



Joseph R. Theroux

~ Certified Forester/ Soil Scientist ~

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Forestry Services ~ Environmental Impact Assessments
Wetland Delineations and Permitting ~ E&S/Site Monitoring
Wetland function/value assessments

5/22/18

Archer Surveying
P.O. Box 22
Brooklyn, CT. 06234

Re: Wetland delineation, Weaver Property, Day Street, Brooklyn, CT.

Dear Mr. Archer,

At your request I have delineated the wetlands/watercourses on the subject 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 boundaries of these wetlands/watercourses and the adjacent upland soils.

Wetland flags WF- 1 through WF- 7 delineate the boundary of a small inundated wetland area formed in an old excavated depression to the east of the cornfield and the eastern property line. This area was inspected for the presence of obligate vernal pool species and none were found.

Wetland flags WF-1A through WF-31A and WF-1B through WF-58B delineate the northeastern boundary of a large palustrine forested wetland complex that occupies the central and south east portions of the property. Numerous intermittent watercourses are located throughout this wetland, and were flowing on the dates of the delineation, (March 12th, May 16, 17, and 21, 2018). The western and southern boundaries of this wetland are delineated by flags WF-1C through WF-89C, WF-1E through WF-35E, WF-1F through WF-30F and WF-1G through WF-60G.

Wetland flags WF-1H through WF-22H and WF-1 through WF-25I delineate 2 separate upland "islands" that were found within this large wetland complex in the south central portion of the property to the west of the power line right of way.

These wetland soils have formed from the seasonally high, perched water tables throughout the level to gently sloping portions of the parcel. In numerous areas, ground water and surface water flows have formed these wetland soils and intermittent watercourses.

These wetland soils are characterized by shallow redoximorphic features such as prominent oxidized rhizospheres and redox concentrations within 6 inches of the soil surface. Other features included redox depletions, low chroma colors within 20 inches of the soil surface and thick organic "A" horizons.

Wetland flags WF-1D through WF-21D delineate a separate intermittent watercourse that is located in the northwest portion of the parcel in a depressed area on the hillside. This watercourse flows as a result of ground water breakout and surface water flows when the seasonal water tables are high. This watercourse was also found flowing on May 15 and 17th 2018. No wetland soils were found within the depressed area where the watercourse forms.

In conclusion, if you have any questions concerning the delineation or this report, please feel free to contact me.

Thank you,

A handwritten signature in black ink, appearing to read 'J. R. Theroux', with a stylized, cursive script.

Joseph R. Theroux
Certified Soil Scientist
Member SSSSNE, NSCSS, SSSA.