Timber Rattlesnake (*Crotalus horridus*) Habitat Assessment

Stargazer Renewable Development

Hamlin, Norwich, and Sergeant Townships: McKean County Pennsylvania

SIR **61250**

Prepared for:

Civil & Environmental Consultants, Inc.
700 Cherrington Parkway
Moon Township, PA 15108

Representing

RWE Clean Energy Development, LLC
701 Brazos Street, Suite 1400
Austin, Texas 78701

Prepared by:

Glenn Johnson, Ph.D.
Riveredge Environmental, Inc.
Riveredge Associates, LLC.
58 Old River Rd.
Massena, New York 13662

July 2025

10 July 2025

Mr. Christopher A. Urban, Chief
Natural Diversity Section
Pennsylvania Fish & Boat Commission
450 Robinson Lane
Bellefonte, PA 16823-9620

RE: Investigation and Evaluation of Potential Timber Rattlesnake Habitat at the proposed Stargazer Renewable Development, Hamlin, Norwich, and Sergeant Townships: McKean County Pennsylvania, SIR # 61250.

Dear Mr. Urban:

I am pleased to submit to the Pennsylvania Fish and Boat Commission (PFBC) this report summarizing the purpose, background, methods and results of a timber rattlesnake (*Crotalus horridus*) habitat assessment conducted for the proposed Stargazer Renewable Development Project (hereafter referred to as "Investigation Area"). The Investigation Area is located within Hamlin, Norwich, and Sergeant Townships in McKean County, Pennsylvania (Fig. 1). The Investigation Area was visited on 29 and 30 June and 1 July, 2025.

PURPOSE

The site visit was conducted to investigate and evaluate the Investigation Area as potentially suitable timber rattlesnake habitat as requested by Gretchen Addington, Civil and Environmental Consultants, Inc. (CEC) on behalf of RWE Clean Energy Development, LLC (RWE). The primary purpose of this site visit was to evaluate the Investigation Area to determine whether the topography, vegetative structure, rock features and other habitat parameters represent suitable habitat for the timber rattlesnake.

BACKGROUND

RWE Clean Energy Development, LLC is proposing development of rural, forested acreage for solar energy production and battery storage (Project, Fig.1). The Investigation Area is shown on the Sheet Index (Fig. 2) and the Resource Location Map (Fig. 2A through Fig. 2C depicting Sheets 1 – 3). The Investigation Area appears on the Hazel Hurst and Crosby PA 7.5-minute USGS

quadrangles and occurs in the Bloomster Hollow, Browns Mill Hollow, Shelander Hollow, Shingle Mill Hollow, Wernwag Hollow, Jet Brook, Martin Run, Red Mill Brook, Robbins Brook, and Warner Brook watersheds (Fig. 1).

The timber rattlesnake is legally protected as a reptile species of concern within the Commonwealth of Pennsylvania. Specific information documenting the presence of the timber rattlesnake in or around the Project Area is not available. In their comments in the Species Impact Review Receipt for this project (PNDI Search No. 835709_1), sent 18 April 2024, PFBC maintained the Investigation Area is within "the proximity to known critical Timber Rattlesnake habitat" and requested that a habitat assessment be conducted by a qualified timber rattlesnake surveyor.

The timber rattlesnake's range generally occurs in a broad band across central to eastern Pennsylvania and is absent along the extreme western edge and southeastern corner of the state (Hulse, et al. 2001). The range closely corresponds to the major mountain ranges that diagonally cross the state. Mean seasonal activity ranges in Pennsylvania have been estimated at 160 acres for male snakes and 42 acres for both gravid and non-gravid female snakes. Male rattlesnakes make the greatest movements during the active season and mean maximum migratory distances from den sites are reported as 4.07 km (2.5 miles) (Brown 1993). Gravid females make small movements and may remain at the den site or in open, rocky, habitat nearby (Zappalorti et al. 1998).

In northern states, timber rattlesnakes spend nearly half of the year hibernating underground in dens. Emergence and ingress dates vary year to year, but emergence typically occurs from late March to mid-April in Pennsylvania when daytime temperatures approach 60^0 F. Ingress typically occurs in early to late October as maximum daily temperatures decrease below 60^0 F (Brown 1992, Martin 1992). Gravid females may also return to the den to give birth in late summer.

Timber rattlesnake habitat can generally be divided into four components: 1) the rookery site, typically inhabited by gravid females only, but may be utilized by any segment of the population

with low frequency, 2) the overwintering habitat or den site, 3) foraging habitat, and 4) transient habitat which includes basking habitat.

Gestation Habitat – Gestation habitat (or rookery site) is characterized as a rocky area with few canopy trees, a grassy knoll, or an open shrubby area with medium to large flat rocks with fissures or openings that provide cover (Brown, 1993). Good gestation habitat receives 6 to 8 hours of direct sunlight a day, such as sand/gravel roads, railroad beds, open rocky outcroppings and utility ROWs (Zappalorti et al., 1998). Gestation habitat is commonly associated with den site areas but may occur anywhere within the snakes' travel corridor between summer foraging areas. More commonly, gestation habitat is located within 600 feet of the winter den in an area with open canopy, exposed clearing, and shelter rocks (Brown, 1992). In mountainous terrain, gestation habitat is generally found on slopes with a southeastern to southwestern aspect.

Den – A hibernaculum, or den site, is typically located in a steep rocky area where underground crevices provide retreats below the frost line, at least 3 to 5 feet below the ground (Brown, 1993). Martin (1992) describes three den types in mountainous regions: 1) fissures in ledges, 2) talus (below a cliff) or open scree (rock not associated with a cliff), and 3) fallen rock partly covered in soil. Dens are typically found on well-drained slopes with a southeastern to southwestern aspect and have a relatively open overstory and understory canopy closure (Galligan and Dunson, 1979). Timber rattlesnake populations may reuse the same wintering den site for generations.

Foraging – Foraging habitat is used by adult male and nongravid female timber rattlesnakes and is primarily determined by the presence of the timber rattlesnake's principal prey items. In the northern ranges, these areas typically consist of deciduous or mixed deciduous-coniferous forests with canopy closures averaging between 60 and 75 percent (Reinert 1984a, 1984b; Brown, 1993). Preferred prey includes chipmunks (*Tamias striatus*) followed by white-footed mice (*Peromyscus* sp.) in the northeast, but other small mammals are also consumed (Ernst and Ernst 2003).

Transient – Transient habitat includes areas the snakes utilize to travel or migrate to their preferred summer foraging habitat locations. This habitat is distinct from the den or rookery sites but may

be similar to foraging habitat and may contain stopover basking sites with exposed rock and reduced forest canopy cover (Brown, 1993).

METHODS

Prior to the site visitation, I examined available aerial photographs and topographical maps to orient to the site and develop a field plan. During the survey visit, the Investigation Area was walked, and significant habitat features were noted, photographed, and locations were recorded with a GPS receiver. Survey efforts were concentrated on locating areas identified during the pre-field activities and thoroughly searching those areas for characteristics of typical gestation and den habitat, as well as basking and foraging areas for the timber rattlesnake. Areas of potential timber rattlesnake habitat were characterized by their overall size, rock formations, aspect, and canopy cover. Each potential gestation and den site/area were thoroughly characterized according to their suitability.

FIELD INVESTIGATION AND RESULTS

Field Investigations – 29 and 30 June and 1 July 2025

On 29 June 2025, at 1000 hours, Dr. Glenn Johnson, Professor of Biology at SUNY Potsdam arrived near the Investigation Area and met with Dylan Lutz from CEC to orient to the Investigation Area and access roads and develop a field plan. To complete the assessment of the Investigation Area, Dr. Johnson and Mr. Lutz continued field investigations on 30 June and 1 July 2025.

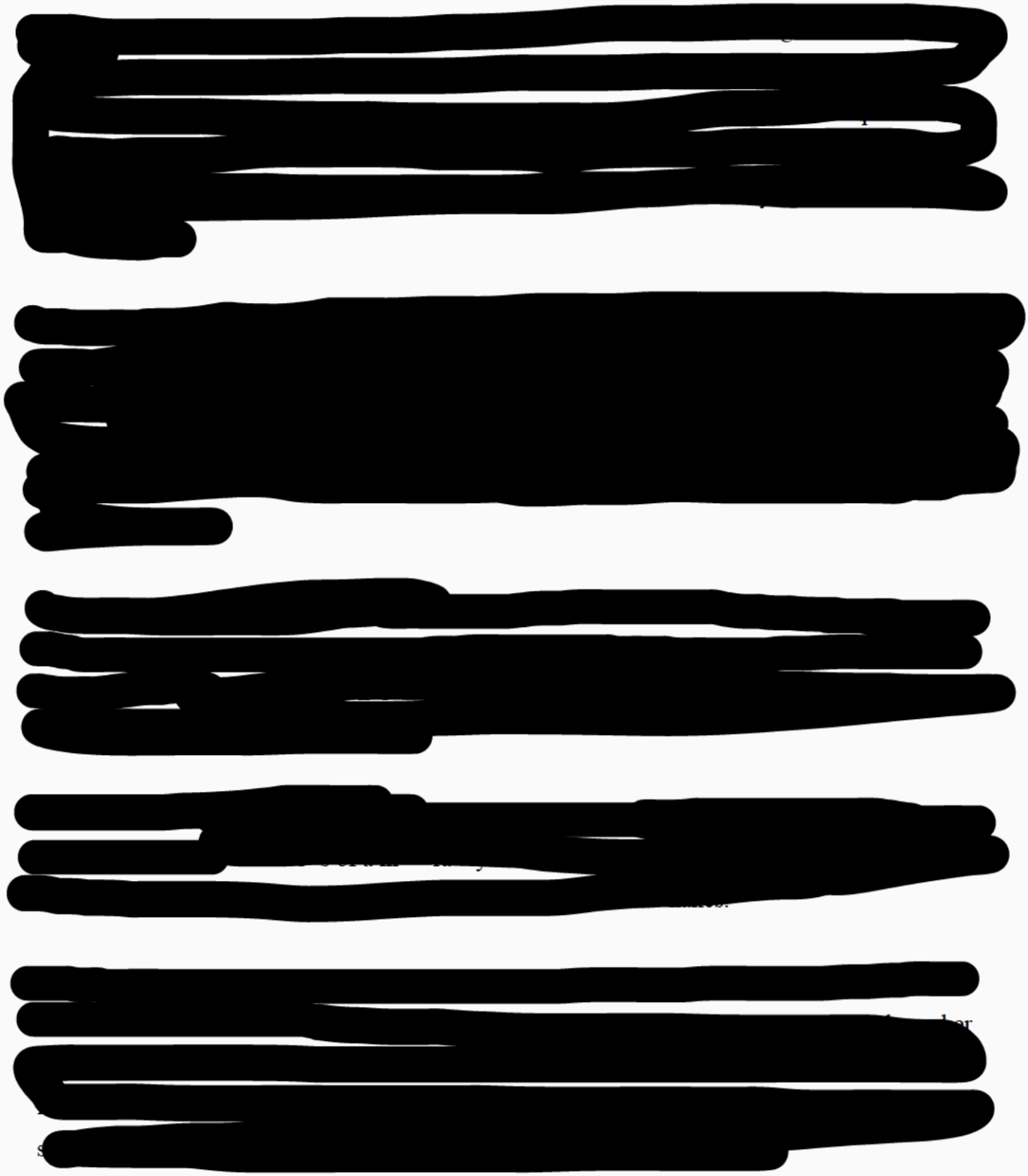
Table 1. Weather Conditions on the Investigation Area during the 2025 Habitat Assessment.

Date	Time	Air Temperature (° F) Shade	% Cloud Cover	Wind Speed (m/sec)
29 June	1130	71.0	5	0.1
29 June	1330	80.2	5	0.2
29 June	1600	80.4	0	0.2
30 June	0830	75.2	80	0.0
30 June	1000	80.1	90	0.1
30 June	1320	83.7	100	0.2
30 June	1630	81.4	100	0.0
1 July	0900	73.0	20	0.0
1 July	1230	79.0	30	0.0

The Investigation Area does not contain any mountain ridges identified on USGS topographic mapping due to its location within Pennsylvania's Allegheny Plateau region. Therefore, there are not a significant number of exposed rock features and outcroppings present that support den and gestation habitat. Four locations identified within the Investigation Area containing potentially occupied timber rattlesnake critical habitat (PH sites) are described below and in the Assessment Forms (Appendix 2). Elevations range from approximately 1,700 feet above sea level in the valleys to 2,300 feet above sea level at the highest point of the Investigation Area.

The majority of the Investigation Area is comprised of previously logged forested areas that are in various stages of regenerative growth, with little to no surface rock present. While these areas may support foraging habitat, very few significant den or critical habitat features were observed. The Investigation Area is dominated by early to mid-successional forest and the forest composition consists primarily of black birch (*Betula lenta*), yellow birch (*Betula alleghaniensis*), red maple (*Acer rubrum*), and black cherry (*Prunus serotina*), with lesser amounts of sugar maple (*Acer saccharum*), eastern hemlock (*Tsuga canadensis*) and American beech (*Fagus grandifolia*) also present. The understory consists primarily of saplings of the above-mentioned trees. The herbaceous stratum is dominated in many portions of the Investigation Area by assorted fern species such as New York fern (*Parathelypteris noveboracensis*), bracken fern (*Pteridium aquilinum*), intermediate wood fern (*Dryopteris intermedia*) and eastern hay-scented fern

(*Dennstaedtia punctilobula*) (Fig. 2). Details of plant community composition and structure are given in Appendix 2.



One eastern garter snake (*Thamnophis sirtalis*), multiple green frogs (*Lithobates clamitans*), multiple eastern newt adults and larvae (*Notophthalmus viridescens*), and multiple American toad adults and tadpoles (*Anaxyrus americanus*) were observed within the Investigation Area on 29 and 30 June; no other amphibians or reptiles were observed or detected during the site visits to the Investigation Area.

Table 2. Type, area, coordinates (decimal-degrees, NAD 83), slope, aspect and Photo Log number for Potentially occupied Habitats (PH) on the Investigation Area.

Site ID	Potential Habitat Type	Acres	Latitude	Longitude	Slope (degrees), Aspect	Photo Number
[redacted]						

CONCLUSION

In conclusion, it is the opinion of the author that all four (4) PH sites provide either den or gestation habitat elements for timber rattlesnakes and that they vary in quantity and quality. Most of the remainder of the Investigation Area, while possibly providing foraging, transient and limited basking opportunity, generally does not support critical timber rattlesnake habitat.

Sincerely,

[redacted]

Dr. Glenn Johnson

REFERENCES

Brown, W.S. 1992. Emergence, ingress, and seasonal captures at dens of northern timber rattlesnakes (*Crotalus horridus*). Pages 251-258 In J.A. Campbell and E.D.Brodie Jr., Eds. Biology of the pit vipers. Selva Press. Tyler, Texas.

Brown, W.S. 1993. Biology, Status, and Management of the Timber Rattlesnake (*Crotalus horridus*): A Guide for Conservation. Soc. Study Amphibians and Reptiles, Herpetological Circ. 22, 78 p.

Ernst C. H. and E.M. Ernst. 2003. Snakes of the United States and Canada. Smithsonian Institution, Wash. D.C. 668 p.

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Hulse, A.C., C.J. McCoy and E. Censky. 2001. Amphibians and reptiles of Pennsylvania and the Northeast. Cornell Univ. Press, Ithaca, New York. 419 p.

Martin, W.H. 1992. Phenology of the timber rattlesnake (*Crotalus horridus*) in an unglaciated section of the Appalachian Mountains. Pp. 259-277 in J.A. Campbell and E.D. Brodie Jr., eds. Biology of the pit vipers. Selva Press, Tyler, Texas.

Reinert, H.K. 1984a. Habitat separation between sympatric snake populations. Ecology 65:478-486.

Reinert, H.K. 1984b. Habitat variation within sympatric snake populations. Ecology 65:1673-1682.

Zappalorti, R.T., Torocco, M.E., Stechert, R. 1998. The Timber Rattlesnake (*Crotalus horridus*) in New Jersey. Draft Conservation Recovery Plan. Herpetological Associates, Inc.

NORTH

SCALE IN FEET
0 2,500 5,000

LEGEND

INVESTIGATION AREA

REFERENCES

1.USGS TOPOGRAPHIC MAP/ ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE>COM/MAPS/USA_TOPO_MAPS. ACCESSED 4/24/2024

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STARGAZER TIMBER RATTLESNAKE HABITAT ASSESSMENT
NORWICH AND SERGEANT TOWNSHIPS
MCKEAN COUNTY, PENNSYLVANIA

SITE LOCATION MAP

DRAWN BY:	SML	CHECKED BY:	DL	APPROVED BY:	GAA*	FIGURE NO:	1
DATE:	7/7/2025	SCALE:	1" =2,500'	PROJECT NO:	341-203		

*Hand Signature on file

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NORTH

SCALE IN FEET
0 3,000 6,000

LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- POTENTIAL DENNING HABITAT
- POTENTIAL GESTATING HABITAT

REFERENCES

1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY, ACCESSED 7/9/2025, IMAGERY DATE: 2024.

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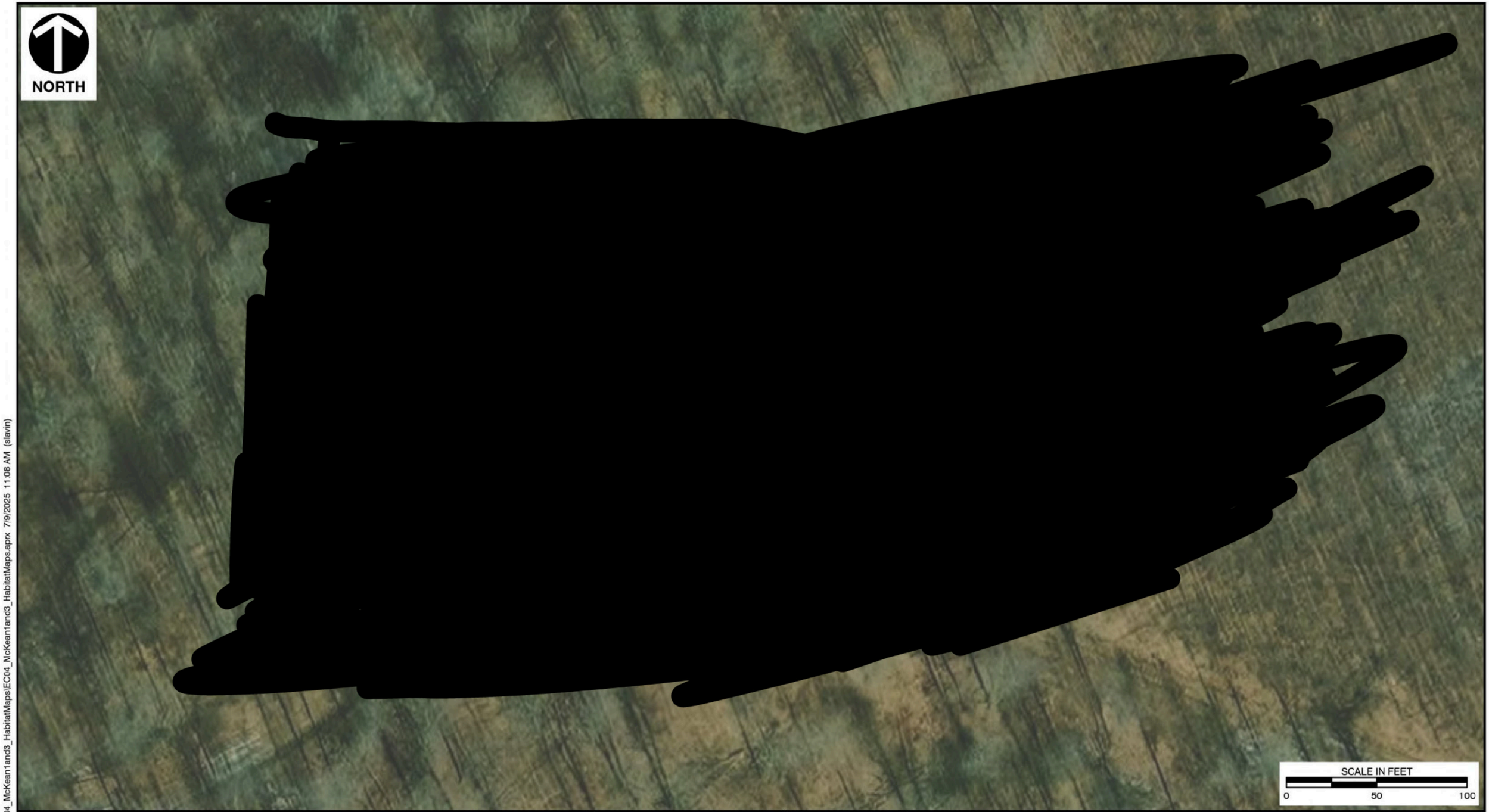
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MCKEAN COUNTY, PENNSYLVANIA

TIMBER RATTLESNAKE HABITAT MAP - OVERVIEW

DRAWN BY:	SML	CHECKED BY:	DL	APPROVED BY:	GAA*	FIGURE NO:	2
DATE:	7/9/2025	SCALE:	1" =2,500'	PROJECT NO:	341-203		

*Hand Signature on file

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LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- POTENTIAL DENNING HABITAT
- POTENTIAL GESTATING HABITAT

REFERENCES

1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY, ACCESSED 7/9/2025, IMAGERY DATE: 2024.

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TIMBER RATTLESNAKE HABITAT MAP - PH-D1 & PH-G1

DRAWN BY:	SML	CHECKED BY:	DL	APPROVED BY:	GAA*	FIGURE NO:	2A
DATE:	7/9/2025	SCALE:	1" =50'	PROJECT NO:	341-203		

*Hand Signature on file

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LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- POTENTIAL DENNING HABITAT
- POTENTIAL GESTATING HABITAT

REFERENCES

1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY, ACCESSED 7/9/2025, IMAGERY DATE: 2024.

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MCKEAN COUNTY, PENNSYLVANIA

TIMBER RATTLESNAKE HABITAT MAP - PH-G2

DRAWN BY:	SML	CHECKED BY:	DL	APPROVED BY:	GAA*	FIGURE NO:	2B
DATE:	7/9/2025	SCALE:	1" =30'	PROJECT NO:	341-203		

*Hand Signature on file

[redacted]

LEGEND

- PHOTO LOCATION
- INVESTIGATION AREA
- POTENTIAL DENNING HABITAT
- POTENTIAL GESTATING HABITAT

REFERENCES

1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY, ACCESSED 7/9/2025, IMAGERY DATE: 2024.

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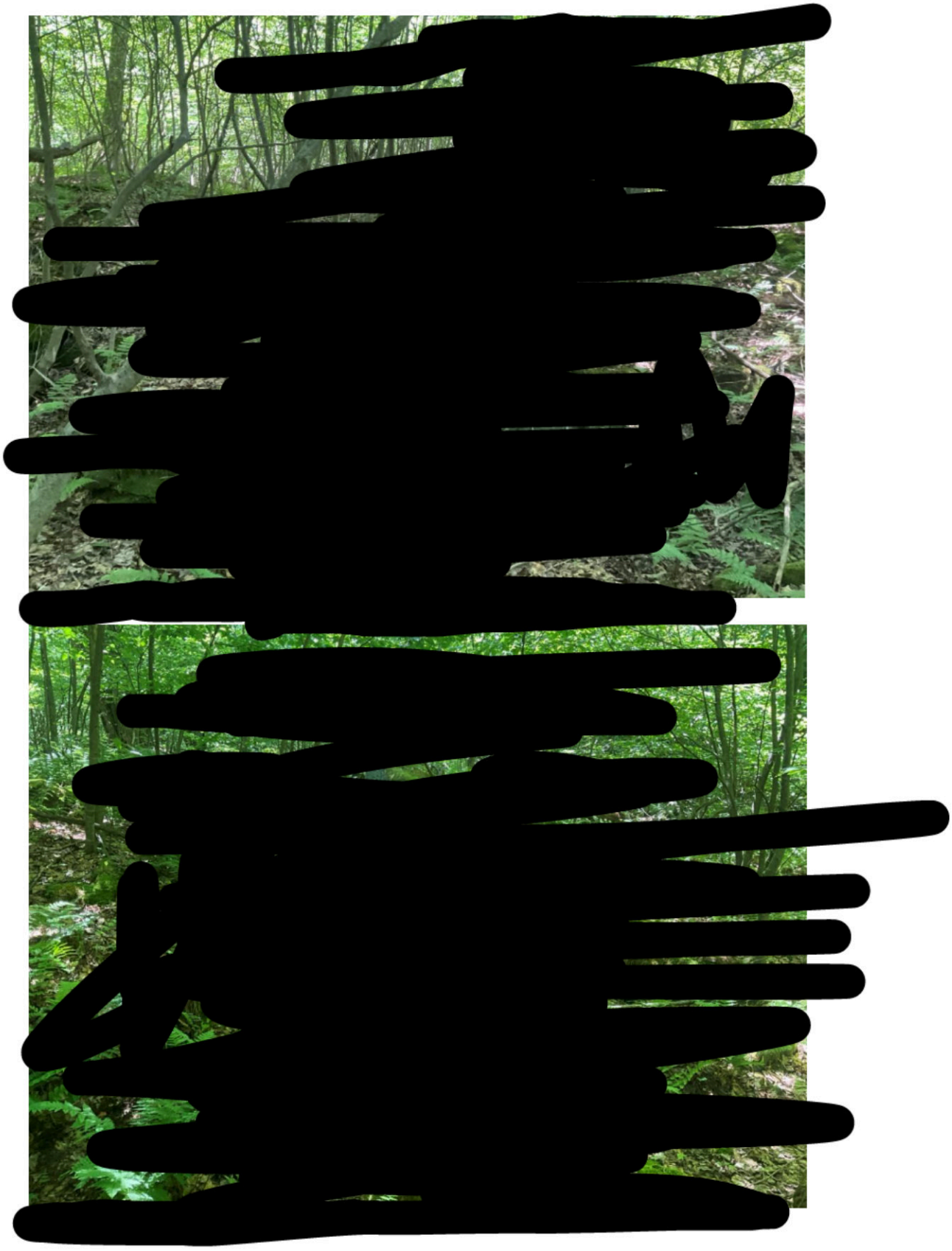
TIMBER RATTLESNAKE HABITAT MAP - PH-G3

DRAWN BY:	SML	CHECKED BY:	DL	APPROVED BY:	GAA*	FIGURE NO:	2C
DATE:	7/9/2025	SCALE:	1" = 100'	PROJECT NO:	341-203		

*Hand Signature on file

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Appendix 1. Photolog







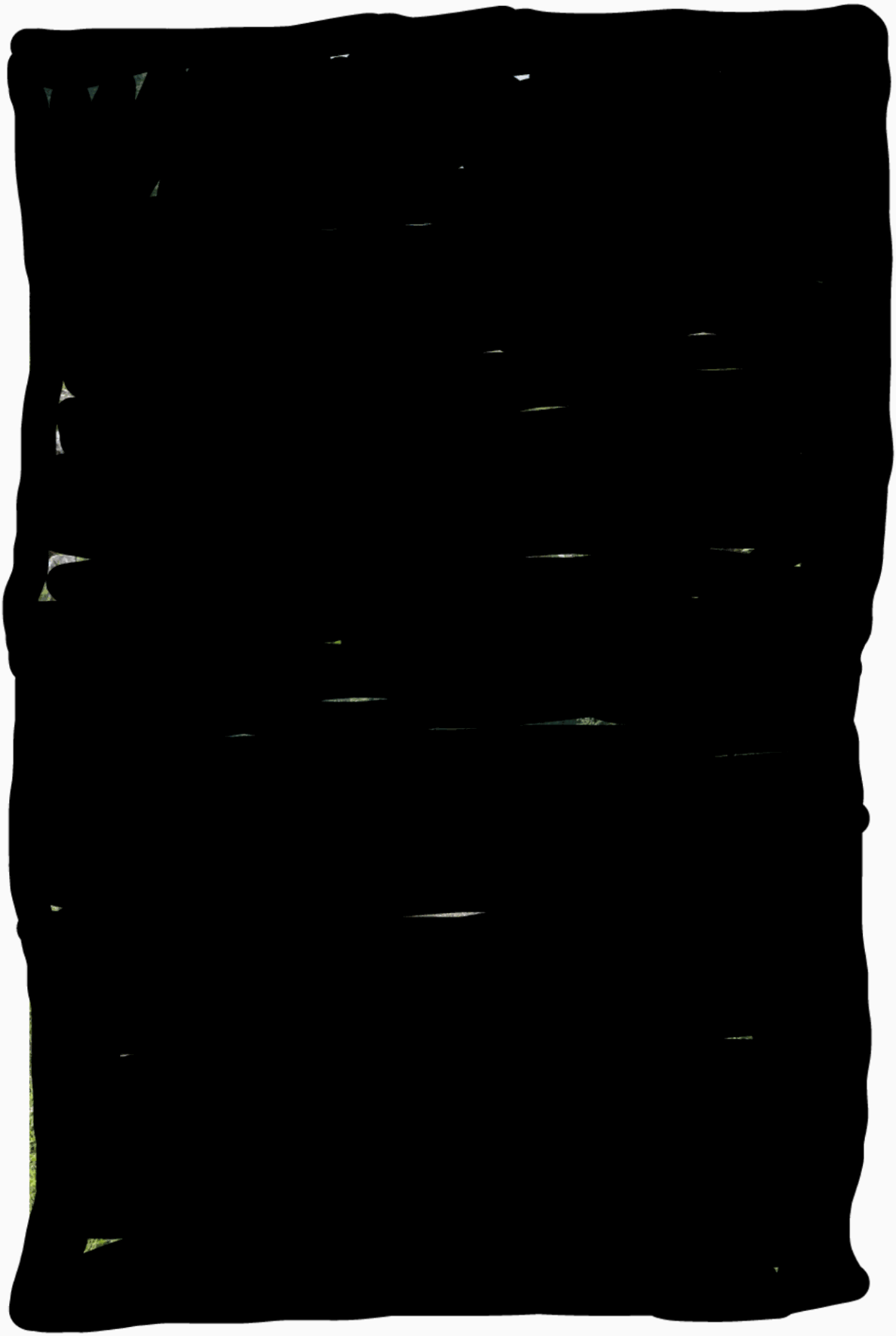




Photo 9. Overview (N) of Investigation Area. Photo 29 June 2025.



Photo 10. Overview (S) of Investigation Area. Photo 29 June 2025.



Photo 11. Overview (NE) of Investigation Area. Photo 30 June 2025.



Photo 12. Overview (NE) of Investigation Area. Photo 30 June 2025.



Photo 13. Overview (E) of Investigation Area. Photo 1 July 2025.



Photo 14. Overview (SE) of gas line ROW within Investigation Area. Photo 1 July 2025.

Appendix 2

Timber Rattlesnake Habitat Assessment Field Forms

PENNSYLVANIA FISH & BOAT COMMISSION Division of Environmental Services--Natural Diversity Section
450 Robinson Lane
Bellefonte, PA 16823-9620

Timber Rattlesnake Habitat Assessment Form (revised 02/11/10)

Project Information

Project/Property Name: Stargazer Renewable Development SIR# 61250

Project Type/Description: Solar Development

[redacted]

Applicant/Landowner Name: RWE Clean Energy Development

County: McKean Quad: Hazel Hurst Township/Municipality: Sergeant

* Attach a copy of topographic map and a site sketch showing survey site and natural features identified.

Assessment Site Information [Areas within and at least 300 feet around the entire project area need to be assessed.]

Date [redacted]

Site ID** [redacted]

Latitude [redacted]

** The surveyor should use his/her judgement on the size of the area that a single assessment encompasses. **Additional assessment forms should be used to accurately describe and evaluate large contiguous areas by utilizing a separate form for separate habitat areas within the project boundaries. Each separate area assessed should be assigned a Site ID name that is referenced to the overall site sketch.**

Weather Conditions (Note: Assessment cannot be conduct[redacted]

Habitat Description

General description: [redacted]

Level of [redacted]nce (roads, homes, buildings, utility right-of-ways, etc.):

[redacted]

Aspect — (compass orientation, i.e., direction hillside faces)

Ground Cover:

% rocky ground cover: [redacted]

% rocky ground cover that receives direct sunligh[redacted]

Project Name Stargazer Renewable Development ***Site ID #*** PH-D1 ***(con't)***

Vegetative Composition:

[redacted]

Dominant species present in and surrounding the described habitat:

Trees: [redacted]

Shrubs: [redacted]

Other plant species of note: _____

Species Observations

Were herpetofauna species or their signs (e.g., sheds, scat, "forms") observed on-site (include timber rattlesnake observations)? If so, what species and how many?

[redacted]

Additional Comments/Observations: (use additional sheets if necessary)

[redacted]

INVESTIGATOR'S OPINION

In your opinion, is there timber rattlesnake critical habitat? [redacted]

If Yes, what timber rattlesnake critical habitat occurs in this area? See below.

[redacted]

I certify that to the best of my knowledge, all of the information provided herein is accurate and complete.

Glenn Johnson [redacted] 29 June 2025

Investigator's Name (print) **Investigator's Signature** **Date**

Reporting. The following items need to be submitted for review:

(1) Timber rattlesnake habitat assessment form.
(2) A project narrative/description, exact project location, equipment to be used in earth moving activities
(3) Color photographs of surveyed area showing: general panorama, rocky areas, and specimens observed.
(4) Site sketch showing the location and direction of photos taken.
(5) Topographic map showing location of area surveyed, the identified potential habitat delineated, the proposed project and associated boundaries.

Please mail these items to:

Natural Diversity Section
PA Fish & Boat Commission
450 Robinson Lane
Bellefonte, PA 16823

PENNSYLVANIA FISH & BOAT COMMISSION Division of Environmental Services--Natural Diversity Section
450 Robinson Lane
Bellefonte, PA 16823-9620

Timber Rattlesnake Habitat Assessment Form (revised 02/11/10)

Project Information

Project/Property Name: Stargazer Renewable Development SIR# 61250

Project Type/Description: Solar Development

Project Size* (acreage): 5,346 acres

Applicant/Landowner Name: RWE Clean Energy Development

County: McKean Quad: Hazel Hurst Township/Municipality: Sergeant

* Attach a copy of topographic map and a site sketch showing survey site and natural features identified.

Assessment Site Information [Areas within and at least 300 feet around the entire project area need to be assessed.]

Date: 29 June 2025 Time: 1130

Site ID [redacted]

** The surveyor should use his/her judgement on the size of the area that a single assessment encompasses. **Additional assessment forms should be used to accurately describe and evaluate large contiguous areas by utilizing a separate form for separate habitat areas within the project boundaries. Each separate area assessed should be assigned a Site ID name that is referenced to the overall site sketch.**

Weather Conditions (Note: Assessment cannot be conducted in snow cover.)

Air temperature (°[redacted]

Habitat Description

General description: [redacted]

Level of remoteness/nearby disturbance (roads, homes, buildings, utility right-of-ways, etc.): [redacted]

Topogra[redacted]

Aspect [redacted] (compass orientation, i.e., direction hillside faces)

Ground [redacted]

% rocky [redacted]

% rocky [redacted]

[redacted]

Are there rock outcrops or ledges present? _____

Are boulder fields, and/or talus/scree slopes present? _____

Are flat gestation slabs present? [redacted]

Project Name Stargazer Renewable Development *Site ID #* PH-G1 *(con't)*

Vegetative Composition:

% Tree Canopy Cover [redacted]

Dominant species present in and [redacted]

Trees: [redacted]

Shrubs: [redacted]

Other plant species of not [redacted]

Species Observations

Were herpetofauna species or their signs (e.g., sheds, scat, "forms") observed on-site (include timber rattlesnake observations)? If so, what species and how many?

[redacted]

Additional Comments/Observations: (use additional sheets if necessary)

[redacted]

INVESTIGATOR'S OPINION

In your opinion, is there timber rattle [redacted]

If Yes, what timber rattlesnake critical [redacted] See below.

[redacted]

I certify that to the best of my knowledge, all of the information provided herein is accurate and complete.

Glenn Johnson [redacted] 29 June 2025

Investigator's Name (print) **Investigator's Signature** **Date**

Reporting. The following items need to be submitted for review:

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Bellefonte, PA 16823

PENNSYLVANIA FISH & BOAT COMMISSION Division of Environmental Services--Natural Diversity Section
450 Robinson Lane
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Timber Rattlesnake Habitat Assessment Form (revised 02/11/10)

Project Information

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Project Type/Description: Solar Development

Project Size* (acreage): 5,346 acres

Applicant/Landowner Name: RWE Clean Energy Development

County: McKean Quad: Hazel Hurst Township/Municipality: Sergeant

* Attach a copy of topographic map and a site sketch showing survey site and natural features identified.

Assessment Site Information [Areas within and at least 300 feet around the entire project area need to be assessed.]

Date: 29 June 2025 Time: 2:30

[redacted]

** The surveyor should use his/her judgement on the size of the area that a single assessment encompasses. **Additional assessment forms should be used to accurately describe and evaluate large contiguous areas by utilizing a separate form for separate habitat areas within the project boundaries. Each separate area assessed should be assigned a Site ID name that is referenced to the overall site sketch.**

Weather Conditions (Note: Assess

Air temperature (°F) [redacted]

Habitat Description

General descri[redacted]

Level of remoteness/ne[redacted] roads, homes, buildings, utility right-of-

Topographical descripti[redacted]

s) [redacted]

(compass orientation, i.e., direction hillside faces)

Ground Cover:

% rocky ground cove[redacted]

% rocky ground cover that receives direct sun[redacted]

List size range and shape of rocks (round, flat, etc.)[redacted]

Are there rock outcrops or ledges present?[redacted]

Are boulder fields, and/or talus/scree slopes pres[redacted]

Are flat gestation slabs present? [redacted]

Project Name Stargazer Renewable Development *Site ID #* PH-G2 *(con't)*

Vegetative Composition:

% Tree Canopy Cover [redacted]

Dominant species present [redacted]

Species Observations

Were herpetofauna species or their signs (e.g., sheds, scat, "forms") observed on-site (include timber rattlesnake observations)? If so, what species [redacted]

Additional Comments/Observations: (use additional sheets if necessary) [redacted]

INVESTIGATOR'S OPINION

In your opinion, is there timber rattlesnake [redacted]

If Yes, what timber rattlesnake critical habitat [redacted]

Hibernaculum/Den
Gestation/Birthing

I certify that to the best of my knowledge, all of the information provided herein is accurate and complete.

Glenn Johnson [redacted] 29 June 2025

Investigator's Name (print) **Investigator's Signature** **Date**

Reporting. The following items need to be submitted for review:

(1) Timber rattlesnake habitat assessment form.
(2) A project narrative/description, exact project location, equipment to be used in earth moving activities
(3) Color photographs of surveyed area showing: general panorama, rocky areas, and specimens observed.
(4) Site sketch showing the location and direction of photos taken.
(5) Topographic map showing location of area surveyed, the identified potential habitat delineated, the proposed project and associated boundaries.

Please mail these items to:

Natural Diversity Section
PA Fish & Boat Commission
450 Robinson Lane
Bellefonte, PA 16823

PENNSYLVANIA FISH & BOAT COMMISSION Division of Environmental Services--Natural Diversity Section
450 Robinson Lane
Bellefonte, PA 16823-9620

Timber Rattlesnake Habitat Assessment Form (revised 02/11/10)

Project Information

Project/Property Name: Stargazer Renewable Development SIR# 61250

Project Type/Description: Solar Development

Project Size* (acreage): 5,346 acres

Applicant/Landowner Name: RWE Clean Energy Development

County: McKean Quad: Hazel Hurst Township/Municipality: Sergeant and Hamlin

* Attach a copy of topographic map and a site sketch showing survey site and natural features identified.

Assessment Site Information [Areas within and at least 300 feet around the entire project area need to be assessed.]

[redacted]

** The surveyor should use his/her judgement on the size of the area that a single assessment encompasses. **Additional assessment forms should be used to accurately describe and evaluate large contiguous areas by utilizing a separate form for separate habitat areas within the project boundaries. Each separate area assessed should be assigned a Site ID name that is referenced to the overall site sketch.**

Weather Conditions (Note: Assessment cannot b
Air temperat

Habitat Desc
General desc

Level of remoten ads, homes, buildings, ght-of-ways, etc.):

Topographical de

pass orientation, i.e., direction hillside faces)

Ground Cover:

% rocky ground cover that receiv

Project Name Stargazer Renewable Development *Site ID #* PH-G3 *(con't)*

[redacted]

Dominant species present in and surrounding the described habitat:

[redacted]

Species Observations:

Were herpetofauna species or their signs (e.g., sheds, scat, "forms") observed on-site (include timber rattlesnake observations)? If so, what species and how many?

[redacted]

Additional Comments/Observations: (use additional sheets if necessary)

[redacted]

INVESTIGATOR'S OPINION

[redacted]

I certify that to the best of my knowledge, all of the information provided herein is accurate and complete.

Glenn Johnson [redacted] 30 June 2025

Investigator's Name (print) **Investigator's Signature** **Date**

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