VOSBURGH SWAMP SCOUTING 2019:

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***Introduction:*** *In May of 2019, the Terrestrial Invasive Species Coordinator, Spencer Barrett, worked with two interns, from Siena College, to look for early detection invasive species throughout the Capital-Mohawk PRISM. The Siena interns, Anna Kuhne and Kelsey Stevens, focused on terrestrial invasive plant surveys at highly susceptible and valuable habitats throughout the PRISM region. The following is an abridged summary of some of the findings of the survey throughout Vosburgh Swamp as well as recommendations for future invasive species related endeavors for the various affected stakeholders. The PRISM works throughout 11 counties around the Capital Region to detect, prevent, and control invasive species.*

**Project Description:** Invasive terrestrial plant survey conducted over the course of two years to track changes in species present and densities.

**Dates:** May 30th, 2019

**Participants:** Scenic Hudson, Capital/Mohawk PRISM

**Point of Contact:** Scenic Hudson, NYS DEC

**County:** Greene

**Locations and Species Identified:**

**Vosburgh Swamp (New York State Department of Environmental Conservation):** Terrestrial invasive plant species were surveyed throughout the site by foot. The records taken included plant species, GPS coordinates, surface area covered by the plant(s), and the percent cover of the identified plant(s). About 150 records were recorded at this site over the course of two days.

***Invasive Species Present at Vosburgh Swamp (5/30/19):***

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| --- | --- | --- | --- | --- |
| Common Name | Scientific Name | Locations (GPS) | Growth Type | Phenology |
| Japanese Barberry | *Berberis thunbergii* | Lat: 42.30989  Long: -73.78702 | Shrub | Budding |
| Oriental Bittersweet | *Celastrus orbiculatus* | Lat: 42.30936  Long: -73.78742 | Vine | Budding |
| Black Locust | *Robinia pseudoacacia* | Lat: 42.3119  Long: -73.78624 | Tree | Vegetative |
| Honeysuckle  (Species Unknown) | *Lonicera spp (species unknown)* | Lat: 42.30873  Long: -73.78652 | Shrub | Immature Fruit |
| Autumn Olive | *Elaeagnus umbellata* | Lat: 42.30815  Long: -73.7851 | Shrub | Flowering |
| Multiflora Rose | *Rosa multiflora* | Lat: 42.31152  Long: -73.78632 | Shrub | Vegetative |
| European Barberry | *Berberis vulgaris* | Lat: 42.31086  Long: -73.78665 | Shrub | Vegetative |
| European Alder | *Alnus glutinosa* | Lat: 42.30987  Long: -73.78708 | Tree | Vegetative |
| Black Swallow-wort | *Vincetoxicum louiseae* | Lat: 42.30881  Long: -73.78642 | Herbaceous | Budding/Flowering |
| Ground Ivy | *Glechoma hederacea* | Lat: 42.30778  Long: -73.78641 | Vine | Flowering |
| Dame’s Rocket | *Hesperis matronalis* | Lat: 42.30932  Long: -73.78738 | Herbaceous | Flowering |
| Yellow Iris | *Iris pseudacorus* | Lat: 42.30979  Long: -73.78703 | Herbaceous | Flowering |
| Privet (Species Unknown) | *Ligustrum spp. (species unknown)* | Lat: 42.30932  Long: -73.78741 | Shrub | Vegetative |
| Moneywort | *Lysimachia nummularia* | Lat: 42.30934  Long: -73.78755 | Herbaceous | Vegetative |
| Purple Loosestrife | *Lythrum salicaria* | Lat: 42.30931  Long: -73.7876 | Herbaceous | Vegetative |
| Japanese Stiltgrass | *Microstegium vimineum* | Lat: 42.3069  Long: -73.78603 | Herbaceous | Vegetative |
| White Mulberry | *Morus alba* | Lat: 42.30809  Long: -73.78523 | Shrub | Vegetative |
| Norway Maple | *Acer platanoides* | Lat: 42.31029  Long: -73.78688 | Tree | Vegetative |
| Emerald Ash Borer | *Agrilus planipennis* | Lat: 42.30677  Long: -73.78687 | Insect | Unknown |
| Garlic Mustard | *Alliaria petiolata* | Lat: 42.30929  Long: -73.78758 | Herbaceous | Budding/Flowering |
| Mugwort | *Artemisia vulgaris var. vulgaris* | Lat: 42.31319  Long: -73.78606 | Herbaceous | Vegetative |
| Narrowleaf Bittercress | *Cardamine impatiens* | Lat: 42.30972  Long: -73.78703 | Herbaceous | Flowering |
| Canada Thistle | *Cirsium arvense* | Lat: 42.30808  Long: -73.78523 | Herbaceous | Vegetative |
| Pale Swallow-wort | *Vincetoxicum rossicum* | Lat: 42.30834  Long: -73.78645 | Herbaceous | Flowering |
| Swallowwort (species unknown) | *Vincetoxicum spp. (species unknown)* | Lat: 42.31227  Long: -73.78609 | Herbaceous | Flowering |
| Phragmites (Common Reed) | *Phragmites australis ssp. australis* | Lat: 42.31022  Long: -73.78695 | Herbaceous | Vegetative |
| Japanese Knotweed | *Polygonum cuspidatum* | Lat: 42.31225  Long: -73.78612 | Herbaceous | Vegetative |
| Common Buckthorn | *Rhamnus cathartica* | Lat: 42.30996  Long: -73.78698 | Shrub | Vegetative |
| Wineberry | *Rubus pheonicolasius* | Lat: 42.30789  Long: -73.78639 | Herbaceous | Flowering |
| Siberian Elm | *Ulmus pumila* | Lat: 42.31322  Long: -73.78614 | Tree | Flowering |
| Common Periwinkle | *Vinca minor* | Lat: 42.30942  Long: -73.78726 | Herbaceous | Flowering |

**Dominant Native Plants:** Sugar Maple, Willow spp., Cattails, Oak spp.

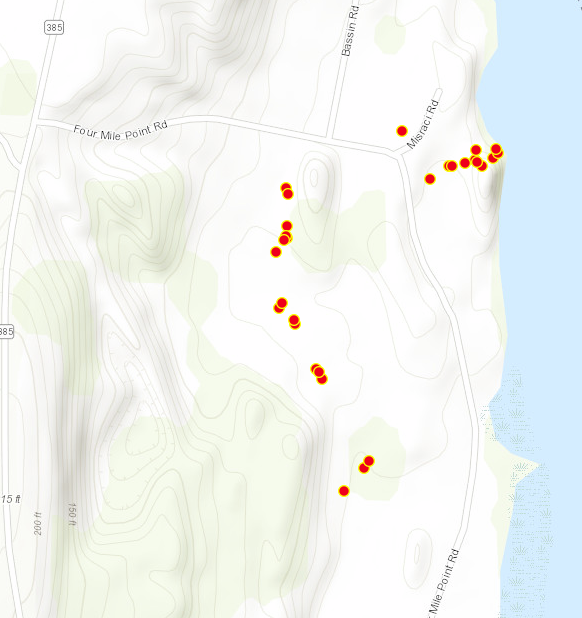
**Native Community Types:** Swamp

**Treatment Method:** Not Applicable.

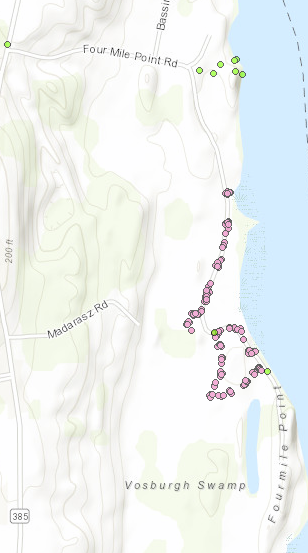
**Summary of Work Completed:**

1. Terrestrial invasive plant identification and survey from southern entrance to boardwalk and bird blind both on marked paths and on roadsides.

**Recommendations for the Future:** Management and eradication of terrestrial invasive species such as yellow iris, black swallow-wart, and pale swallow-wart, with long-term monitoring of at least five years after removal.



**Figure 1: Invasive species identified in 2018 at the northernmost portion of Vossburgh Swamp. Similar species were found in the southern portion and along Four Mile Point Road.**

 **Figure 2: Invasive species identified in 2019 at Vossburgh Swamp. Surveying mostly was focused around the southern entrance to the property as well as on Four Mile Point road where it transects land owned by the state.**

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**Fig 3. Dames Rocket at Vosburgh Swamp**