



# Caron Environmental Consulting

978-874-5469

Wetlands • Forestry • Permitting • Habitat Studies

November 26, 2019

Ms. Amy Green  
Littleton Conservation Commission  
P.O. Box 1305  
Littleton, MA 01460

Re: Review of Wetland Delineation  
363 King Street

Dear Ms. Green:

As requested we have reviewed the wetland delineation on the above-referenced site that was conducted by Oxbow Associates. A site visit was conducted on November 26, 2019 to examine the delineation. Kyle Cormier from Oxbow Associates, along with yourself were present.

The site is predominantly an old field that has reverted a mix of herbaceous and grassy vegetation, with areas of shrubs and small trees along portions of the intermittent stream and the drainage ditches. In most areas we found the soils to have extremely deep A-horizons, likely a result of past agricultural use.

We closely examined the soils and vegetation in several areas that the Commission had concerns about. The original delineation and our review were primarily based upon observations of the soil conditions as there is a mix of upland and wetland species on the site, and portions of the site have been mowed.

In three areas it appeared that revisions to the delineation were warranted:

- Flag A19 was moved upgradient about 17" and a new flag labeled A19A was added between flags A19 and A20. We found the soil in the area to have a very dark and deep A-horizon, with low chroma mottling beginning at depths between 10" and 16". These soils were also saturated to the surface. Just above the new wetland line the soils shifted to having non-hydric characteristics. The soils in the upland have a B-horizon underlying the A-horizon, which has a color of 2.5 Y 5/3.
- Flag D45 was moved outward approximately 21' to include a ponded area with hydric soils. The soils in this location have distinctive high and low chroma mottling beginning at depths of 6" to 8". There was also surface water present at the time of the review.
- The wetland line was revised connecting Flag G4 to Flag G15 and Flag G2 to Flag G17. Flags G3 and G16 should be omitted. This change was made to encompass as wetland an area that has numerous oxidized rhizospheres right to the surface. In addition large, distinctive low chroma mottles were observed in the soil profile within 12" of the surface.

In two other areas the Commission was concerned about we believe that the delineation is accurate. In those areas, along with much of the site, there are indications from the soils' characteristics that

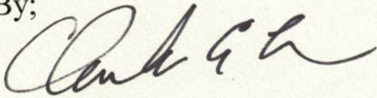
conditions are quite wet, but not quite wet enough to meet the definition of a wetland. These indicators included the presence of only a few high chroma mottles without any low chroma mottles and low chroma mottling present only well into the soil profiles.

With the above-recommended revisions it appears that the delineation accurately defines the extent of wetland resource areas on the site.

If you have any questions please do not hesitate to contact us.

Very truly yours,  
CARON ENVIRONMENTAL CONSULTING

By:

A handwritten signature in black ink, appearing to read "Charles E. Caron", written in a cursive style.

Charles E. Caron