



April 17, 2019

Mr. Joe Pfau, P.E.
Pietrzak & Pfau Engineering, PLLC
262 Greenwich Ave., Suite A
Goshen, New York 10924

*Re: Lands of Sorrentino Wetland Evaluation
(T) Monroe 37-1-1, (T) Chester 15-1-24 & 15-1-27.4
Towns of Monroe & Chester, Orange County, New York*

Dear Mr. Pfau:

On March 28, 2019 North Country Ecological Services, Inc. (NCES) completed a delineation of the wetlands and other Waters of the United States (WOTUS) that are regulated by the U.S. Army Corps of Engineers (USACE) pursuant to Section 404 of the Clean Water Act. NCES used the three parameter methodology (soils, hydrology, vegetation) that is outlined in the 1987, *Corps of Engineers Wetland Delineation Manual*.

The delineation resulted in the identification of three separate wetland areas within the Town of Monroe portion of the site (Section 37, Block 1, Lot 1). Only a perennial stream, which is also a WOTUS, was found on the portion of the site that is found in the Town of Chester (section 15, Block 1, Lot 24) off of Camp Monroe and Pickerel Roads. No vegetated wetlands was found on this parcel.

The three wetland areas on the Town of Monroe portion of the site consisted of Wetland Area 1; a Palustrine emergent wetland that contained a dominance of common reed (*Phragmites australis*), grey dogwood (*Cornus racemosa*), silky dogwood (*Cornus amomum*), and purple loosestrife (*Lythrum salicaria*). The hydrology of this wetland is considered seasonally inundated appears to be from surface water runoff and precipitation. During wet periods and in the spring, the area contains up to 0.5' of water and then is dry during other times. Wetland Areas 2 and 3 are Palustrine forested wetlands that are also seasonally inundated and saturated. Wetland Area 2 appears to originate from the collection surface water runoff and some groundwater. Several culverts that are found under Lakes Road dispense water onto the property and into Wetland Area 3. The dominant vegetation within each wetland included red maple (*Acer rubrum*), green ash (*Fraxinus pennsylvanica*), swamp white oak (*Quercus bicolor*), American elm (*Ulmus americana*), pin oak (*Quercus palustris*), highbush blueberry (*Vaccinium corymbosum*), silky dogwood, grey dogwood, common elderberry (*Sambucus canadensis*), nannyberry (*Viburnum lentago*), tatarian honeysuckle (*Lonicera tatarica*), skunk cabbage (*Symplocarpus foetidus*), tussock sedge (*Carex stricta*), sedges (*Carex spp.*), and jewelweed (*Impatiens capensis*).

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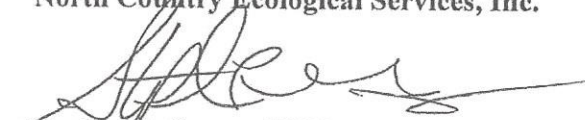
The WOTUS on the Town of Chester parcel consisted of a rocky headwater stream only. The majority of the lot was sloped (3-8%±) with well drained and rocky soils. The dominant vegetation were upland trees and shrubs such as sugar maple (*Acer saccharum*), shagbark hickory (*Carya ovata*), northern red oak (*Quercus rubra*), white oak (*Quercus alba*), white ash (*Fraxinus americana*), black cherry (*Prunus seritona*), red cedar (*Juniperus virginiana*), multiflora rose (*Rosa multiflora*), and tatarian honeysuckle. The upland species on this lot was consistent with the upland species found on the Town of Monroe lot as well.

The location and configuration of the wetlands is shown on mapping prepared by Pietrzak & Pfau Engineering & Land Surveying, PLLC. Based on the Concept Plan of the development of the property, there are no wetland or stream impacts and a Nationwide, or other wetland permit, is required from the USACE.

If you have any questions regarding the wetland delineation, feel free to contact me at anytime.

Sincerely,

North Country Ecological Services, Inc.



Stephen P. George, PWS
President