Calvert Orchid Project 2021 Report

Project Leader: Karyn Molines Karyn.Molines@CalvertCountyMD.gov 410-535-5327

Lead Volunteers: Gordon Burton and Mary Burton

Total Volunteer Hours: 61

The Calvert County Natural Resources Division is partnering with the Smithsonian Environmental Research Center and the North American Orchid Conservation Center (NAOCC) to document orchid species found in Calvert County for the purpose of conserving native orchids found in the U.S. and Canada. The Calvert Stewards volunteers will obtain photographs and identify locations of orchids so that trained collectors can collect viable seeds, fruits, leaf samples, and root samples with the aim of conserving North American orchid species. In special situations whole plants will be collected for voucher specimens to be stored in the Botany Department of the National Museum of Natural History in Washington, D.C.

While NAOCC activities focus on establishing collections of seeds and orchid mycorrhizal fungi, Calvert Stewards primarily identify and map orchid populations throughout Calvert County..

SKILLS NEEDED

- Ability to work independently
- Ability to identify the common orchid species
- Hike across uneven and overgrown terrain, including off established trails, to get to orchid locations

Optional, but Preferred, Skills

- Access to a smart phone with iNaturalist app installed (or a digital camera with date and location stamp)

VOLUNTEER DUTIES

- Explore publicly accessible properties to find and identify orchids
- Map locations accurately on paper maps or through online mapping via iNaturalist. (See attached data sheet)
- Photograph the orchids at the different stages (leaf, flower, and fruit).
- Identify the habitat characteristics of each population.

REQUIREMENTS & EXPECTATIONS

- Hike independently or in teams
- Maintain confidential and sensitive information about locations of orchids
- Be exposed to ticks, chiggers, mosquitoes, bees/wasps, poison ivy, bad weather, and other wild life

TRAININGS

- Orientation through a workshop, in-person, or via phone to understand the project.
- Orientation and training on mapping via paper and online.
- On-going opportunities to join scheduled orchid searches

PROJECT DATES

- **Winter**: Locate species with overwintering leaves such as *Tipularia discolor* (Cranefly Orchid), *Aplectrum hymenale* (Puttyroot) and *Goodyera pubescens* (Downy Rattlesnake Plantain).
- **Spring**: Locate spring flowering species such as *Galearis spectabilis* (Showy Orchid) or *Cypripedium acule* (Pink Lady's Slipper)
- **Summer**: Locate summer flowering species such as the *Platanthera* species
- **Fall**: Compile location maps for all species.
- **Throughout the year:** Collaborate with researchers from the Smithsonian Environmental Research Center and NAOCC on individual locations and collection protocols.

Attached:

1. A spreadsheet summary of orchid findings at the different public natural habitats in Calvert County in 2018-2021.
2. Maps of trails taken at Battle Creek (Keim Forest); Flag Ponds: Hall Creek; and Smoky Road
3. Map of Kings Landing (Huntingtown Area) NRMA (Smoky Road)

Note: No new species have been found in 2021 so one should refer to the 2020 Report for a listing of found species of orchids and a list of potential species.

2021- Calvert Orchid Project

Summary of Field Work (Mary and Gordon Burton)

Searches for orchids in 2021 were confined to five new locations: A Southern section of Smoky Road NRMA, the North section of Smoky Road, Keim Forest area of Battle Creek, the area of lowlands that parallel the trail at Hall Creek NRMA and the lowlands paralleling the boardwalk near the Bay at Flag Ponds. Unfortunately very little was found at any of the sites, and no new species were discovered. Maps of trails in each area are attached. A summary for each of the areas surveyed in 2021 follows:

ACLT (American Chestnut Land Trust): No visits were made.

Flag Ponds Nature Park: 2 visits were made, one in September and one in October

1. 1 visit (September 3) was made to the *Spiranthes* Duncan Pond site found in 2018 by Statz. 22 *Spiranthes ovalis* plants were found, 11 were in bud.
Microstegium continues to be a problem as it competes with the *Spiranthes*. Two bags of the stilt grass immediately around the orchids was removed. This area is also popular with folks searching for pawpaw and thus is easily trampled. A request was made that the area be corded off to protect the plants.

1a. At the same time we searched for the *Aplectrum hyemale* on Duncan Pond Trail which has been monitored for many years. It was not found.

2. On October 8, we searched for orchids along the boardwalk paralleling the Bay as far as the pier. Then we searched the area interior to the boardwalk. We had hoped to be able to cross the swamp, but could not do so. We found no orchids. (See Oct. 8 map.)

Hall's Creek NRMA: 2 visits were made. One in May, and one in July.

1. On May 5th we checked on the status of the *Cypripedium* that had logs stacked on them in 2020. Amazingly, the majority of the plants survived and were thriving. We attempted to check on the *Neottia bifolia* that was found in the flood plain off the west side of the trail. There were at least 50 plants in a 40'X40' area on April 12, 2020. We were unable to reach the area due to high water and unstable flood plain area which had to be crossed.

2. On July 5 we searched for orchids in the lowland area paralleling the main trail to the west. The area was dense with *Microstigeum*. No orchids were found.

Smoky Road (King's Landing NRMA): 5 visits.

1. Near Road

a. The *Corallorhiza odontorhiza* that was seen in 2018 and believed to have been destroyed by additional road work was found on September 24, 2019 in flower. However, on September 10, 2021 no sign of the *Corallorhiza* could be found.

b. The *Aplectrum hyemale* was found on September 10, even though it was not found at the same time last year.

2. South and West

May 19, we searched a trail from the west side of the Dog Training Area to the south end of the South pond (see map). The trail is mostly covered with invasive plants to the east, but opens as one nears Pond and Cocktown Creek. We found no orchids.

3. Dog Training Area

May 26, we followed a mapped trail south to the edge of the NRMA property within the Dog Training Area. We found one group of 6 *Cypripedium acaule* near the property line.

4. North East

a. On June 17, we hiked a loop trail near the east border of the NRMA property. Open forest with few invasive plants, but found only two *Goodyera pubescens* sightings, one with only one plant and one with 8 plants in proximity to each other.

b. On July 4 we hiked a loop in the southern and central section of the NW area where we found two sites. A grouping of a half dozen *Goodyera pubescens* in leaf and a second site of a single *Galearis spectablis* in leaf.

c. On September 10 we hiked a ravine leading to Chew Creek wetlands.It was in the southwest part of the NW area. Our goal was to explore the wetlands, but they were so flooded and heavy in *Microstigeum* that we were unable to complete the trip. We only found about 10 *Galearis spectablis* in leaf about half way up the ravine slope.

Battle Creek/ Keim Forest: 3 visits were made to Keim Forest.

a. On April 22 the area near Battle Creek was explored, but no orchids were found.

b. On May 2 a loop of the central area from the parking lot to the Northeastern corner was covered. No orchids were found.

c. On July 31 a hike was made upland to, but paralleling Battle Creek. Two Galearis sites were found.

Gatewood Preserve: No visit

Biscoe-Gray Farm: No visit

Ward Farm: No visit

Searches and volunteer hours: There was a total of 12 searches done in 2021 at 4 public areas in the County. Hours of volunteer work have been previously submitted.

Follow-up to 2020 Recommendations

1. As discussed in the 2020 Report, the *Spiranthes ovalis* found by Jim Statz in 2019 at Flag Ponds is only the second finding of this plant in Maryland. It is also an unusual site in Calvert County where the orchid has spread extensively despite its nearness to a well used trail and road. As mentioned, the 25 plants have been marked with 8" nails so that they can be monitored. It is also hoped that samples can be taken from these plants for submission to North American Orchid Conservation Center (Contact: Dennis Whigham). It is also important that we continue to try to control the invasive plants that are growing in the area of the *Spiranthes*.

Follow-up: 1. Samples have not been taken to NAOCC due to the covid pandemic. 2. It has been requested that the Management at Flag Ponds install a simple barricade to keep foot traffic off the area of the *Spiranthes*.

2. The logs on top of the *Cypripedium* at Hall Creek need to be removed. I have attempted to reach Cedarville State Forest regarding this issue, but have not been successful.

Follow-up: The logs have not been removed, but as mentioned earlier, the *Cypripedium* is thriving despite the loss of some of the plants.

3. There needs to be a concerted effort to explore the wetland areas which are good habitat for most terrestrial orchids which might be found on the Coastal Plain. These searches should be concentrated in the months from the end of April through the end of June and repeated in the months of July through September. Reviewing the literature on the internet (GoOrchid, Maryland Plant Atlas, and Maryland Biodiversity Project) we have 24 orchids that have been

seen on the Coastal Plain of Maryland and thus possibly could be found in Calvert County. Of those 10 have been documented with Calvert Orchids. The remaining 14 species have been included as being "possibilities" due to their occurrence at some time on the Western Coastal Plain of Maryland. (See "14 Orchids that Might be Found in Calvert County") It is therefore recommended that searches be made at least twice during the spring and summer at the following locations:

1. The wetland plains of Hall Creek NRMA south of the feeder creek could use further exploration in the summer. The floodplains on the east side have been searched several times in spring and summer. (In 2020 we found a new route across the stream. As a result the *Neottia bifolia* was found in a floodplain beyond the stream in April 2020.)

   Follow-up: Due to washouts and heavy flooding of the feeder creek, it has been impossible to access areas beyond the feeder creek. An exploration of northern area of the feeder creek proved to be non-productive.

2. Battle Creek including the upper reaches of the Creek and Biscoe Gray should be explored. (Again, accessibility is a concern.)

   Follow-up: Biscoe Gray was not explored. The Keim Forest area north of Battle Creek Sanctuary was explored in three visits.

3. The floodplains of Flag Ponds should be explored in the early spring.

   Follow-up: This was not done.

4. The streams of Smoky Road/ Huntingtown NRMA should be explored. This might be accessible in late April and early May, but may be overgrown in summer.

   Follow-up: One attempt was made to access Chew Creek but as described above the terrain on September 9 resulted in high water and heavy undergrowth. And it must be added that just finding an accessible path to the streams is challenging. This might be better attempted in early spring.

5. The North South Trail at ACLT should be explored. This might be done in cooperation with the Master Naturalists Program at ACLT.

   Follow-up: This was not attempted due to Covid. However we did reach out to Melissa McCormick who is working on plant identifications with ACLT regarding identifying any found orchids. However, we received no reply.

Recommendations for 2021

The current Calvert Orchid Conservation Program is largely dependent on two volunteers who are both advanced in age. Even though Calvert County is the smallest county in Maryland, and among the smallest in the nation, it still contains a great deal of public land that is suitable for orchid habitation. And due to the deep ravine topography of the county, much of the public lands are not easily accessible, despite the fact that it is located on the Atlantic Coastal Plain. For the program to continue to produce a viable long term collection of data it is necessary that more volunteers commit to the study. It would be best practices if one or two individuals were assigned to a public area or a section of a public area where they could commit to 6 to 8 searches in the three designated orchid growing seasons (April-May; June-July; August-October).

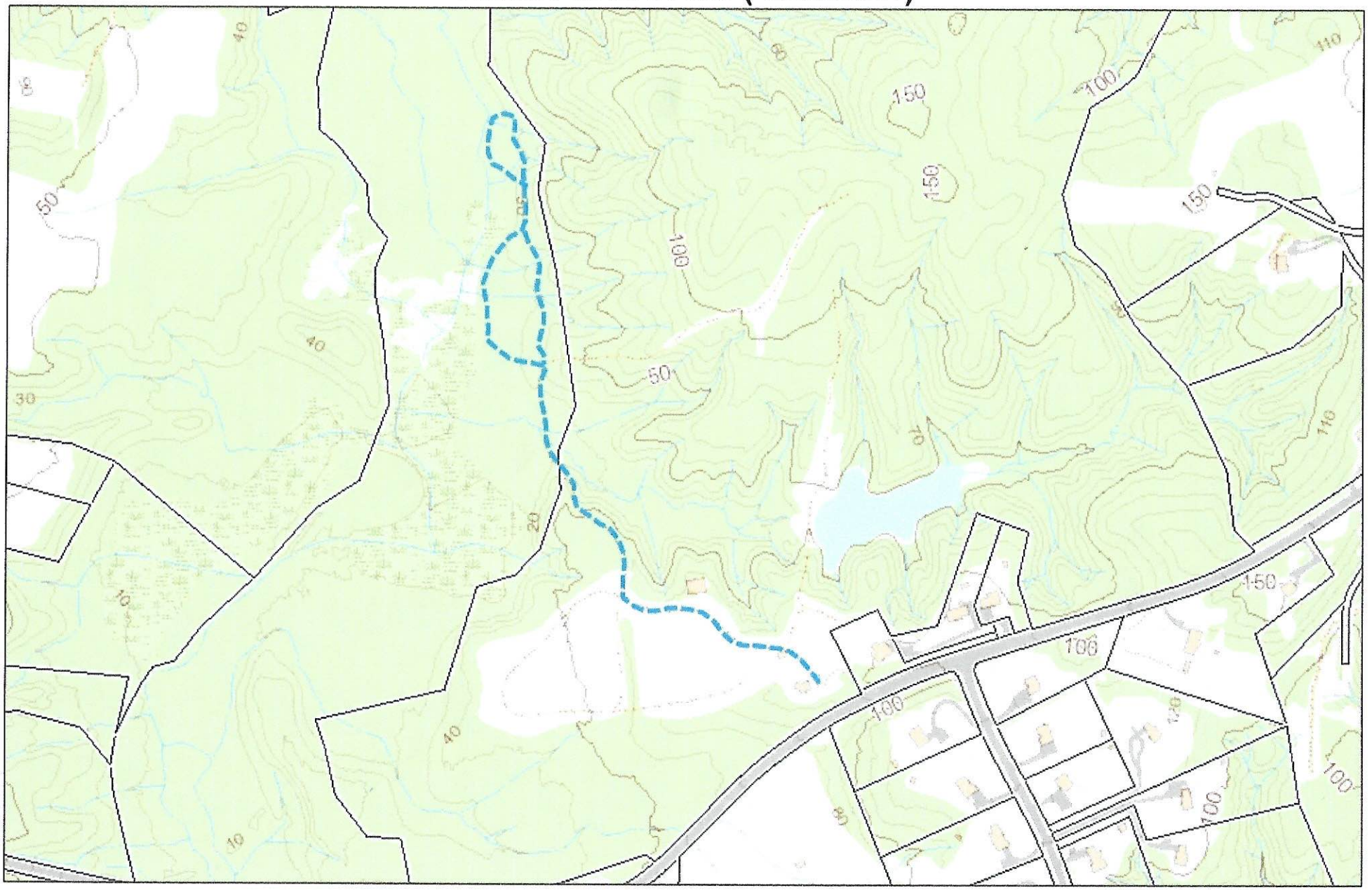
The following requirements would be necessary for a viable program:

1. A yearly orientation program for volunteers in March.
2. A setting of priority areas to be surveyed based either on
   a. Concentration on Calvert County Public Lands or
   b. Most suitable habitat for orchids as determined by present findings.

3. A standardization of reporting and numbering/ labeling plants that can be shared by all participants.
4. Participants should have access to the tools they need for trail documentation as well as access to INaturalist.
5. There should be one person and a second follow-up person that volunteers report to with their data and as a resource for questions and directions. This person would also collate the data at the end of each year.
6. Tipularia should not be included in the study as it has been widely found throughout the County.

It was suggested that Calvert Orchid Conservation work with the County Department of Mapping to make a map of the orchids found between 2018 and 2021. We would suggest that Tipularia not be included in this mapping as it is so abundant. A display of this map might prove to be a help in recruiting volunteers for the program.

Keim Forest/TNC (4/22/2021)



The data represented here are maintained to the best ability of the Calvert County Government. Users assume any and all risks associated with decisions based on this data.

This is not an official map of the Calvert County Government

0 400.00 800.00 Feet

1: 4,800

1 in = 400.00 ft

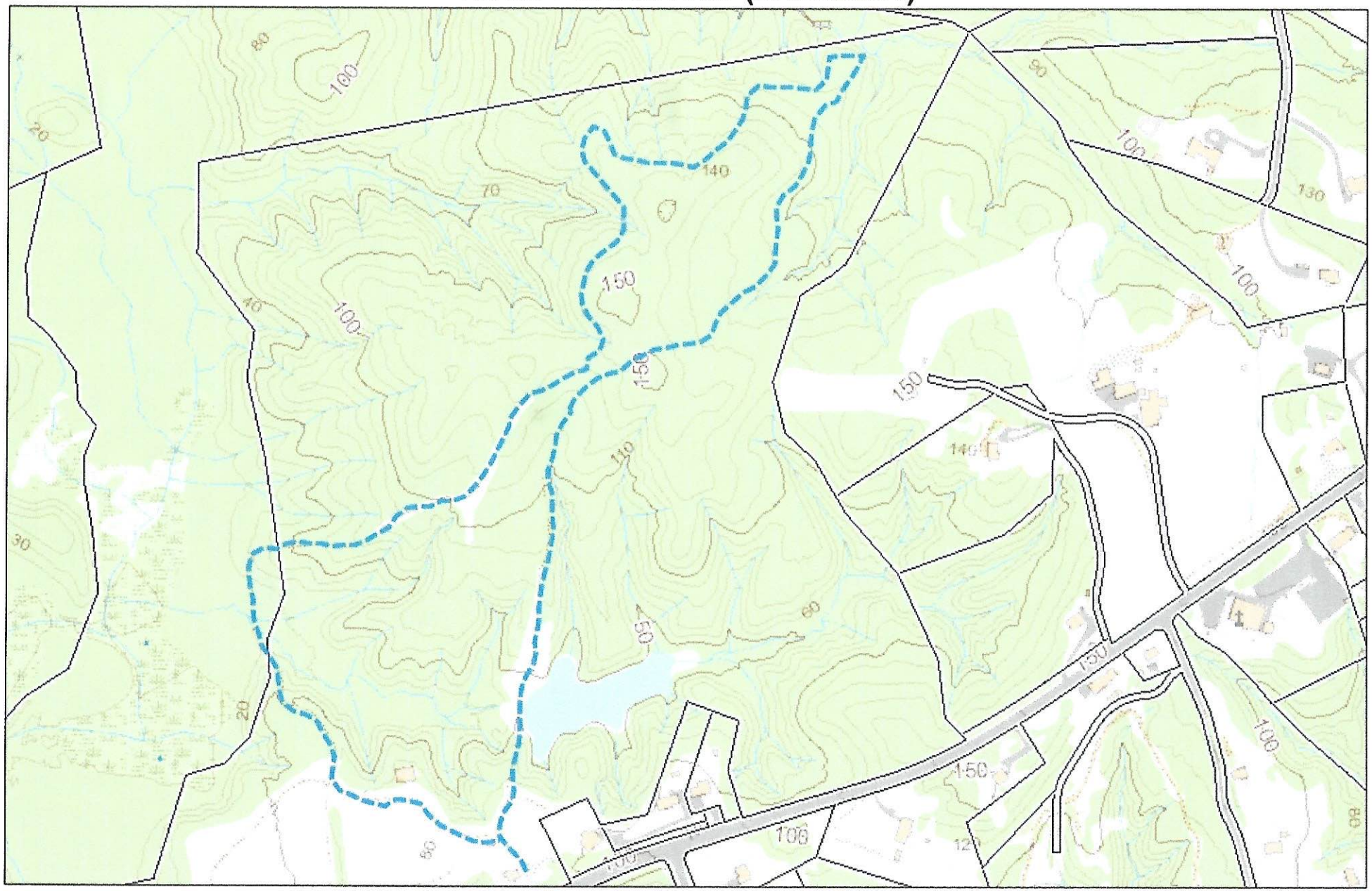
MAP PROJECTION:

NAD_1983_StatePlane_Maryland_FIPS_1900_Feet

Notes

No orchids observed.

Keim Forest/TNC (5/02/2021)



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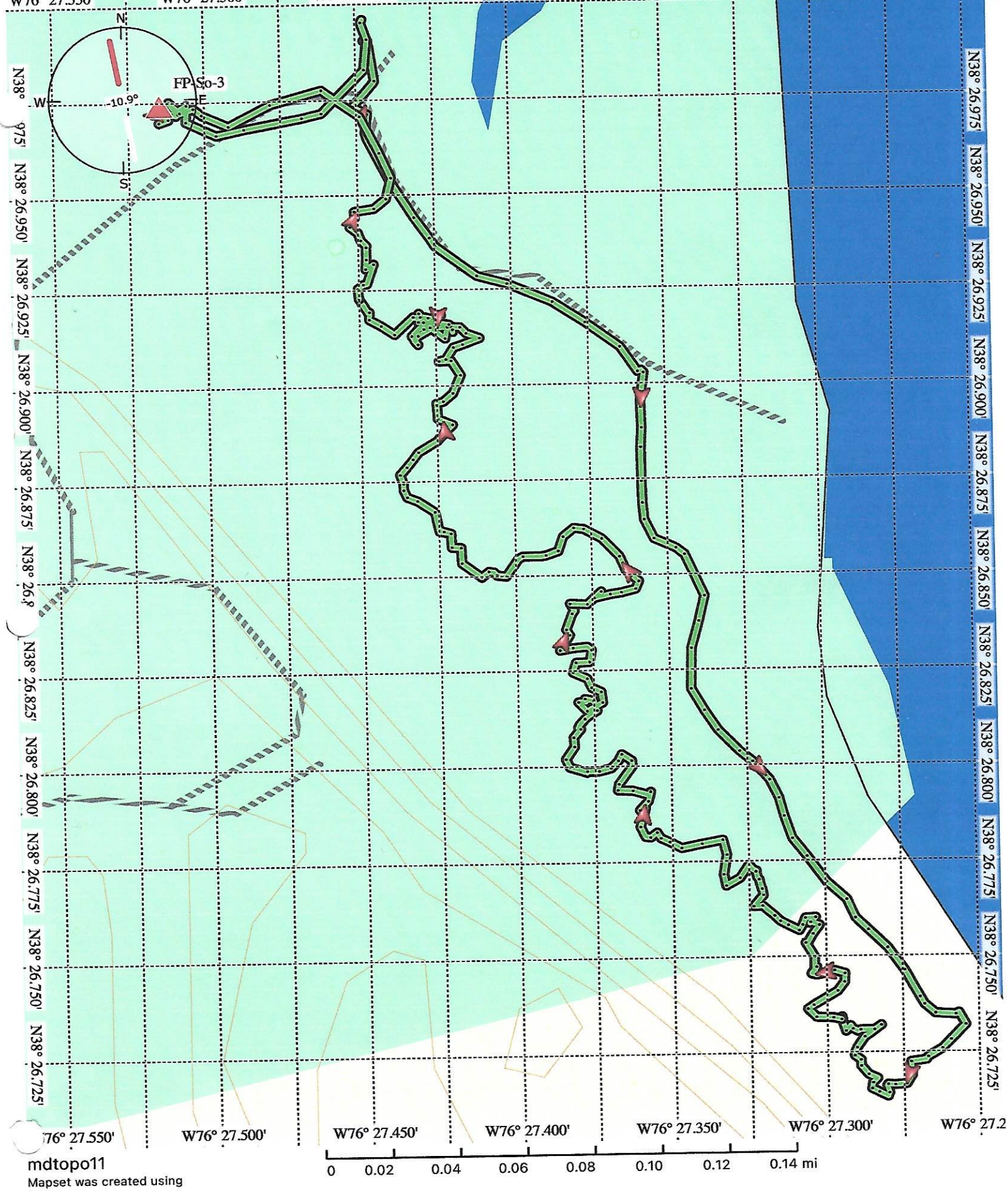

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MapSetToolKit 1.77. gps_mapper.

Flag Ponds Orchid Search (10/08/2021)

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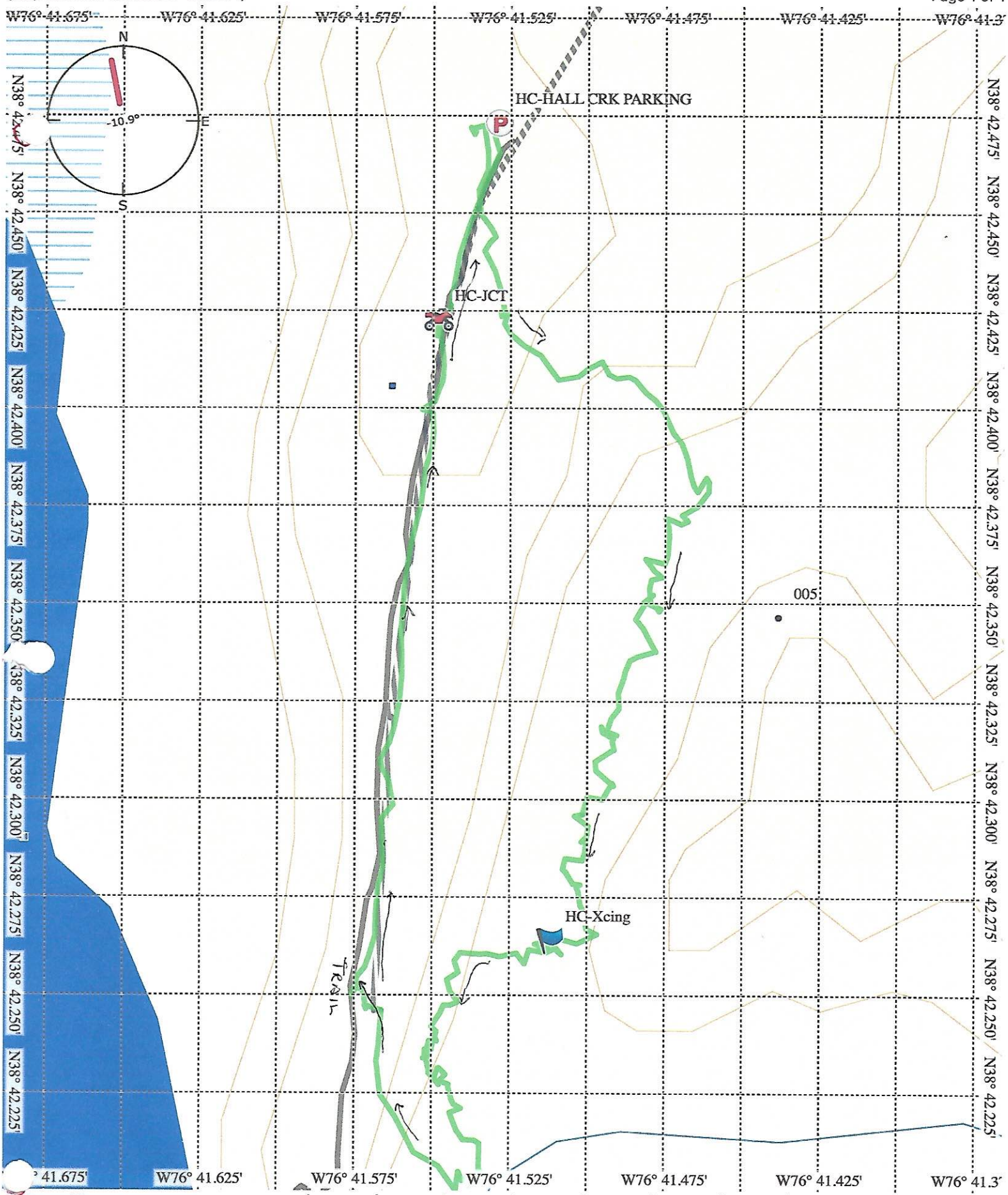

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Mapset was created using MapSetToolKit 1.77. gps_mapper.

Hall Creek - July 9, 2021 No orchids found

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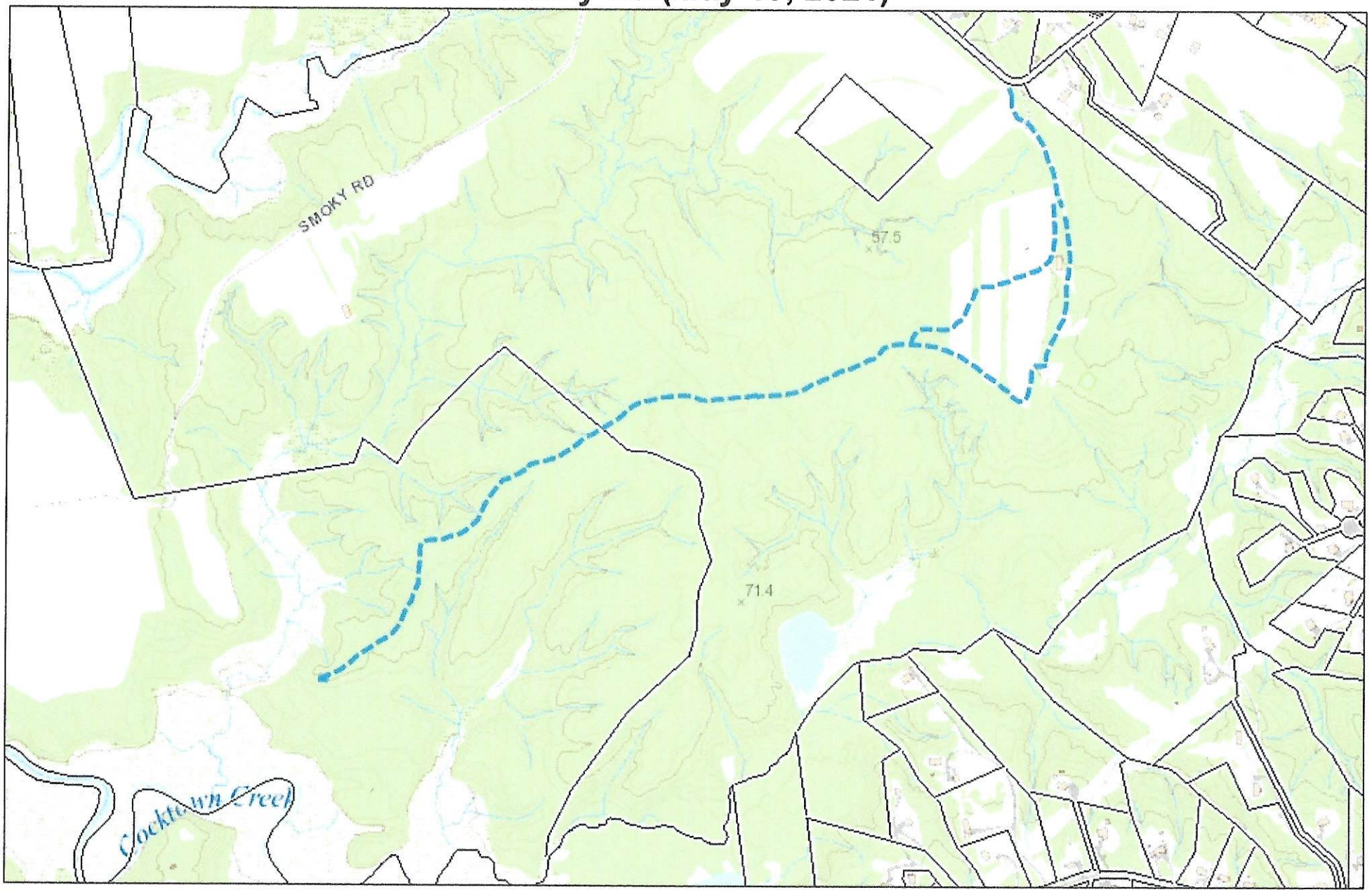
Smoky Rd (May 19, 2021)



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1 in = 800.00 ft

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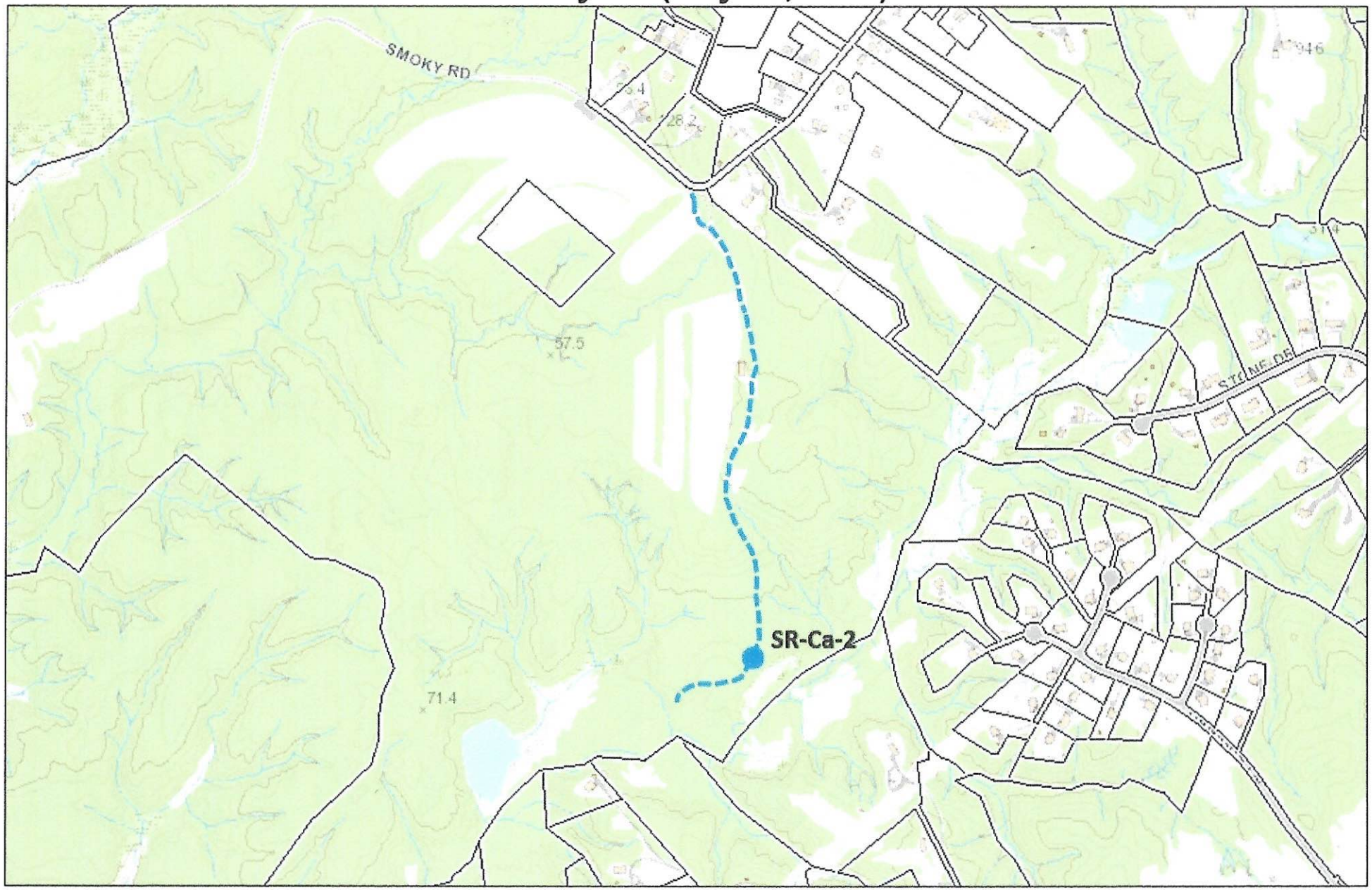
Notes

Smoky Rd (May 26, 2021)



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1 in = 800.00 ft

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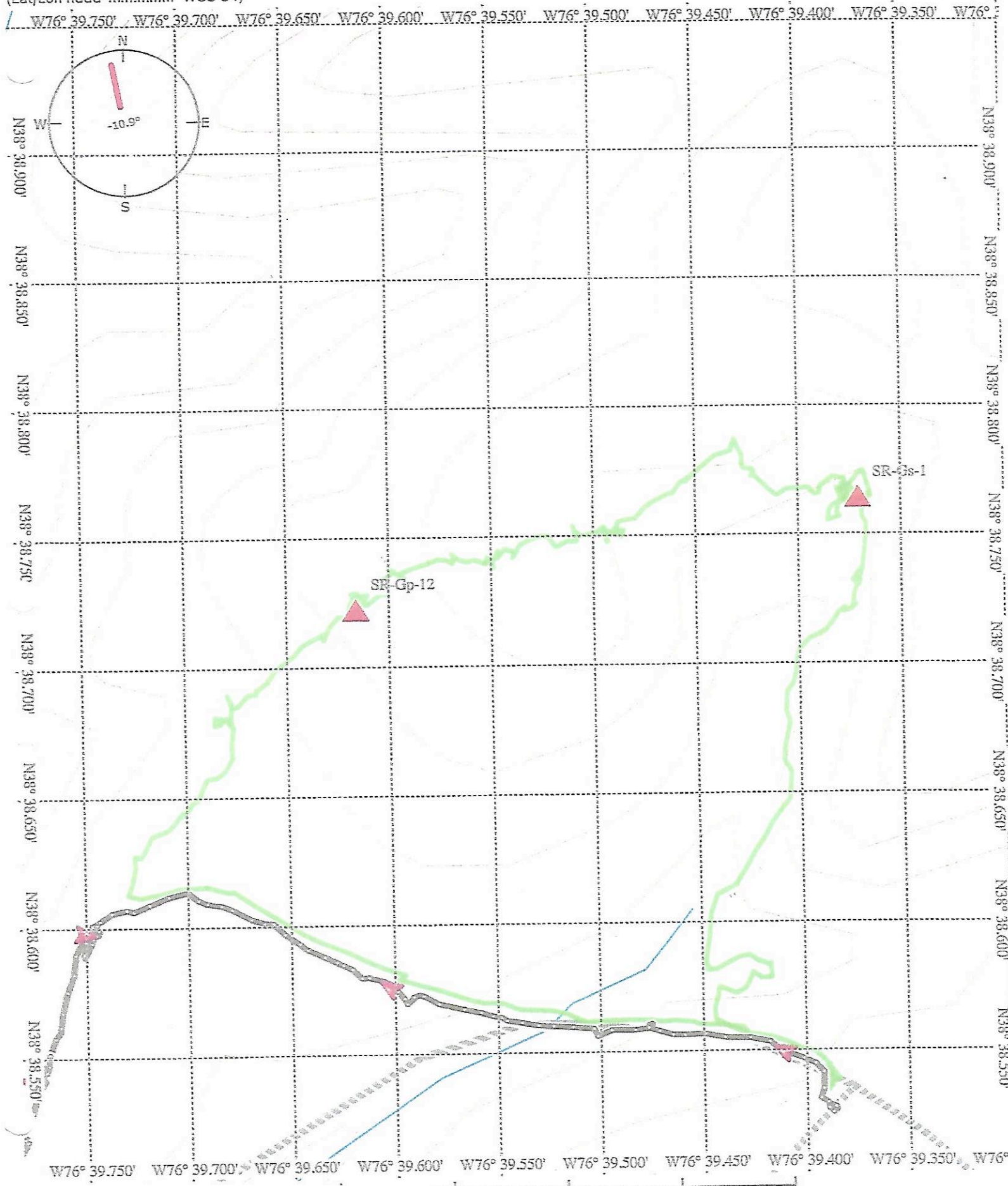
Notes

Cypripedium acaule designated as SR-Ca-2

(Lat/Lon hddd°mm.mmm' WGS 84)



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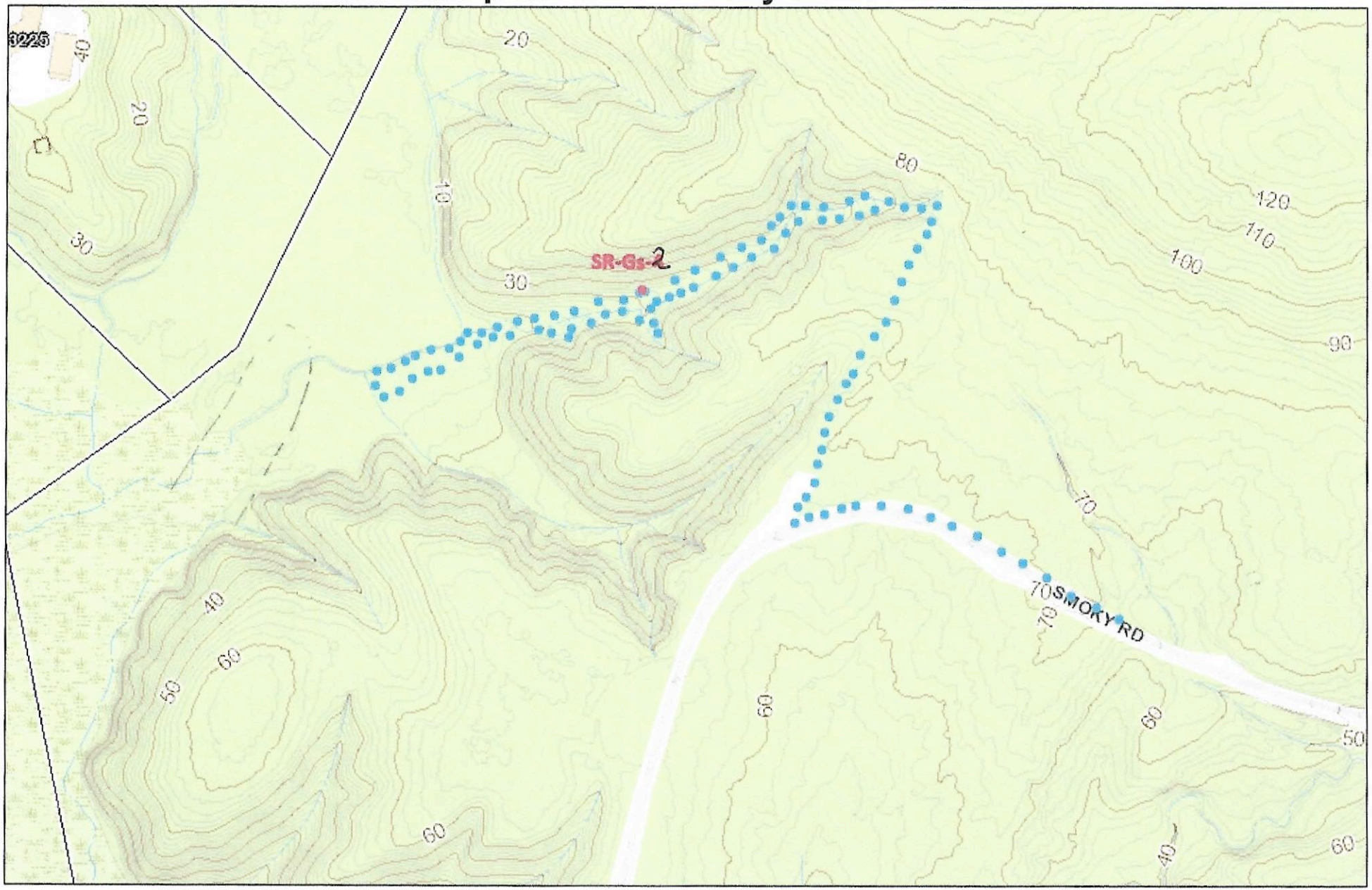
Goodyera pubescens Smoky Rd July 4, 2021

Galearis spectabilis - Smoky Road - 9/10/2021



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1 in = 200.00 ft

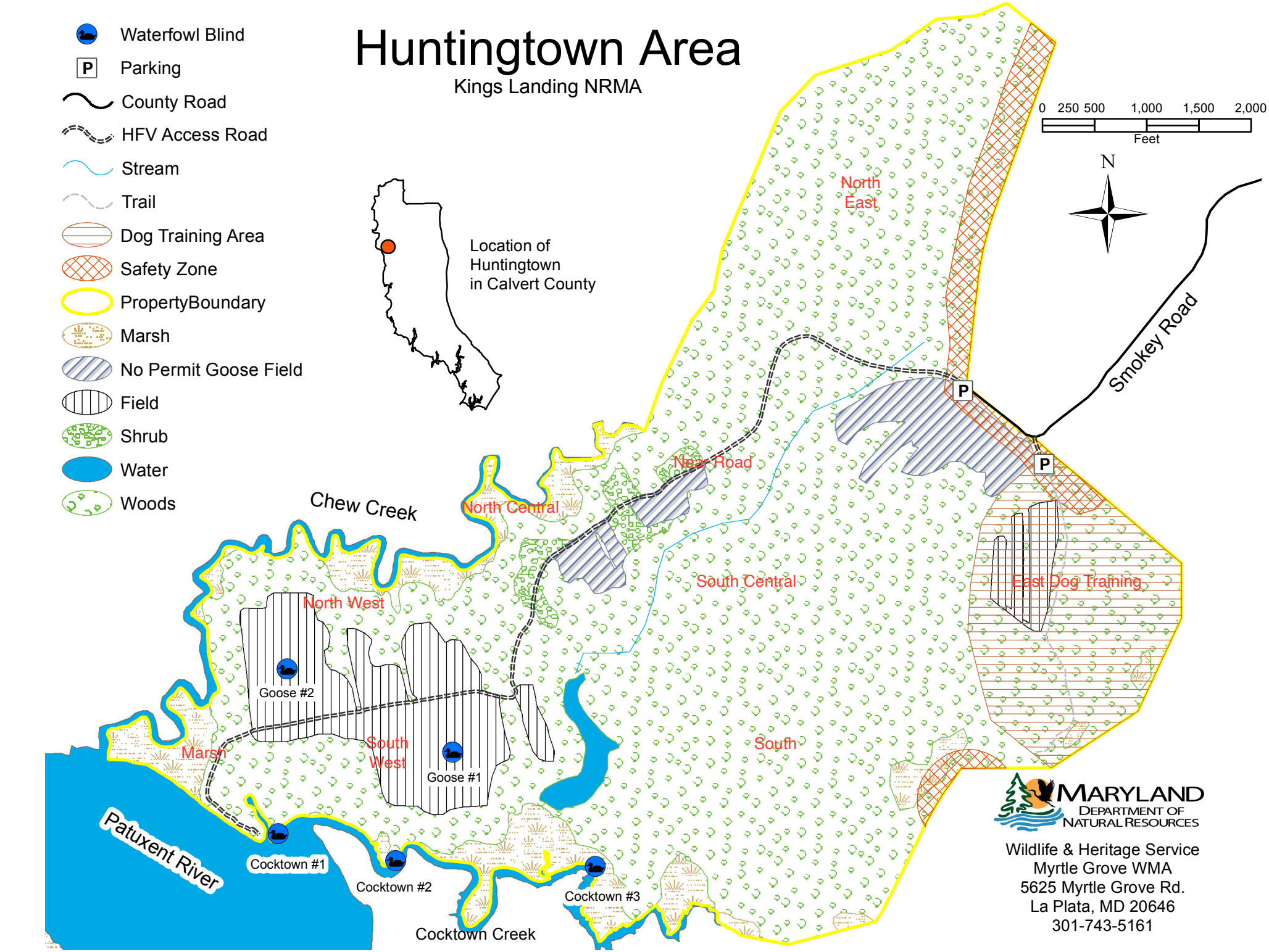
MAP PROJECTION:

NAD_1983_StatePlane_Maryland_FIPS_1900_Feet

Notes

Huntingtown Area

Kings Landing NRMA



MARYLAND DEPARTMENT OF NATURAL RESOURCES

Wildlife & Heritage Service
Myrtle Grove WMA
5625 Myrtle Grove Rd.
La Plata, MD 20646
301-743-5161

Calvert Orchid Project
Running Tally 2018-2021

LOCATION	SPECIES:2018 2019 2020 2021	PLANT ID	COORDINATES	DATE	Leaf, Flower, Seed, Number of Plants	Comments
ACLTN 2019	Galearis spectabilis	ACLT-Gs-1	N38° 31.001'W76° 31.137'	6/30/19	leaf	Our first discovery of Galearis at ACLT (Chestnut Trail)
ACLTN 2019	Galearis spectabilis	ACLT-Gs-2	N38° 30.996'W76° 31.139'	6/30/19	leaf	Our first discovery of Galearis at ACLT (Chestnut Trail)
ACLTN 2018	Goodyera pubescens	ACLT-Gp-1	N38° 33.183'W76° 32.812'	4/20/18	leaf, 7	Double Oak Rd; co-located with ACLT-Td-1
ACLTN 2018	Goodyera pubescens	ACLT-Gp-2	N38° 33.188'W76° 32.827'	4/20/18	leaf,4	Double Oak Rd
ACLTN 2018	Goodyera pubescens	ACLT-Gp-3	N38° 33.175'W76° 32.793'	4/20/18	leaf, several	Double Oak Rd
ACLTN 2018	Goodyera pubescens	ACLT-Gp-4	N38° 33.173'W76° 32.788'	4/20/18	leaf	Double Oak Rd
ACLTN 2018	Tipularia discolor	ACLT-Td-1	N38° 33.183'W76° 32.812'	4/20/18		Double Oak Rd; co-located with ACLT-Gp-1
ACLTN 2018	Tipularia discolor	ACLT-Td-2	N38° 33.173'W76° 32.786'	4/20/18		Double Oak Rd
ACLTN 2018	Tipularia discolor	ACLT-Td-3	N38° 33.192'W76° 32.830'	4/15/18		Double Oak Rd; many in vicinity
ACLTS 2019	Aplectrum hyemale	ACLTS-Ah-1	N38° 30.224'W76° 31.055'	1/6/19	leaf 3	East Loop Trail
ACLTS 2018	Tipularia discolor	ACLTS-Td-05	N38° 31.102'W76° 31.462'	12/29/18	leaf 5	Ridge Loop Trail
ACLTS 2018	Tipularia discolor	ACLTS-Td-06	N38° 31.117'W76° 31.498'	12/29/18	leaf 12	Ridge Loop Trail
ACLTS 2018	Tipularia discolor	ACLTS-Td-07	N38° 31.113'W76° 31.515'	12/29/18	leaf 1	Ridge Loop Trail
ACLTS 2018	Tipularia discolor	ACLTS-Td-08	N38° 31.029'W76° 31.522'	12/29/18	leaf 8	Ridge Loop Trail
ACLTS 2018	Tipularia discolor	ACLTS-Td-09	N38° 30.930'W76° 31.458'	12/29/18	leaf 1	Ridge Loop Trail
ACLTS 2018	Tipularia discolor	ACLTS-Td-10	N38° 30.790'W76° 31.315'	12/29/18	leaf	Ridge Loop Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-11	N38° 30.648'W76° 31.150'	1/27/19	leaf 3	Laurel Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-12	N38° 30.669'W76° 31.138'	1/27/19	leaf 1	Laurel Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-13	N38° 30.664'W76° 31.374'	1/27/19	leaf 10+	Laurel Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-14	N38° 30.665'W76° 31.383'	1/27/19	leaf several	Laurel Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-15	N38° 30.704'W76° 31.432'	1/27/19	leaf 20+	Laurel Trail; large group
ACLTS 2019	Tipularia discolor	ACLTS-Td-16	N38° 30.691'W76° 31.446'	1/27/19	leaf 20+	Laurel Trail; at base of Beech
ACLTS 2019	Tipularia discolor	ACLTS-Td-17	N38° 30.541'W76° 31.342'	1/27/19	leaf 13	Laurel Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-18	N38° 30.561'W76° 31.270'	1/27/19	leaf 10?	Laurel Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-19	N38° 30.546'W76° 31.276'	1/27/19	leaf 13	Laurel Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-20	N38° 30.580'W76° 31.559'	2/3/19	leaf 1	Karen's Trail; single small leaf
ACLTS 2019	Tipularia discolor	ACLTS-Td-21	N38° 30.466'W76° 31.751'	2/3/19	leaf 5	Karen's Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-22	N38° 30.442'W76° 31.768'	2/3/19	leaf 2	Karen's Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-23	N38° 30.403'W76° 31.709'	2/3/19	leaf 85+	Karen's Trail, largest group (85 contiguous at bae of tree)
ACLTS 2019	Tipularia discolor	ACLTS-Td-24	N38° 30.391'W76° 31.648'	2/3/19	leaf 1	Karen's Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-25	N38° 30.311'W76° 31.458'	2/3/19	leaf 5	East Loop Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-26	N38° 30.332'W76° 31.451'	2/3/19	leaf 3	East Loop Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-27	N38° 30.444'W76° 31.376'	2/3/19	leaf 3	East Loop Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-28	N38° 30.449'W76° 31.301'	2/3/19	leaf 7+	East Loop Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-29	N38° 30.859'W76° 31.512'	2/15/19	leaf 6, 1 seed	Flint Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-30	N38° 30.893'W76° 31.604'	2/15/19	leaf 6	Flint Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-31	N38° 31.054'W76° 31.538'	2/15/19	leaf	Flint Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-32	N38° 30.859'W76° 31.512'	2/15/19	leaf	Flint Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-33	N38° 30.893'W76° 31.604'	2/15/19	leaf	Flint Trail
ACLTS 2019	Tipularia discolor	ACLTS-Td-34	N38° 31.054'W76° 31.538'	2/15/19	leaf 7	Flint Trail
BCCCS 2021	Galearis spectabilis	BC-Gs-1	N38° 38.018'W76° 35.446'	7/31/21	1 plant in leaf	Keim Forest near creek base of Tulip tree
BCCCS 2021	Galearis spectabilis	BC-Gs-2	N38° 30.06'W76° 35.469'	7/31/21	3 plants +1 in leaf &	Keim Forest North of Gs-1
BGHF 2020	Aplectrum hyemale	BG-Ah-1	N38° 48587'W76° 5863'	12/13/20	68 in leaf	Forest Trail
DDP 2018	Tipularia discolor	DDP Td 1	N38° 43.430'W76° 39.940'	4/20/18	leaf 60	Near stream
DDP 2018	Tipularia discolor	DDP Td 2	N38° 43.448'W76° 39.967'	4/20/18	leaf	Near stream, Td-2 through Td-11 are one site on iNaturalist
DDP 2018	Tipularia discolor	DDP Td 3	N38° 43.444'W76° 39.960'	4/20/18	leaf	Near stream, Td-2 through Td-11 are one site on iNaturalist
DDP 2018	Tipularia discolor	DDP Td 4	N38° 43.447'W76° 39.958'	4/20/18	leaf	Near stream, Td-2 through Td-11 are one site on iNaturalist
DDP 2018	Tipularia discolor	DDP Td 5	N38° 43.448'W76° 39.965'	4/20/18	leaf	Near stream, Td-2 through Td-11 are one site on iNaturalist
DDP 2018	Tipularia discolor	DDP Td 6	N38° 43.442'W76° 39.960'	4/20/18	leaf	Near stream, Td-2 through Td-11 are one site on iNaturalist
DDP 2018	Tipularia discolor	DDP Td 7	N38° 43.442'W76° 39.956'	4/20/18	leaf	Near stream, Td-2 through Td-11 are one site on iNaturalist
DDP 2018	Tipularia discolor	DDP Td 8	N38° 43.441'W76° 39.958'	4/20/18	leaf	Near stream, Td-2 through Td-11 are one site on iNaturalist
DDP 2018	Tipularia discolor	DDP Td 9	N38° 43.439'W76° 39.960'	4/20/18	leaf	Near stream, Td-2 through Td-11 are one site on iNaturalist
DDP 2018	Tipularia discolor	DDP Td 10	N38° 43.440'W76° 39.951'	4/20/18	leaf	Near stream, Td-2 through Td-11 are one site on iNaturalist
DDP 2018	Tipularia discolor	DDP Td 11	N38° 43.425'W76° 39.948'	4/20/18	leaf	Near stream, Td-2 through Td-11 are one site on iNaturalist
FPNP 2018	Apletrum hyemale	FP-Ah-1	N38° 27.008'W76° 27.642'	3/12/18	leaf 2	Lower North Ridge Trail
FPNP 2018	Goodyera pubescens	FP-Gp-1	N38° 27.166'W76° 27.771'	8/5/18	leaf	Lower North Ridge Trail
FPNP 2019	Galearis spectabilis	FP-Gs-01	N38° 26.691'W76° 27.326'	4/28/19	leaf	South Ridge Trail
FPNP 2019	Galearis spectabilis	FP-Gs-02	N38° 26.690'W76° 27.357'	4/28/19	leaf	South Ridge Trail
FPNP 2019	Galearis spectabilis	FP-Gs-03	N38° 26.681'W76° 27.381'	4/28/19	leaf	South Ridge Trail
FPNP 2019	Galearis spectabilis	FP-Gs-04	N38° 26.675'W76° 27.410'	4/28/19	leaf	South Ridge Trail
FPNP 2019	Galearis spectabilis	FP-Gs-05	N38° 26.680'W76° 27.418'	4/28/19	leaf	South Ridge Trail
FPNP 2019	Galearis spectabilis	FP-Gs-06	N38° 26.673'W76° 27.443'	4/28/19	leaf	South Ridge Trail
FPNP 2019	Galearis spectabilis	FP-Gs-07	N38° 26.670'W76° 27.451'	4/28/19	leaf	South Ridge Trail
FPNP 2019	Galearis spectabilis	FP-Gs-08	N38° 26.665'W76° 27.581'	4/28/19	leaf	South Ridge Trail
FPNP 2019	Galearis spectabilis	FP-Gs-09	N38° 26.667'W76° 27.585'	4/28/19	leaf	South Ridge Trail
FPNP 2019	Galearis spectabilis	FP-Gs-10	N38° 26.676'W76° 27.592'	4/28/19	leaf	South Ridge Trail
FPNP 2019	Galearis spectabilis	FP-Gs-11	N38° 26.670'W76° 27.587'	4/28/19	leaf	South Ridge Trail
FPNP 2019	Galearis spectabilis	FP-Gs-12	N38° 27.045'W76° 27.684'	5/17/19	leaf	Lower North Ridge Trail; additional plants to the south, but
FPNP 2019	Galearis spectabilis	FP-Gs-13	N38° 27.041'W76° 27.684'	5/17/19	leaf	Lower North Ridge Trail; additional plants to the south, but
FPNP 2018	Platanthera clavellata	FP-Pc-1	N38° 27.241'W76° 28.159'	10/6/18	seed 3	Floodplain
FPNP 2018	Platanthera clavellata	FP-Pc-2	N38° 27.155'W76° 28.215'	10/6/18	leaf 4, seed 1	Floodplain
FPNP 2019	Platanthera clavellata	FP-Pc-3	N38° 27.241'W76° 28.159'	7/24/19	leaf	Floodplain
FPNP 2019	Platanthera clavellata	FP-Pc-4	N38° 27.184'W76° 28.201'	7/24/19	leaf	Floodplain
FPNP 2018	Spiranthes ovalis	FP-So-1	N38° 26.969'W76° 27.511'	10/6/18	Flower 2	Duncan Pond near trail head. Not in iNaturalist, but in MD Plant Atlas; not found in 2019
FPNP 2019	Spiranthes ovalis	FP-So-2	N38° 26.974'W76° 27.510'	9/21/19	Flower	Original 2018 finding next to Duncan Pond Trail
FPNP 2020	Spiranthes ovalis	FP-So	Same site extended	10/24/2020	Flower, leaf	3 groupings with a total of 25 -30 plants, marked with 8" nails
FPNP 2018	Tipularia discolor	FP-Td-1	N38° 27.042'W76° 27.762'	8/5/18	Flower	Upper North Ridge Trail
FPNP 2018	Tipularia discolor	FP-Td-2	N38° 26.905'W76° 27.750'	8/5/18	Flower 3	Upper North Ridge Trail
FPNP 2018	Tipularia discolor	FP-Td-3	N38° 26.850'W76° 27.709'	8/5/18	Flower 2	Upper North Ridge Trail Spur
FPNP 2018	Tipularia discolor	FP-Td-4	N38° 27.264'W76° 28.126'	10/6/18	leaf 3	Off trail, North Loop Trail
FPNP 2018	Tipularia discolor	FP-Td-5	N38° 27.356'W76° 28.080'	10/14/18	leaf 1	Off trail, North Ridge Trail
GP 2018	Tipularia discolor	GP-Td-1	N38° 29.158'W76° 35.341'	11/14/18	leaf	South side of driveway 6 groups in 10'X 30'
HCNRMA 2019	Cypripedium acaule	HC-Ca-1	N38° 42.397'W76° 41.561'	4/25/2019	8 flower groups, eac	Ca-1, Ca-2, Ca-3 are grouped together on iNaturalist. In dying W. pine area. 4/25/19 in bud (white)
HCNRMA 2019	Cypripedium acaule	HC-Ca-2	N38° 42.397'W76° 41.563'	4/25/2019	8 flower groups, eac	Ca-1, Ca-2, Ca-3 are grouped together on iNaturalist. In dying W. pine area.
HCNRMA 2019	Cypripedium acaule	HC-Ca-3	N38° 42.396'W76° 41.559'	4/25/2019	8 flower groups, eac	Ca-1, Ca-2, Ca-3 are grouped together on iNaturalist. In dying W. pine area.
HCNRMA 2019	Cypripedium acaule	HC-Ca-1	N38° 42.397'W76° 41.561'	4/25/2019	8 flower groups, eac	Ca-1, Ca-2, Ca-3 are grouped together on iNaturalist. In dying W. pine area. 4/25/19 in bud (white)
HCNRMA 2019	Cypripedium acaule	HC-Ca-2	N38° 42.397'W76° 41.563'	4/25/2019	8 flower groups, eac	Ca-1, Ca-2, Ca-3 are grouped together on iNaturalist. In dying W. pine area.
HCNRMA 2019	Cypripedium acaule	HC-Ca-3	N38° 42.396'W76° 41.559'	4/25/2019	8 flower groups, eac	Ca-1, Ca-2, Ca-3 are grouped together on iNaturalist. In dying W. pine area.
HCNRMA 2020	Cypripedium acaule	HC-Ca-1-3	3 sites above	11/23/20	No plants seen	Dead pines that had fallen were cut and stacked on area where orchids were growing
HCNRMA 2018	Cypripedium acaule	HC-Ca-4	N38° 42.326'W76° 41.564'	5/6/18	leaf 2	Main Trail to River
HCNRMA 2018	Goodyera pubescens	HC-Gp-1	N38° 41.802'W76° 41.307'	3/18/18	leaf	Off Trail in Hunting Area with Lycopodium
HCNRMA 2018	Goodyera pubescens	HC-Gp-2	N38° 41.734'W76° 41.245'	3/18/18	leaf > 50	Off Trail in Hunting Area with Lycopodium . Includes Gp-3
HCNRMA 2018	Goodyera pubescens	HC-Gp-3	N38° 41.714'W76° 41.245'	3/18/18		Off Trail in Hunting Area with Lycopodium . Includes Gp-3
HCNRMA 2018	Goodyera pubescens	HC-Gp-4	N38° 41.714'W76° 41.251'	3/18/18		Off Trail in Hunting Area with Lycopodium . Includes Gp-3
HCNRMA 2018	Goodyera pubescens	HC-Gp-5	N38° 41.714'W76° 41.240'	3/18/18		Off Trail in Hunting Area with Lycopodium . Includes Gp-3
HCNRMA 2018	Goodyera pubescens	HC-Gp-6	N38° 41.704'W76° 41.234'	3/18/18		Off Trail in Hunting Area with Lycopodium . Includes Gp-3
HCNRMA 2018	Goodyera pubescens	HC-Gp-7	N38° 41.704'W76° 41.238'	8/22/18		Off Trail in Hunting Area with Lycopodium . Includes Gp-3
HCNRMA 2018	Goodyera pubescens	HC-Gp-8	N38° 41.696'W76° 41.230'	3/18/18		Southeren limit of Gp group.

Calvert Orchid Project
Running Tally 2018-2021

LOCATION	SPECIES:2018 2019 2020 2021	PLANT ID	COORDINATES	DATE	Leaf, Flower, Seed, Number of Plants	Comments
HCNRMA 2019	Liparis lilifolia	HC-Ll-1	N38° 41.805' W76° 41.246'	5/6/19	leaf, bud	East side at edge of trail at top of berm. Additional plants at edge of trail about 5 p south.
HCNRMA 2019	Liparis lilifolia	HC-Ll-2	N38° 41.806' W76° 41.243'	5/6/19	leaf, bud	19 p east of trail at top of berm
HCNRMA 2019	Liparis lilifolia	HC-Ll-2	N38° 41.806' W76° 41.243'	5/6/19	leaf, bud	19 p east of trail at top of berm
HCNRMA 2020	Neotti a bifolia	HC-Nb-1	N38°.7009533' W76.6924	4/12/20	Flower, leaf	50 plants scattered over 40'X40' floodplain
HCNRMA 2018	Tipularia discolor	HC-Td-1	N38° 42.023' W76° 41.544'	3/18/18	leaf 1	Blue Blaze Trail in Hunting area
HCNRMA 2018	Tipularia discolor	HC-Td-2	N38° 42.284' W76° 41.652'	5/6/18	leaf 5-6	Side trail to river
HCNRMA 2018	Tipularia discolor	HC-Td-3	N38° 42.297' W76° 41.568'	10/8/18	leaf 3	Main Trail to River
HCNRMA 2018	Tipularia discolor	HC-Td-4	N38° 42.285' W76° 41.567'	10/12/18	leaf 33, seed 10	Main trail to River
HCNRMA 2018	Tipularia discolor	HC-Td-5	N38° 42.244' W76° 41.582'	10/8/18	leaf 3	Main Trail to River
HCNRMA 2018	Tipularia discolor	HC-Td-6	N38° 42.295' W76° 41.568'	10/8/18	leaf 3	Main Trail to River
HCNRMA 2018	Tipularia discolor	HC-Td-7	N38° 42.556' W76° 41.677'	10/8/18	leaf and seed	Marsh near Kaylorite Mine
HCNRMA 2018	Tipularia discolor	HC-Td-8	N38° 42.484' W76° 41.640'	10/8/18	leaf 15, seed 5	Trail to Kaylorite Mine
HCNRMA 2019	Tipularia discolor	HC-Td-9	N38° 41.947' W76° 41.471'	2/22/19		no picture/ not in iNaturalist
HTF 2018	Tipularia discolor	HF-Td-1	N38° 34.284' W76° 34.432'	4/3/18	leaf 30+	Before main intersection. Includes Td-1, Td-2, Td-3 in iNaturalist.
HTF 2018	Tipularia discolor	HF-Td-2	N38° 34.279' W76° 34.431'	4/3/18		Before main intersection. Includes Td-1, Td-2, Td-3
HTF 2018	Tipularia discolor	HF-Td-3	N38° 34.272' W76° 34.417'	4/3/18		Before main intersection. Includes Td-1, Td-2, Td-3 in iNaturalist.
HTF 2018	Tipularia discolor	HF-Td-4	N38° 34.126' W76° 34.697'	4/3/18	leaf	Road to Pond
HTF 2018	Tipularia discolor	HF-Td-5	N38° 34.199' W76° 34.604'	4/3/18	leaf 1	
HTF 2018	Tipularia discolor	HF-Td-6	N38° 34.262' W76° 34.438'	4/3/18	leaf	Trail to Cat Station. Includes Td-6. Td-7, Td-8 in iNaturalist.
HTF 2018	Tipularia discolor	HF-Td-7	N38° 34.226' W76° 34.458'	4/3/18	leaf	Trail to Cat Station. Includes Td-6. Td-7, Td-8 in iNaturalist.
HTF 2018	Tipularia discolor	HF-Td-8	N38° 34.239' W76° 34.450'	4/3/18	leaf	Trail to Cat Station. Includes Td-6. Td-7, Td-8 in iNaturalist.
KLP 2018	Tipularia discolor	KL-Td-1	N38° 37.457' W76° 40.075'	4/22/18	leaf 4	Trail to Amphitheater
KLP 2018	Tipularia discolor	KL-Td-2	N38° 37.448' W76° 40.081'	4/22/18	leaf 9	Trail to Amphitheater
KLP 2018	Tipularia discolor	KL-Td-3	N38° 37.451' W76° 40.110'	4/22/18	leaf 6+ clumps scatt	Around cinderblock bldg on road to Amphitheatre. Includes Td-4 and Td-5
KLP 2018	Tipularia discolor	KL-Td-4	N38° 37.453' W76° 40.118'	4/22/18	leaf 6+ clumps scatt	Around cinderblock bldg on road to Amphitheatre. Includes Td-4 and Td-5
KLP 2018	Tipularia discolor	KL-Td-5	N38° 37.442' W76° 40.110'	4/22/18	leaf 6+ clumps scatt	Around cinderblock bldg on road to Amphitheatre. Includes Td-4 and Td-5
KLP 2018	Tipularia discolor	KL-Td-6	N38° 37.625' W76° 40.385'	4/29/18	leaf	Wetlands Trail
KLP 2018	Tipularia discolor	KL-Td-7	N38° 37.662' W76° 40.375'	4/29/18	leaf	Several groups at Observation Blind
KLP 2018	Tipularia discolor	KL-Td-8	N38° 37.647' W76° 40.397'	4/29/18	leaf	Wetland Trail Boardwalk
KLP 2018	Tipularia discolor	KL-Td-9	N38° 37.617' W76° 40.459'	4/29/18	leaf many	Wetland Trail extended 24' X 10'
KLP 2018	Tipularia discolor	KL-Td-10	N38° 37.665' W76° 40.365'	9/30/18	No data	
PF2Bay 2018	Cypripedium acaule	PF2B-Ca-1	N38° 32.801' W76° 32.918'	6/8/18	leaf, seed	East of gate near Power line; 1 plant on nouth side of Trail
PF2Bay 2018	Cypripedium acaule	PF2B-Ca-2	N38° 32.809' W76° 32.914'	6/8/18	leaf, seed	East of gate near Power line; 2 plants on south side of Trail
PF2Bay 2018	Galearis spectablis	PF2B-Gs-1	N38° 32.665' W76° 32.568'	6/8/18	leaf, seed 4	On trail and down slope
PF2Bay 2018	Galearis spectablis	PF2B-Gs-2	N38° 32.661' W76° 32.569'	6/8/18		multiple plants - includes photos labeled Gs-2 to Gs-6; approx. 10' S
PF2Bay 2018	Galearis spectablis	PF2B-Gs-7	N38° 32.684' W76° 32.630'	6/8/18	Leaf 15, stem 1	
PF2Bay 2018	Galearis spectablis	PF2B-Gs-8	N38° 32.724' W76° 32.717'	6/8/18	Leaf	10 plants in vacinity. Photos labeled Gs-8 to Gs-12
PF2Bay 2018	Galearis spectablis	PF2B-Gs-13	N38° 32.733' W76° 32.722'	6/8/18	Single Leaf	No data
SRNRMA 2018	Aplectrum hyemale	SR-Ah-1	N38° 38.541' W76° 39.774'	5/5/2018	leaf 7; 6-4-18 flower	Main road in ditch. Revisit. Revisit to see if plants survived aper road work.
SRNRMA 2019	Aplectrum hyemale	SR-Ah-1	N38° 38.541' W76° 39.774'	5/14/2019	leaf 7; 6-4-18 flower	Main road in ditch. Revisit. Revisit to see if plants survived aper road work.
SRNRMA 2020	Aplectrum hyemale	SR-Ah-1	N38° 38.541' W76° 39.774'	9/24/2020	leaf 7; 6-4-18 flower	Main road in ditch. Revisit. Revisit to see if plants survived aper road work.
SRNRMA 2018	Corallorhiza odontorhiza	SR-Co-1	N38° 38.560' W76° 39.460'	10/3/18	2 clumps with 15 ste	Bill Hubick found. Does not want location public. Found in roadside ditch.
SRNRMA 2019	Corallorhiza odontorhiza	SR-Co-2	N38° 38.560' W76° 39.460'	10/1/19	2 clumps	Revisit on 10/1/19 to verify plant survival
SRNRMA 2020	Corallorhiza odontorhiza	SR-Co 1-2	See above sites	9/24/20	2 clumps	Revisit to verify plants. Small plants in bloom despite road work disturbance
SRNRMA 2018	Cypripedium acaule	SR-Ca-1	N38° 38.606' W76° 39.683'	6/4/18	plants 3, stem 1	Side of Road; same location as SR- Gp-2
SRNRMA 2021	Cypripedium acaule	SR-Ca-2	N38° 37.987' W76° 39.171'	5/26/21	6+ plants	South edge of East Dog Training
SRNRMA 2021	Galearis spectabilis	SR-Gs-1	N38° 38.765' W76° 39.371'	7/4/21	1 plant in leaf	North East washed area
SRNRMA 2021	Galearis spectabilis	SR-Gs-2	N38° 38.689' W76° 39.768'	9/10/21	5 plants & 5 10' upst	North Central in ravine
SRNRMA 2018	Goodyera pubescens	SR-Gp-1	N38° 38.460' W76° 39.745'	6/4/18	leaf 1, seed 1	Off trail. SE end of several occurrences extending NW
SRNRMA 2018	Goodyera pubescens	SR-Gp-2	N38° 38.606' W76° 39.683'	6/4/18	leaf 5; 7-29-18	Off trail; same location as SR-Ca-1.
SRNRMA 2018	Goodyera pubescens	SR-Gp-3	N38° 38.512' W76° 39.643'	7/29/18	leaf 13	Off trail on upper W slope of stream bank
SRNRMA 2018	Goodyera pubescens	SR-Gp-4	N38° 38.467' W76° 39.758'	7/29/18	leaf 18+; 1 old flowe	Off trail. Many groups along old trail to NW and SE to SR-Gp-1
SRNRMA 2018	Goodyera pubescens	SR-Gp-5	N38° 38.489' W76° 39.761'	7/29/18	leaf	Off trail; 2 groups.
SRNRMA 2018	Goodyera pubescens	SR-Gp-6	N38° 38.494' W76° 39.767'	7/29/18	leaf	Off trail; 2 plants.
SRNRMA 2018	Goodyera pubescens	SR-Gp-7	N38° 38.552' W76° 39.433'	7/29/18	Flower 3	Near gate on bank; 3 p west of SR- Td-9
SRNRMA 2018	Goodyera pubescens	SR-Gp-8	N38° 38.509' W76° 39.779'	7/30/18	leaf 4	Off trail
SRNRMA 2018	Goodyera pubescens	SR-Gp-9	N38° 38.568' W76° 39.457'	10/3/18	leaf, stem	Off trail near stream
SRNRMA 2021	Goodyera pubescens	SR-Gp-10	N38° 38.904' W76° 39.403'	6/17/21	1 plant Leaf & bud	North East on trail under log
SRNRMA 2021	Goodyera pubescens	SR-Gp-11	N38° 38.871' W76° 39.433'	6/17/21	8 plants Leaf & bud	North East on deer trail with Lycopodeum
SRNRMA 2021	Goodyera pubescens	SR-Gp-12	N38° 38.871' W76° 39.433'	7/4/21	Several plants Leaf &	North East on deer trail with Lycopodeum between River Birch
SRNRMA 2018	Tipularia discolor	SR-Td-1	N38° 38.438' W76° 39.855'	5/5/18	leaf	Near road 10'
SRNRMA 2018	Tipularia discolor	SR-Td-2	N38° 38.346' W76° 40.070'	5/5/18	leaf	South of road
SRNRMA 2018	Tipularia discolor	SR-Td-3	N38° 38.584' W76° 39.599'	7/29/18	Flower	North of road
SRNRMA 2018	Tipularia discolor	SR-Td-4	N38° 38.579' W76° 39.614'	7/29/18	Flower 3	South side of road 3' To Southern Red Oak ; 30 p. N of a second
SRNRMA 2018	Tipularia discolor	SR-Td-5	N38° 38.552' W76° 39.633'	7/29/18	7 plant, leaf, bud an	Off trail SW top of 3' deep drainage ditch; larger group to east at jct with 2nd ditch at base
SRNRMA 2018	Tipularia discolor	SR-Td-6	N38° 38.466' W76° 39.709'	7/29/18	Flower 1	South of Old Smoky Rd on lower flood plain S of stream with Xmas
SRNRMA 2018	Tipularia discolor	SR-Td-7	N38° 38.117' W76° 40.232'	7/29/18	Flower	South side of Road in woods E of fields at upper slope above pond
SRNRMA 2018	Tipularia discolor	SR-Td-9	N38° 38.552' W76° 39.433'	7/29/18	Flower 1	South side of road near entrance gate
SRNRMA 2018	Tipularia discolor	SR-Td-10	N38° 38.560' W76° 39.457'	10/3/18	leaf 8, stem 2	Off trail; A larger group is located 4' to the west.
SRNRMA 2018	Tipularia discolor	SR-Td-11	N38° 38.548' W76° 39.528'	10/3/18	leaf 24, some with s	Off trail
WFNP 2018	Goodyera pubescens	WF-GP-1	N38° 42.919' W76° 38.857'	3/28/18	leaf	SW corner of park
WFNP 2018	Goodyera pubescens	WF-Gp-2	N38° 42.933' W76° 38.822'	3/29/18	leaf 4	Intersection of 3 trails
WFNP 2018	Goodyera pubescens	WF-Gp-3	N38° 43.043' W76° 38.295'	6/10/18	leaf	Abandoned trail
WFNP 2018	Tipularia discolor	WF-Td-1	N38° 43.078' W76° 38.321'	2/27/18	leaf	unnamed trail over bridge
WFNP 2018	Tipularia discolor	WF-Td-2	N38° 43.095' W76° 38.191'	3/10/18	leaf 9	Off trail at edge of park
WFNP 2018	Tipularia discolor	WF-TD-3	N38° 43.046' W76° 38.762'	3/29/18	leaf	Unnamed trail
WFNP 2018	Tipularia discolor	WF-TD-4	N38° 43.046' W76° 38.756'	3/29/18	leaf	Unnamed trail
WFNP 2018	Tipularia discolor	WF-TD-5	N38° 43.060' W76° 38.797'	3/29/18	leaf	Unnamed trail
WFNP 2018	Tipularia discolor	WF-TD-6	N38° 42.997' W76° 38.591'	3/29/18	No data	
YBR 2018	Galearis spectablis	YB-Gs-1	N38° 43.897' W76° 40.275'	4/30/18	3 clusters of 3 to 7 pl	Private gravel road off Yellow Bank
YBR 2018	Galearis spectablis	YB-Gs-2	N38° 43.933' W76° 40.375'	4/30/18	3 plants in 1 cluster	Private gravel road off Yellow Bank
YBR 2018	Galearis spectablis	YB-Gs-3a	N38° 43.906' W76° 40.286'	5/4/18	2 clusters bloom be	Private gravel road off Yellow Bank
YBR 2018	Galearis spectablis	YB-Gs-3b	N38° 43.907' W76° 40.286'	5/4/18	Same as Gp-3a	Private gravel road off Yellow Bank
YBR 2018	Tipularia discolor	YB-Td-1	N38° 43.893' W76° 40.266'	3/14/18	leaf 2	Private gravel road off Yellow Bank
YBR 2018	Tipularia discolor	YB-Td-2	N38° 43.903' W76° 40.318'	10/9/18	leaf 1	Private gravel road off Yellow Bank
YBR 2018	Tipularia		N38° 43.916'		leaf 10	Private property off Yellow Bank
YBR 2018	discolor	YB-Td-3	W76° 40.418'	4/30/18		

Ten Orchids Documented in Calvert Orchids Project

Aplectrum hyemale Adam and Eve: Found in late May and early June. Leaf found in winter and early spring. Found at ACLTS, ACLTN. Kings Landing NRMA-Smoky Road, Biscoe Gray Farm?

Corallorhiza odontorhiza Autumn Coral Root: Found in October. Found in forests and wetlands. Found at Kings Landing-Smoky Road. Only one site.

Cypripedium acaule Moccasin Flower or Lady Slipper: Found late April or early May. Found in forests associated with pine. Found at PF2Bay, Hall Creek NRMA, Kings Landing-Smoky Road.

Galearis spectablis Showy orchid: Found in late April and May. Find in forests. Found at ACLTN, Flag Ponds, PF2Bay.

Goodyera pubescens Downy Rattlesnake Plantain: Found in July and early August. Leaf found in winter and early spring. Found in forests. Found at ACLTN, Flag Ponds, Hall Creek NRMA, Kings Landing-Smoky Road, Ward Farm.

Liparis lillifolia Large Twayblade: Found in May and June. Found in forests. Found at Hall Creek NRMA.

Neottia bifolia Southern Twayblade: Blooms in March, April and May. Found in fens, hummocks, bogs, marshes. Needs full to part sun. Found in Cove Point Quad in April, 2019 by Wayne Longbottom.

Platanthera clavellata Large Club Spur Bog Orchid: Found in September and October. Found at Flag Ponds.

Spiranthes ovalis Lesser Ladies' Tresses: Found in early October. Found in moist woodlands. Found at Flag Ponds. Only one site.

Tipularia discolor Cranefly orchid: Found in late July and early August. Leaf is found in winter and early spring. Found in ACLT N & S, Dunkirk District Park, Flag Ponds, Gatewood Preserve, Hall Creek, Hughes Farm, Kings Landing Park, Kings Landing- Huntingtown NRMA-Smoky Road, Ward Farm and Biscoe Gray. This orchid is so abundant that we are no longer documenting it.

Fourteen Orchids of the Maryland Coastal Plain that Might be seen in Calvert County

Epipactis helleborine Broad Leaved Helleborine: Found in late summer (August/ September) in disturbed areas such as sidewalks, forests and swamps. This is a non-native orchid!
It has been found in Prince George County.

Isotria verticilliata Large Whorled Pogonia: It blooms in May and June. It likes mesic to dry woodlands and bogs and acid soil and disturbed areas. It was seen in Cove Point Quad in 1998 and also in St. Mary's County.

Malaxis unifolia Green Adder's Mouth: Blooms in June and July. Found in bogs, forests, swamps, and woodlands. S2 Found in St Mary's County.

Platanthera blephariglottis White Fringed Bog Orchid; Found late July and August. Found in fens, marshes, and wetlands. S2 Mostly found in Worcester and Wicomico counties, but there was one site in Anne Arundel in 1981.

Platanthera ciliaris Orange Fringed Bog Orchid: Found in July and August. Found in moist meadows, marshes, bogs and woodlands. S2 Seen in Anne Arundel County by Wayne Longbottom in 1991.

Platanthera cristata Crested Orange Bog Orchid: Found in July and early August. Found in moist meadows, marshes and prairies. S3 Mostly found in Worcester and Wicomico counties, but historically found in Anne Arundel and St Mary's counties.

Platanthera flava Northern Tubercled Bog Orchid Palegreen orchid: Found in June and July. Found in moist meadows, floodplains and sunny areas. S2S3 Maryland Biodiversity Project lists it as being in Calvert County. Seen by Kerry Wixted in Anne Arundel County, Bristol Quad, 6-25-2009

Platanthera lacera Ragged Fringed Orchid: Found in late June and early July. Found in wetlands and riverbanks. It is listed in Maryland Biodiversity Project as being in Calvert County, but there is no documentation in the Maryland Plant Atlas. It is found on the coastal plain and throughout Maryland

Pogonia ophioglossoides Rose Pogonia: Found in early June. Found in boggy habitat, riverbanks and swamps. Watch list for state. Found in Prince George, Wicomico and Anne Arundel counties.

Spiranthes cernua Nodding Ladies' Tresses; Found in September and early October. Found in moist fields, woodlands, bogs and marshes. It is listed in the Maryland Biodiversity Project as being in Calvert County. The Maryland Plant Atlas shows one site in Calvert County, but is listed as Bristol Quad September 16,1904.

Spiranthes lacera Slender Ladies' Tresses: Found in August and early September. Found in moist to dry meadows, fields and open woods. Found in Calvert in 1919, but seen in Deale, Anne Arundel County in 2019.

Spiranthes tuberosa Little Ladies' Tresses: Found in late August, blooms later than *S. lacera*. Found in dry to moist prairies, meadows and forests. Listed asS1. Only modern siting was in Upper Marlboro Quad in 1990 by Wayne Longbottom. Very unlikely to be in Calvert, only 3 sitings in Maryland Plant Atlas and 4 in Maryland Biodiversity Project.

Spiranthes vernalis Spring Ladies' Tresses: Found in late June and early July. Found in dry to moist meadows and prairies. Common on Coastal Plain including being found in Calvert County Cove Point by Brent Steury in 1996.

Triphora trianthophoros Three Birds Orchid: Found in August and September. Found in mesic forests and woodlands. Llisted S1. Only found in Queen Anne County. Probably not in Calvert. Flowers for only 1 day.

Supporting Calvert County's nature parks and natural spaces

CALVERT STEWARDS VOLUNTEER PROGRAM

A partnership between Calvert Nature Society and Calvert County Natural Resources Division

2021 Annual Report

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