

Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range

(Revised April 29, 2020) **Please do not edit document.**

Wetland ID: _____

PNDI # (for PA): _____

General Info

Property/Project Name _____

Coordinates _____ Project Type _____

Entity Requesting Phase 1 Survey _____

County/Township/Municipality _____

Lead Surveyor _____ Affiliation _____

Other Assistants Present _____

Date/Condition

Date of Survey _____ Time In _____ Time Out _____ Air Temp. _____ F ° C°

Last Precipitation ___ < 24 hours ___ 1-7 days ___ > 1 week ___ unknown Drought conditions? ___ Yes ___ No ___ Unknown

Drought Index*¹ (Circle): none D0 D1 D2 D3 D4 Wetland Photos Taken ___ Yes ___ No (Provide photo location map)

Notes (e.g., details about drought, flood, abnormally dry, and/or snow/ice conditions, and any other seasonal conditions observed):

Wetland Size _____ acres, if known # Wetlands w/in Project Area² _____

Estimate wetland size (acres) ___ < 0.1 ___ 0.1 - 0.5 ___ 0.5 - 1 ___ 1 - 2 ___ 2 - 4 ___ 5+ ___ 10+

Estimate % Canopy Cover*³ ___ 0% ___ ≤ 5 ___ 6-20 ___ 21-40 ___ 41-60 ___ > 60

Hydrology and Soils (check all that apply): **use additional pages to further discuss pertinent general wetland information**

___ Springs/Seeps ___ Springhouse ___ Trib/Stream ___ Pond ___ Stormwater ___ Iron Bacteria ___ Watercress

___ Water Visible on Surface Evidence of Flooding ___ Yes ___ No If yes, (___ Seasonal Flooding⁴ ___ Routine Flooding⁵)

___ Rivulets (___ inches deep) ___ Subsurface Tunnel/Rivulets ___ Tire Ruts (___ inches deep)

___ Small Puddles/Depressions (___ inches deep) ___ Saturated soils present? If yes, year-round? ___ Likely ___ Unlikely ___ Unk

___ Yes ___ No Are there any signs of disturbance to hydrology (e.g., drainage ditches, tile drainages, berms, culverts, fill material, ponds, roads, beaver activity)?

Wetland Info

Estimate time period (in years) of disturbance*: ___ ≤ 5 ___ 6-10 ___ 11-20 ___ > 20

For ditches that may be present, is there bog turtle habitat? If yes, describe:

¹ (*) Denotes reference to the **Supplemental Information** document that provides more details on this particular question.

² Each wetland must have a separate Phase 1 habitat assessment data form completed.

³ Determine percent cover of abundant species for the wetland, not by wetland type. Abundant species are those that are most prominent in the wetland and have the highest percent of coverage compared to other species.

⁴ Seasonal flooding in wetlands/streams can occur as a result of spring snow melt/heavy rain that increases water levels in these systems.

⁵ Routine flooding refers to tidally-influenced wetland/stream systems or the occurrence of normal rain patterns throughout the year.

Yes No Are there any signs of disturbance to vegetation (e.g., mowing, pasturing, burning)? If yes, describe:

Wetland Info

Rate (scale of 1-4) level of vegetation disturbance* (Circle): 1. Light to moderate grazing or mowing 2. No grazing, mowing, burning observed⁶ 3. Moderate to high grazing or mowing 4. Mowing occurs during bog turtle active season

Soil types present*:

How much suitable habitat is in this wetland? Estimate acreage or percentage: _____

<u>Wetland Type</u>	<u>% of Total Wetland</u>	<u>% of Wetland Type w/Muck</u>	<u>Avg. Muck Depth</u>	<u>Max. Muck Depth</u>
PEM Portion of Wetland:	_____	_____	_____ in.	_____ in.
PSS Portion of Wetland:	_____	_____	_____ in.	_____ in.
PFO Portion of Wetland:	_____	_____	_____ in.	_____ in.
POW/PUB Portion of Wetland:	_____	_____	_____ in.	_____ in.

CIRCLE all vegetation* from list below that is dominant (≥ 20% for each wetland type listed above) and add other species you observe that are not listed in table in the “notes” space provided below or in the extra table cells.

Wetland Type/Vegetation

Alder Spp. <i>Alnus</i> spp.	Common Reed <i>Phragmites australis</i>	Jewelweed <i>Impatiens capensis</i>	Rice Cutgrass <i>Leersia oryzoides</i>	Spicebush <i>Lindera benzoin</i>	Willow spp. <i>Salix</i> spp.
Alder-leaved Buckthorn <i>Rhamnus alnifolia</i>	Dogwood Spp. <i>Cornus</i> spp.	Mile-A-Minute <i>Persicaria perfoliata</i>	Rough-leaved Goldenrod <i>Solidago patula</i>	Spike-Rush <i>Eleocharis palustris</i>	Woolly-fruited Sedge <i>Carex lasiocarpa</i>
American Elm <i>Ulmus americana</i>	Duck Potato <i>Sagittaria latifolia</i>	Multiflora Rose <i>Rosa multiflora</i>	Sensitive Fern <i>Onoclea sensibilis</i>	Swamp Rose <i>Rosa palustris</i>	Woolly Bulrush or Woolgrass <i>Scirpus cyperinus</i>
Arrowhead <i>Sagittaria latifolia</i>	Eastern Red Cedar <i>Juniperus virginiana</i>	Poison Sumac <i>Toxicodendron vernix</i>	Shrubby Cinquefoil <i>Dasiphora fruticosa</i>	Sweetflag <i>Acorus calamus</i>	Yellow-Green Sedge <i>Cyperus esculentus</i>
Carpetgrass <i>Axonopus fissifolius</i>	Eastern Tamarack <i>Larix laricina</i>	Porcupine Sedge <i>Carex hystericina</i>	Skunk Cabbage <i>Symplocarpus foetidus</i>	Tearthumb Spp. <i>Polygonum</i> spp.	
Cattail <i>Typha</i> spp.	Grass-of-Parnassus <i>Parnassia glauca</i>	Purple Loosestrife <i>Lythrum salicaria</i>	Smooth Sawgrass <i>Cladium mariscoides</i>	Tussock Sedge <i>Carex stricta</i>	
Cinnamon Fern <i>Osmundastrum cinnamomeum</i>	Inland sedge <i>Carex interior</i>	Red Maple <i>Acer rubrum</i>	Soft Rush or Common Rush <i>Juncus effusus</i>	Viburnum Spp. <i>Viburnum</i> spp.	
Common Boneset <i>Eupatorium perfoliatum</i>	Japanese Stiltgrass <i>Microstegium vimineum</i>	Reed Canary Grass <i>Phalaris arundinacea</i>	Sphagnum Moss <i>Sphagnum</i> spp.	White turtlehead <i>Chelone glabra</i>	

Notes on additional plant species (e.g., sedge, rush, grass, shrub, tree species):

⁶ No grazing, mowing, or burning is given a “2” rank as this is considered more harmful to bog turtle wetlands than Rank 1 (light to moderate grazing or mowing). Light to moderate habitat management is beneficial to suppressing succession of native and non-native plant species.

Describe surrounding landscape (e.g., wetlands, forest, subdivision, agricultural field, fallow field, etc.):

Landscape Info

How much of this wetland is located **off-site** (i.e., outside the property boundaries or right-of-way)?

- None of it – the entire wetland is within the property boundaries
- Some of it – _____ Acres or _____% of the wetland appears to be located off-site

If part of this wetland continues off-site, how much of the **off-site portion** was surveyed (on foot)?

- None of it
- All of it
- Part of it (_____ acres or _____% of the off-site portion)

Is there potential bog turtle habitat **within 300 feet***? Yes No Unk Habitat **off-site**? Yes No Unk

If yes, how did you conclude this?

Species

Were any bog turtles observed? Yes No If yes, how many? _____
Other herps observed? Yes No If yes, which ones?

*Note that you must be permitted by the state you are conducting the survey in to handle bog turtles.

*Report bog turtle observations to your local FWS Field Office and state wildlife office within 48 hrs.

- Yes No Unsure The **hydrology** criterion for bog turtle habitat is met.
- Yes No Unsure The **soils** criterion for bog turtle habitat is met.
- Yes No Unsure The **vegetation** criterion for bog turtle habitat is met.
- Yes No Unsure This wetland **HAS** potential bog turtle habitat (fair to good quality).
- Yes No Unsure This wetland **HAS** potential bog turtle habitat (low to very low quality).
- This wetland does **NOT** have potential bog turtle habitat. **UNSURE** if suitable habitat is present.

Lead Surveyor Opinion

Notes (How did you reach this opinion?):

Lead Surveyor – please sign below certifying to the best of your knowledge that all of the information provided herein is accurate and complete.

Print Name _____ Signature _____

Date _____

Contact Information _____

****Important**** Please include all Phase 1 data forms in a final Phase 1 bog turtle habitat assessment report (see Attachment 3 in *Guidelines for Bog Turtle Surveys* for checklist) and submit to your local state wildlife agency and U.S. Fish and Wildlife Service Field Office (see Attachment 1 in *Guidelines for Bog Turtle Surveys*).

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Additional space for notes, color photos, or maps/sketch of wetland (or attach printed map with each wetland type carefully outlined; include all wetland types [PEM, PSS, PFO, POW/PUB], streams/ditches, north arrow, property/project borders, and areas of core bog turtle habitat. Include **color photos** for each wetland assessed and separate Phase 1 data forms for each when submitting to agencies, as well as any reptile and amphibian species you encounter, if possible.