2022

MR. JIM BERNARDO BERNARDO SURVEYING LLC 102-A SPITHEAD RD. WATERFORD, CT. 06385

RE: WETLAND DELINEATION, 69 FITCH HILL ROAD, MONTVILLE, CT.

DEAR MR. BERNARDO,

AT YOUR REQUEST I HAVE DELINEATED THE INLAND WETLANDS AND WATERCOURSES ON THE ABOVE REFERENCED PROPERTY.

THESE WETLANDS HAVE BEEN DELINEATED IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL COOPERATIVE SOIL SURVEY AND THE DEFINITIONS OF WETLANDS AND WATERCOURSES AS FOUND IN THE CONNECTICUT STATUTES, CHAPTER 440, SECTION 22A-38.

FLUORESCENT PINK FLAGS WITH A CORRESPONDING LOCATION NUMBER DELINEATE THE BOUNDARY OF THE INLAND WETLANDS.

FLAG SERIES WF- 1 THROUGH WF-187 DELINEATE THE HIGH-WATER MARK OF TRADING COVE BROOK, IT'S ADJACENT FLOODPLAIN AND ALLUVIAL SOILS, PALUSTRINE FORESTED & SCRUB-SHRUB INLAND WETLANDS AND ASSOCIATED INTERMITTENT WATERCOURSES.

IN NUMEROUS AREAS ALONG THE DELINEATION LINE HISTORIC EXCAVATIONS DOWN TO OR NEAR THE WATER TABLE ADJACENT TO THE INLAND WETLANDS HAVE FORMED HYDRIC SOIL CONDITIONS. THIS IS DUE TO THE PROLONGED WETNESS FOUND FROM THE SEASONALLY HIGH/PERCHED WATER TABLES IN THESE AREAS.

THESE WETLAND SOILS ARE CHARACTERIZED BY SHALLOW REDOXIMORPHIC FEATURES AND LOW CHROMA COLORS WITHIN 20 INCHES OF THE SOIL SURFACE.

THIS WETLAND COMPLEX EXTENDS FROM THE NORTHEASTERN PROPERTY CORNER, TO THE SOUTHWEST ALONG THE WESTERN PROPERTY BOUNDARY WHERE IT TERMINATES IN THE SOUTHWEST CORNER OF THE PARCEL. IN THIS AREA STORMWATER DISCHARGES FROM THE DRAINAGE SYSTEM ASSOCIATED WITH

LEFFINGWELL ROAD AND FITCH HILL ROAD ADD TO THE HYDROLOGY OF THE WETLANDS.

IT SHOULD BE NOTED THAT IN THE AREA OF WETLAND FLAGS WF-1 17 THROUGH WF-1 27, RECENT GRADING/EXCAVATION ACTIVITY HAS ENCROACHED INTO THE WETLANDS WHERE HISTORIC EXCAVATION, GRADING AND FILLING HAD PREVIOUSLY OCCURRED.

ATTACHED IS AN AERIAL PHOTO TAKEN IN 1990 THAT DEPICTS THE PROPERTY AND THE EXTENT OF THE AREAS WHERE GRAVEL WAS REMOVED, AND INTRUSIONS INTO THE WESTERN WETLAND COMPLEX OCCURRED. THIS IS EVIDENCED BY THE DISCOVERY OF VARIOUS FILL MATERIALS IN LARGE MOUNDS, EXCAVATED DEPRESSIONS IN THE WETLANDS AND BURIED ORGANIC "A" HORIZONS.

UNDOUBTEDLY, THESE HISTORIC DISTURBANCES ALSO OCCURRED PRIOR TO 1990, AS THE ATTACHED NRCS SOILS MAP DEPICTS THE MAJORITY OF THE SITE, INCLUDING THE WETLANDS AS UDORTHENTS-URBAN LAND COMPLEX, WHICH ARE DISTURBED, EXCAVATED OR FILLED SOIL COMPLEXES.

WETLAND FLAGS WF-1A THROUGH 85A, WF1B THROUGH WF-13 B, WF-1C THROUGH WF-16C AND WF-1D THROUGH WF4D DELINEATE HYDRIC SOILS FOUND IN HISTORIC EXCAVATIONS AND GRADING INTO OR NEAR THE SEASONAL WATER TABLE IN THE CENTRAL PORTION OF THE PROPERTY.

TECHNICALLY THESE INLAND WETLANDS WOULD BE CLASSIFIED AS EMERGENT AND SCRUB-SHRUB WETLANDS.

THESE HYDRIC SOIL CONDITIONS HAVE FORMED DUE TO THE PROLONGED WETNESS FOUND FROM THE SEASONALLY HIGH/PERCHED WATER TABLES IN THESE AREAS.

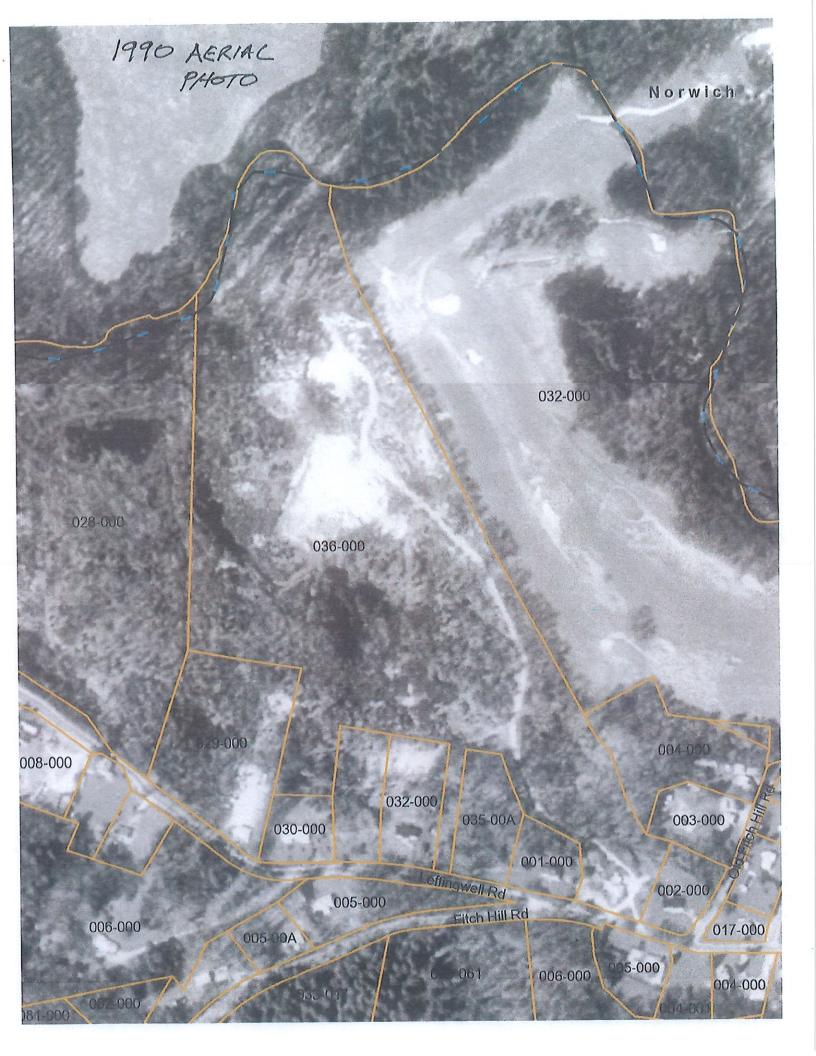
THESE WETLAND SOILS ARE CHARACTERIZED BY SHALLOW REDOXIMORPHIC FEATURES AND LOW CHROMA COLORS WITHIN 20 INCHES OF THE SOIL SURFACE.

IN CONCLUSION, IF YOU HAVE ANY QUESTIONS CONCERNING THE DELINEATION OR THIS REPORT, PLEASE FEEL FREE TO CONTACT ME.

THANK YOU,

Joseph R. Theroux

JOSEPH R. THEROUX CERTIFIED SOIL SCIENTIST MEMBER SSSSNE, NSCSS, SSSA.





MAP LEGEND

Spoil Area	Stony Spot	/ Very Stony Spot	of Wet Snot	A	□ Other	Special Line Features		Water Features	Streams and Canals	Transportation	+++ Rails	Interstate Highways	US Routes	Major Roads	Local Roads	Background	Aerial Photography				
Area of Interest (AOI)	Area of Interest (AOI)		Soil Map Unit Polygons	Soil Map Unit Lines	Soil Map Unit Points		Special Point Features		Borrow Dit		Clay Spot	Closed Depression	Gravel Pit	Gravelly Spot	Landfill	Lava Flow	Marsh or swamp	Mine or Quarry	Miscellaneous Water	Perennial Water	Rock Outcrop
Area of Int		Soils		1		3	Special	403) į	द्	×	\(\)	×	68	4	The state of	4	*	0	0	8

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.

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

Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

distance and area. A projection that preserves area, such as the Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Albers equal-area conic projection, should be used if more Coordinate System: Web Mercator (EPSG:3857)

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

accurate calculations of distance or area are required.

Soil Survey Area: State of Connecticut

Survey Area Data: Version 22, Sep 12, 2022

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,

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.

Severely Eroded Spot

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Saline Spot Sandy Spot Slide or Slip

Pa 0

Sinkhole

Sodic Spot

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI		
34B	Merrimac fine sandy loam, 3 to 8 percent slopes	2.0	3.0%		
38C	Hinckley loamy sand, 3 to 15 percent slopes	11.8	18.2%		
38E	Hinckley loamy sand, 15 to 45 percent slopes	8.7	10.3%		
62D	Canton and Charlton fine sandy loams, 15 to 35 percent slopes, extremely stony	0.0	0.0%		
103	Rippowam fine sandy loam	3,5	5.3%		
306	Udorthents-Urban land complex	40.9	62.9%		
703B	Haven silt loam, 3 to 8 percent slopes	0.2	0.3%		
Totals for Area of Interest		65.0	100.0%		