King's Arrow Company, LLC

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NATURAL RESOURCE MAPPING

Troiano Snow Road Properties

Located in Nobleboro

December 2024

Purpose of Investigation

Natural resource mapping was performed by King's Arrow Company to assist in determining future land use potential for the subject parcels. The 35.8 and 27.8 acre adjacent subject parcels are located on Snow Road in Nobleboro, Maine. Wetland delineation, stream identification and cursory vernal pool screening were included in this mapping process.

Methods of Investigation

In November and December of 2024 natural resource mapping was performed for this project site. Wetlands were identified/delineated in accordance with the *1987 Federal Manual for Identifying and Delineating Jurisdictional Wetlands* and the *2012 Regional Supplement to The Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region.* Stream delineation was conducted in accordance with the DEP identification and delineation methods associated with the *Natural Resource Protection Act.* Vernal Pools were included in the delineation, any found will be considered potential until observations can be made during recommended observation periods. Joseph F. Stevenson, L.P.F, L.S.E marked wetland boundaries with flagging at an average interval of 35 feet and the alpha numeric flags were located with a sub-meter handheld Geode GPS unit. All the wetlands identified contain the three required elements of a wetland: hydric soils, hydrophytic vegetation and hydrologic connection.

Results of Investigation

The project site is located adjacent to Center Street and US Route 1, and is transected by the Snow Road (discontinued) in Nobleboro, Maine. The two lots containing a total of 63.6 acres is new to the Troiano family and is being considered for a multi-lot residential development subdivision. Based on proximity to major travel corridors and urban areas, this parcel is ideal for the proposed use. The parcel is comprised of several upland areas transected by forested and one scrub/shrub, open emergent wetland complexes. The land exhibits evidence of agriculture abandonment through old stone walls, drainage ditches, stone wetland crossings, and barbed wire fencing.

The terrain is gently sloping toward the wetlands, as the uplands form individual elevated areas. The property appears to be sited on a Lacustrine till deposit area comprised of fine silty loam overlaying hardpan and stony soils.

Vegetation within the project site is comprised of early successional forest species commonly found on abandoned agricultural land – White pine with Weevil damage in the crowns as well as trees with heavy branches extending to the base of the tree. The wetlands are formed into three general types and vegetation varies by each type;

- Palustrine Forested (PFO-1d) – tree species include Red maple, White pine, Balsam fir, Red oak and White ash.
- Palustrine Scrub/Shrub (PSS-1E) species include Red alder, Red maple, and Winterberry-holly.
- Palustrine Open Emergent (PEM-1C/h) species include Cat tails, Sedges, and Grasses.

The upland soils are comprised of fine sandy loam/ fine silty loam overlaying a firm restrictive layer. The wetland soils are comprised of loamy silts overlaying firm layers. The soils in the upland areas appear acceptable for subsurface wastewater disposal in most places.

Part of the wetland complex identified as the scrub/shrub- open emergent wetland appears to have been diked for past agricultural uses – likely in the late 1800's or early 1900's. while this wetland feature is likely affected by the past impoundment work, it still meets minimum criteria for Wetlands of Special Significance (WOSS) as it is comprised of more than 20,000 ft^2 of emergent wetlands.

Another small wetland exhibiting seasonal ponding characteristics initially looked like a Potential Vernal Pool (PVP). Part of the main identifying factors associated with PVP's is that they must be *naturally occurring.* This feature appears to have been modified during the construction of adjacent US Route 1 and does not appear to be naturally occurring. Based on this information, no further observations are planned for this feature.

Along the northern end of the property a NRPA stream was delineated after meeting 2 of the 6 criteria for a stream (defined channel, aquatic wildlife, continuous flow). This stream traverses the property and has several wetlands associated with it; making these immediately adjacent complexes WOSS.

Wildlife using the parcel include White-tailed deer, turkey, small predators including foxes and coyote. Bird species include crows, birds of prey, and a broad spectrum of song birds. No critical or endangered species were observed during field work. The Maine Natural Area's shows several areas of the wetland complex (WOSS area) as National Wetland Inventory (NWI) wetlands.

Conclusions

Jurisdictional wetlands were found on the subject parcels. No Potential Vernal Pools was observed. Several wetlands meet criteria for WOSS and planned impacts should be avoided during development concept work. A NRPA stream traverses the property and will need to be buffered and protected from planned development activities. No critical wildlife species were observed during field reconnaissance.

Respectfully,

King's Arrow Company, LLC

Joseph F. Stevenson, L.P.F, L.S.E

Owner

SITE PHOTOS



Photo 1: Typical upland area.



Photo 2: Typical forested wetland area.



Photo 3: Typical scrub/shrub wetland area.



Photo 4: Scrub/shrub with open emergent in the background.



Photo 5: Open emergent wetland.



Photo 6: Wetland along the edge of US Rt 1.



Photo 6: NRPA stream.



Photo 7: Widest run of NRPA stream.



Photo 8: Wetlands adjacent to NRPA stream.