

# JMM WETLAND CONSULTING SERVICES, LLC

23 Horseshoe Ridge Road  
Newtown, CT 06482  
Phone: 203-364-0345

REPORT DATE: August 1, 2022

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## ON-SITE SOIL INVESTIGATION REPORT

### PROJECT NAME & SITE LOCATION:

Project Site  
1422 Marion Avenue  
Southington, Connecticut

JMM Job No.: 22-3096-SOU-4

Field Investigation Date(s): 5/10/2022

### Field Investigation Method(s):

- Spade and Auger  
 Backhoe Test Pits  
 Other: \_\_\_\_\_

### REPORT PREPARED FOR:

Mr. Severino Bovino  
Kratzert, Jones & Associates, Inc.  
1755 Meriden-Waterbury Road  
Southington, CT 06467

### Field Conditions:

Weather: Sunny, 60's  
Soil Moisture: Moist  
Snow Depth: N/A  
Frost Depth: N/A

### Purpose of Investigation:

- Wetland Delineation/Flagging in Field  
 Wetland Mapping on Sketch Plan or Topographic Plan  
 High Intensity Soil Mapping by Soil Scientist  
 Medium Intensity Soil Mapping from USDA-NRCS Web Soil Survey Maps  
 Other: \_\_\_\_\_

Base Map Source: USDA-NRCS Web Soil Survey (attached)

Wetland Boundary Marker Series: JMM-1 to JMM-18 (open line)

**General Site Description/Comments:** The site is located east of Marion Avenue and north of Upson Place, in Southington, CT. This +/- 2.2-acre site is currently comprised of a single-family residence, maintained lawn, landscaped areas, above-ground swimming pool, scattered trees and shrubs, detached garage, forested upland areas, and forested and wet meadow wetland areas, which includes a perennial watercourse (see Figure 1, attached). The soils were found to be mainly disturbed throughout the site; however, undisturbed soils were noted. The undisturbed soils are derived from glacial outwash (i.e., stratified sand and gravel) deposits and alluvial (i.e., stratified sand and silt) deposits. The undisturbed upland soils were comprised of the moderately well drained Ellington (20) soil series. The disturbed upland soils were mapped as the Udorthents-Urban Land (306) mapping complex while any disturbed wetland soils were mapped as the Aquents (308w) mapping unit. The undisturbed wetland soils were identified as the poorly drained Raypol (12) and Rippowam (103) soil series. The regulated areas associated with the site consist of a perennial watercourse, and its associated wooded swamp and areas of wet meadow located along the northern portion of the overall site (JMM-#-series). The dominant vegetation observed within the regulated areas included such species as red maple, ash, pin oak, spicebush, silky dogwood, willows, northern arrowwood, skunk cabbage, goldenrods, sedges, grasses, horsetail, jewelweed, Asiatic bittersweet, and poison ivy, to name a few.

**ON-SITE SOIL INVESTIGATION REPORT (CONTINUED)**

**PROJECT NAME & SITE LOCATION:** Project Site  
1422 Marion Avenue, Southington, CT

**SOIL MAP UNITS****Wetland Soils**

**Raypol silt loam (12).** This series consists of deep, poorly drained soils formed in a coarse-loamy mantle underlain by sandy water deposited glacial outwash materials. They are nearly level and gently sloping soils on outwash plains and high stream terraces. The soils formed in loamy over stratified sandy and gravelly glacial outwash derived mainly from acid rocks. Typically these soils have very dark brown, silt loam Ap horizons, grayish brown and dark yellowish brown, mottled, silt loam and very fine sandy loam B2 horizons over light olive brown, mottled gravelly sand IIC horizons at a depth of 29 inches.

**Rippowam fine sandy loam (103).** The Rippowam series consists of deep, poorly drained soils formed in loamy, alluvial sediments. They are nearly level soils on floodplains. The soils formed in recent alluvium derived mainly from schist, gneiss or granite. Typically, these soils have a very dark grayish brown fine sandy loam surface layer 5 inches thick. The subsoil from 5 to 27 inches is dark grayish brown, mottled fine sandy loam and sandy loam. From 27 to 60 inches the substratum is dark gray and grayish brown, loose stratified, loamy sand and very gravelly sand. This soil was formerly mapped in Connecticut as **Rumney**.

**Aquents (308w).** This soil map unit consists of poorly drained and very poorly drained disturbed land areas. They are most often found on landscapes, which have been subject to prior filling and/or excavation activities. In general, this soil map unit occurs where two or more feet of the original soil surface has been filled over, graded or excavated. The *Aquents* are characterized by a seasonal to prolonged high ground water table and either support or are capable of supporting wetland vegetation. *Aquents* are recently formed soils, which have an aquic moisture regime. An aquic moisture regime is associated with a reducing soil environment that is virtually free of dissolved oxygen because the soil is saturated by groundwater or by water of the capillary fringe. The key feature is the presence of a ground water table at or very near to the soil surface for a period of fourteen days or longer during the growing season.

**Upland Soils**

**Ellington silt loam (20).** This series consists of deep, moderately well drained soils formed in a coarse-silty mantle underlain by sandy water deposited glacial outwash materials. They are level to gently sloping soils in shallow drainageways and low lying positions on outwash plains and terraces. The soils formed in loamy over stratified sandy and gravelly glacial outwash derived mainly from Triassic sandstone, shale, conglomerate and basalt. Typically these soils have a very dark reddish, brown silt loam surface layer 8 inches thick. The upper part of the subsoil from 8 to 18 inches is reddish brown silt loam. The lower part of the subsoil from 18 to 26 inches is mottled, reddish brown very fine sandy loam. The substratum from 26 to 60 inches is dark reddish brown very gravelly sand.

**Udorthents-Urban Land (306).** This soil mapping unit consists of well drained to moderately well drained soils that have been altered by cutting, filling, or grading. The areas either have had two feet or more of the upper part of the original soil removed or have more than two feet of fill material on top of the original soil. *Udorthents-Urban Land* or Made Land soils can be found on any soil parent material but are typically fluvial on glacial till plains and outwash plains and stream terraces.

**ON-SITE SOIL INVESTIGATION REPORT (CONTINUED)**

PROJECT NAME & SITE LOCATION: Project Site  
1422 Marion Avenue, Southington, CT

**SOIL MAP UNITS**

See previous page

Any accompanying soil logs and soil maps, and the on-site soil investigation narrative are in accordance with the taxonomic classification of the National Cooperative Soil Survey of the USDA Natural Resource Conservation Service, and with the Connecticut Soil Legend (DEP Bulletin No.5, 1983). Jurisdictional wetland boundaries were delineated pursuant to the Connecticut General Statutes (CGS Sections 22a-36 to 22a-45), as amended. The site investigation was conducted and/or reviewed by the undersigned Registered Soil Scientist(s) [registered with the Society of Soil Scientists of Southern New England (SSSSNE) in accordance with the standards of the Federal Office of Personnel Management].

All wetland boundary lines established by the undersigned Soil Scientist are subject to change until officially adopted by, local, state, and federal regulatory agencies.

Respectfully submitted,

**JMM WETLAND CONSULTING SERVICES, LLC**



James M. McManus, MS, CPSS  
Certified Professional Soil Scientist  
Field Investigator/Reviewer



**FIG 1: 1422 Marion Avenue**

4/23/2022 8:10:30 AM

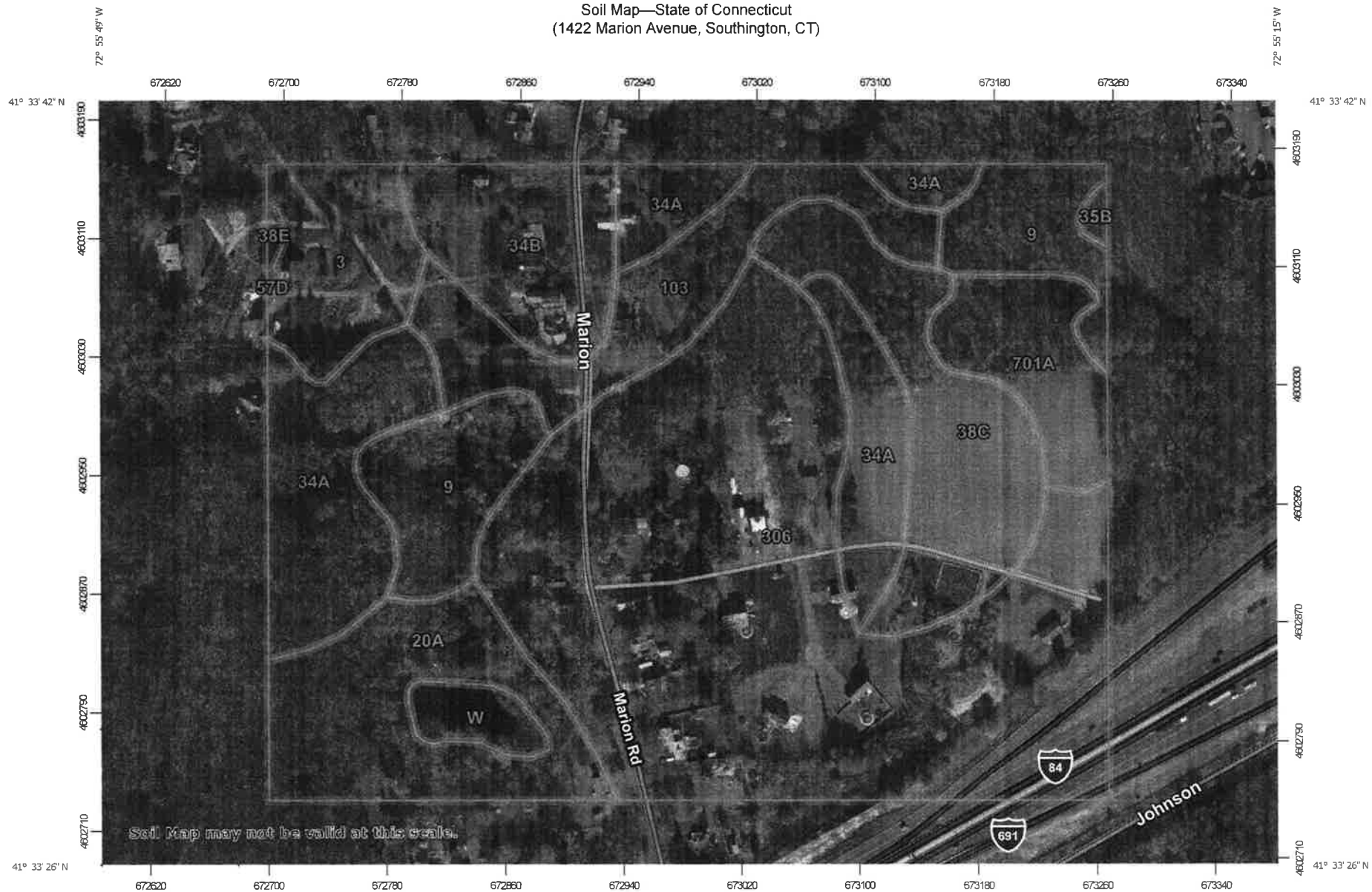
Scale: 1"=94'

Scale is approximate

The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.



Soil Map—State of Connecticut  
(1422 Marion Avenue, Southington, CT)



Map Scale: 1:3,640 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84




Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

5/8/2022  
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## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)


### Soils


 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water


 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

### Water Features

 Streams and Canals

### Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

### Background

 Aerial Photography

## 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  
Survey Area Data: Version 21, Sep 7, 2021

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

Date(s) aerial images were photographed: Sep 25, 2019—Nov 9, 2019

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
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	3.0	4.9%
9	Scitico, Shaker, and Maybid soils	4.7	7.7%
20A	Ellington silt loam, 0 to 5 percent slopes	5.3	8.8%
34A	Merrimac fine sandy loam, 0 to 3 percent slopes	7.8	12.9%
34B	Merrimac fine sandy loam, 3 to 8 percent slopes	3.6	5.9%
35B	Penwood loamy sand, 3 to 8 percent slopes	0.1	0.2%
38C	Hinckley loamy sand, 3 to 15 percent slopes	5.2	8.6%
38E	Hinckley loamy sand, 15 to 45 percent slopes	0.1	0.2%
57D	Gloucester gravelly sandy loam, 15 to 25 percent slopes	0.0	0.1%
103	Rippowam fine sandy loam	4.5	7.4%
306	Udorthents-Urban land complex	22.7	37.5%
701A	Ninigret fine sandy loam, 0 to 3 percent slopes	2.7	4.4%
W	Water	0.8	1.4%
<b>Totals for Area of Interest</b>		<b>60.5</b>	<b>100.0%</b>