

Soil Resource Consultants

P.O. Box 752

Meriden, CT 06450

January 24, 2022

SRC Job No. 17-75

David Carson
OCC Group, Inc.
2091 Highland Avenue
Cheshire, CT 06410

Dear Mr. Carson:

Re: Wetland Delineation - 390 Main Street - East Berlin, CT

At your request, I have completed an onsite investigation of this site. The purpose of my investigation was to identify and delineate the onsite inland wetlands and watercourse boundaries. The field work was completed on May 16, 2017.

The wetland and watercourse boundaries were marked with blue plastic flagging numbered **WF-1** to **WF-17**. Please refer to the enclosed sketch for the approximate location of the inland wetland and watercourse boundaries and selected wetland flag numbers. The sketch is not drawn to scale but is a field drawn representation of wetland and watercourse configurations. Flag numbers at property lines and other readily identifiable landmarks can be used to locate wetland lines in the field.

The wetland soil map prepared for this site is a refinement of data found in the **Soil Survey of Hartford County**. Each map unit is composed of a unique combination of soils. Areas with the same symbol have a similar soil composition. The Natural Resource Conservation Service in Connecticut presently uses a "Unified Soil Legend" which utilizes a unique number for each soil map unit. This numbering system has replaced the older use of letter designations. To facilitate this transition, I have included the new number system in parentheses for each map unit.

The map units described below are based on data collected at this particular site. Soil surveys in Connecticut were originally conducted for primarily agricultural purposes and do not provide site specific information. The minimum area delineated on a soil survey map sheet is approximately 2-3 acres in size. For this reason there may be some differences between the following information and that published in the Soil Survey.

INLAND WETLAND SOILS

The identification of inland wetland areas on this site is based on my field observations of test borings and the guidelines of the **National Cooperative Soil Survey Program**. Test borings were done using a shovel and or hand auger.

In Connecticut inland wetland soil categories include poorly drained soils, very poorly drained soils, alluvial and flood plain soils.

Rb (12)

The **Rb** map unit is composed primarily of Raypol soils on 0 to 5 percent slopes. Raypol soils are very deep, poorly drained soils which formed in glacial outwash materials. Typically Raypol soils have loam, silt loam, or very fine sandy loam textures overlying stratified sand and gravel.

W\C

The **W\C** designation refers to the existence of a watercourse on the subject property. The watercourse is a well defined channel or ditch area that conveys excess surface water runoff from its drainage area as well as groundwater seepage areas and or inland wetland soil areas.

NON-WETLAND SOILS

The non-wetland soils were not studied or mapped in detail. Some observations were made of these soils during the process of identifying the inland wetland areas. Random soil boring locations were marked with pink and black stripped plastic ribbons. The following map unit descriptions do not constitute a detailed soil investigation of these upland areas, but may be used as a guide in site planning.

Ud (306)

The **Ud** map unit consists of moderately well to well drained disturbed soils. It is composed of filled areas and areas consisting of both cut and fill. Soils in this map unit have been extensively disturbed by grading and filling activities associated with the existing developed\altered portions of this site.

Classification into natural soil units is impossible. This map unit is referred to taxonomically as Udorthents. Original diagnostic soil horizons are not present. Soils in this map unit have a wide range of characteristics. Textures are predominantly gravelly fine sandy loams. Permeability can be variable due to the lack of soil profile structure caused by the grading activities.

Wk (87)

The **Wk** map unit consists primarily of Wethersfield soils on 3 to 15 percent slopes. Wethersfield soils are very deep and well drained. They formed in dense basal till. Typically they have fine sandy loam textures to a depth of 60 inches or more.

Wethersfield soils have a densely compacted layer commonly called hardpan with an upper boundary generally between 30 to 38 inches below the soil surface. The hardpan layer is very slowly permeable. Water that enters this soil moves downward to the hardpan layer and then tends to flow laterally over the hardpan surface.

If you have any questions regarding this report, or need additional assistance with this site, please contact me

Sincerely,



David H. Lord
Certified Soil Scientist

Soil Resource Consultants
P.O. Box 752 - Meriden, CT 06450
Wetland Boundaries Not to Scale
045-1627 WFS-17

