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FEB 26 2020
TOWN OF WESTPORT
CONSERVATION DEPARTMENT

WETLAND BOUNDARIES • POND & LAKE MANAGEMENT • CONSTRUCTION FEASIBILITY CONSULTATIONS • ENVIRONMENTAL STUDIES

Date: February 25, 2020

By: Steven Danzer Ph.D.

- Soil Scientist, Professional Wetland Scientist, Arborist
 - Nationally certified by the Soil Science Society of America (#353463).
 - Registered with the Society of Soil Scientists of Southern New England.
 - Certified PWS #1321 by the Society of Wetland Scientists
 - Certified Arborist by the International Society of Arboriculture (ISA) NE-7409A
 - CT Licensed Arborist DEEP S-5639
- Ph.D. in Renewable Natural Resource Studies.

Re: 8 Lone Pine Lane, Westport, CT.

I have reviewed the wetland line depicted on the "Zoning Location Survey Prepared for Yehuda Elias # 8 Lone Pine Lane, Westport" by Advanced Surveying dated 10/6/19, and it substantially conforms to what was flagged out in the field.

Signed,

Steven Danzer Ph.D., Certified Professional Soil Scientist (CPSS #353463)



Certified Professional
Soil Scientist



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Soil Report

RECEIVED

FEB 20 2020

TOWN OF WESTPORT
CONSERVATION DEPARTMENT

Date: September 16, 2019

By: Steven Danzer Ph.D.

- Soil Scientist – Certified Nationally by the Soil Science Society of America (#353463).
– Registered with the Society of Soil Scientists of Southern New England.
- Professional Wetland Scientist - PWS #1321, Society of Wetland Scientists.
- Arborist - CT DEEP License S-5639.

- Ph.D. - Renewable Natural Resource Studies.

8 Lone Pine, Westport, CT

INTRODUCTION

A wetlands investigation was performed on the above-referenced property to locate and identify any inland wetland soils or watercourses.

The purpose of this report is to document that the field work for the site investigation was conducted using professionally accepted methods and procedures. This report is intended for submission by the owner(s) of the property or their designated agent to the local municipal regulatory agency.

DEFINITIONS

The Connecticut General Statutes Ch. 440 Sections 22a-36 and 22a-45 (as amended) define **inland wetlands** as land, including submerged land (except for tidal wetlands) which consist of

any of the soil types designated by the National Cooperative Soil Survey as *poorly drained*, *very poorly drained*, *floodplain*, or *alluvial*.

Poorly drained and **very poorly drained** are soil drainage classes that are defined by specific technical criteria in the Soil Survey Manual, Ch. 3 of the USDA Natural Resources Conservation Service. Generally speaking, *poorly drained soils* are wet at shallow depths periodically during the growing season, or remain wet for long periods, while in *very poorly drained soils* water is removed from the soil so slowly that free water remains at or very near the ground surface during much of the growing season.

Floodplain refers to the land bordering a stream or river that is subject to flood stage inundation, and **alluvial** refers to soil deposited by concentrated running water (Soil Survey Manual, Part 629).

Watercourses are defined by the Connecticut General Statutes Ch. 440 Sections 22a-36 and 22a-45 (as amended) to include rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private. **Intermittent watercourses** are a type of watercourse that typically do not flow year-round, and are specifically defined within the CT statutes by the presence of a defined permanent channel and bank, and the occurrence of two or more of the following characteristics:

- a) Evidence of scour, or deposits of recent alluvium or detritus;
- b) The presence of standing or flowing water for a duration longer than a particular storm incident;
- c) The presence of hydrophytic vegetation.

Uplands are land areas that are not inland wetlands, watercourses, or subject to tides.

The **soil series** is a soil label that refers to the lowest category of the National Soil Classification System. It is used as a specification for identifying and classifying soils within a soil map unit. The descriptions are standardized by the USDA-NRCS, and contain soil properties that define and distinguish them from the other soil series.

METHODS

Wetland or watercourse boundaries present within the survey area were investigated pursuant to the definitions provided by the Connecticut General Statutes (CGS Ch. 440 Sections 22a-36 and 22a-45) as amended.

All soils were sampled to a depth of at least 22 inches with spade and augur unless noted otherwise during a field investigation conducted on September 16, 2019. Soils were classified according to the nomenclature presented within the NRCS Web Soil Survey, with additional reference to the National Cooperative Soil Survey, and the local County Soil Survey.

The wetland boundaries were marked on site with pink flagging tape and/or stakes (Wetland Flags 1-20), and a sketch map prepared (see attached).

SITE DESCRIPTION AND DISCUSSION

The 0.60 acre site is located on the south side of Lone Pine Lane, Westport, CT. Land-use is residential. The site is located within CT DEEP local watershed basin 7200-29-1 within the Saugatuck Creek subregional basin.

Wetland resources on site consist of a watercourse flowing west which bisects the property, along with a remnant depressional area along its north bank. A portion of the area north of the watercourse contained fill soils, as evidenced by the soils and the trunk flares of the remaining trees. It appears the fill occurred some years ago. Major vegetation in the wetland area included red maple and lawn species.

DATA and RESULTS

FIELD CONDITIONS: Soil moist. Temperature: 70 degrees F.

WETLAND and WATERCOURSE SOIL MAPPING UNITS

(12) Raypol silt loam

The Raypol series consists of very deep, poorly drained soils formed in loamy over sandy and gravelly outwash. They are nearly level to gently sloping soils in shallow drainageways and low-lying positions on terraces and plains. Slope ranges from 0 to 5 percent. The soils have a water table at or near the surface much of the year. Permeability of the Raypol soils is moderate in the surface layer and subsoil and rapid or very rapid in the substratum. Mean annual temperature is about 50 degrees F., and mean annual precipitation is about 47 inches.

TAXONOMIC CLASS: Coarse-loamy over sandy or sandy-skeletal, mixed, active, acid, mesic Aeric Endoaquepts

UPLAND (NON WETLAND) SOIL MAPPING UNITS

Udorthents

-north of watercourse

Udorthents are cut and fill soils.

(29B) Agawam fine sandy loam, 3 to 8 percent slopes

-south of watercourse

The Agawam series consists of very deep, well drained soils formed in sandy, water deposited materials. They are level to steep soils on outwash plains and high stream terraces. Slope ranges from 0 to 15 percent. Saturated hydraulic conductivity is moderately high or high in the upper solum and high or very high in the lower solum and substratum. Mean annual temperature is about 48 degrees F. and mean annual precipitation is about 47 inches.

TAXONOMIC CLASS: Coarse-loamy over sandy or sandy-skeletal, mixed, active, mesic Typic Dystrudepts

LIMITATIONS

All observations and conclusions within this report are opinion and were based upon the field conditions at time of investigation and best professional judgment. A portion of the site was filled in the past. Field conditions may change over time. All wetland boundary lines established by the undersigned Soil Scientist are subject to change until officially adopted by the appropriate local, state and federal regulatory agencies.

CERTIFICATION

Signed,



Steven Danzer Ph.D., Certified Professional Soil Scientist (CPSS #353463)



Certified Professional
Soil Scientist



8 Lone Pine Lane

Westport, CT

1 inch = 40 Feet

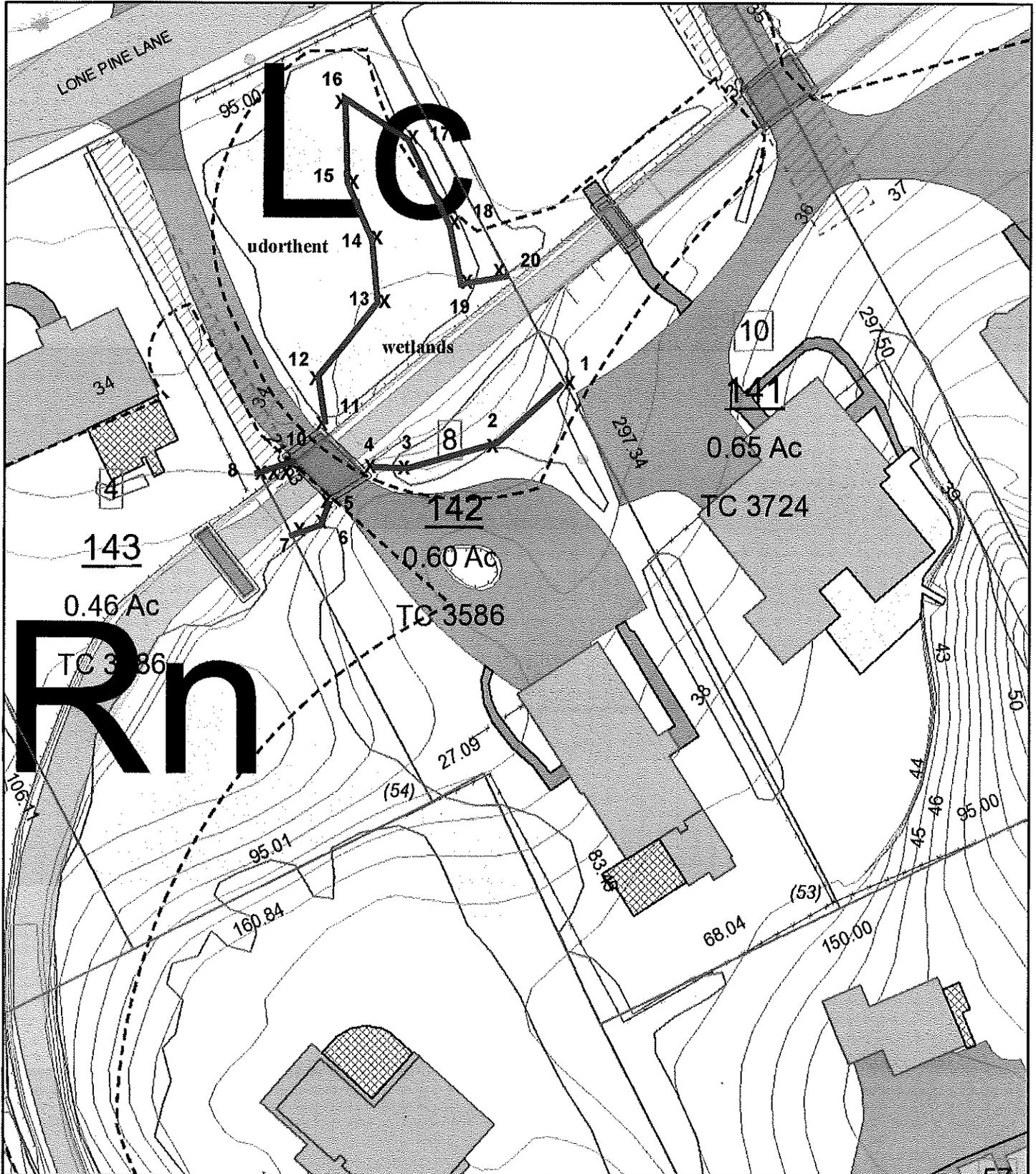
SKETCH MAP

not to scale

Steven Danzer PhD, Soil Scientist

Westport GIS map as basemap

September 16, 2019



Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.