Timber Rattlesnake (*Crotalus horridus*) Habitat Assessment

Stargazer Renewable Development

Keating, Hamlin, Norwich, and Sergeant Townships: MCKEAN County
Pennsylvania



Prepared for:

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Representing

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Prepared by:



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July 2026

8 July 2026

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, Keating Hamlin, Norwich, and Sergeant Townships: McKean County Pennsylvania, [redacted]

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 Keating, 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 (61250) and 2 and 3 April and 14 May 2026 (61251).

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 the development of rural forested acreage for solar energy production and battery storage project (Fig.1). The Investigation Area is shown on the Resource Location Map Overview (Fig. 2) and the individual Resource Location Maps (Fig.

2A through Fig. 2I). The Investigation Area appears on the Smethport, Hazel Hurst and Crosby PA 7.5-minute USGS quadrangles and occurs in the Upper Alleghany, Marvin Creek, Potato Creek Outlet, 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).

Please note that [redacted] was referred to as Wild Hollow Renewable Development in previous correspondence with PFBC. Since that time, the developer decided to combine the Wild Hollow site with the Stargazer Renewable Development site ([redacted]). Also please note that the report for [redacted] was submitted in 2025. This current report combines that already submitted report with information about the [redacted] site, visited in April 2026 as well as an additional 209 acre area, referred to as the Okerlund Parcel, that was visited in May 2026. The Okerlund Parcel is immediately adjacent to and west of [redacted].

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 [redacted]), 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; 2 and 3 April and 14 May 2026

On 29 June 2025, at 1000 hours, [redacted] Professor of Biology at SUNY Potsdam arrived near the Investigation Area and met with [redacted] from CEC to orient to the [redacted] section of the Investigation Area and access roads and develop a field plan. To complete the assessment of the Investigation Area, [redacted] and [redacted] continued field investigations on 30 June and 1 July 2025. [redacted] and [redacted] visited the [redacted] section of the Investigation Area on 2 and 3 April and 14 May 2026. The 14 May visit was to survey a 200 acre parcel known as the Okerlund Parcel.

Table 1. Weather Conditions on the Investigation Area during the 2025 and 2026 Habitat Assessments.

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
2 April	0900	42.2	100	0.2
2 April	1100	47.1	100	0.2
2 April	1330	50.5	100, drizzling	0.3
2 April	1530	53.3	100	0.4
2 April	1800	56.0	100	0.3
3 April	0815	52.2	100	0.2
3 April	1115	57.5	100	0.1
3 April	1315	57.9	90	0.2
3 April	1500	64.0	80	0.2
14 May	0930	46.5	100	0.5
14 May	1200	51.3	90	0.5
14 May	1430	58.0	90	0.4

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. Ten 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.

Ten (10) Potentially occupied Habitats (PH) were observed within the Investigation Area (Fig. 2) and are all described below in the order they were encountered. Representative photographs of each PH area, as well as several overview photographs of the Investigation Area (Photos 25 – 39) are provided in Appendix 1. The PH sites are also described on the Timber Rattlesnake Habitat Assessment Forms (Appendix 2) and summarized in Table 2. Of these, 3 PH site was den only and 7 PH sites were gestation only.

PH–D1 appears on Figure [redacted] has some medium-large rock features with belowground openings that may support a den. Due to the fact that many of the rock features are embedded, this site is unlikely to be utilized as den habitat. However, the possibility cannot be ruled out due to the presence of multiple access points to potential belowground overwintering chambers and lack of quality den habitat in the surrounding area. Photos 1 – 3 depict multiple views of PH-D1.

PH-G1 [redacted] The site is

bordered by immature forest on a hilltop, with a north-northwest aspect. Some flat slabs are present and will support gestating female timber rattlesnakes. Photos 4 and 5 depict two views of PH-G1.

[redacted]

[redacted]

[redacted] The tree composition consists of red maple, black birch, black cherry and American beech. Due to the fact that most of the rock features, which cover approximately 30% of the ground surface, are moss covered and embedded in the substrate, and the overall aspect is not highly favorable (NNW), this site is unlikely to be utilized as den habitat. However, the possibility cannot be ruled out due to the presence of several access points to potential belowground overwintering chambers and lack of quality den habitat in the surrounding area. Photos 9 – 12 depict multiple views of PH-D2.

[redacted] and will receive direct sunlight for a significant part of the day (Figure 2). See Photo 13 for an overview of these sites.

[redacted]. The rock features here appear to be of anthropogenic origin and many are flat slabs on top of large blocks (Photos 14 and 15). There are numerous places where a gestating female rattlesnake could bask near secure hiding locations and as such the site was determined to be gestation habitat.

[redacted] while larger in areal extent, has nearly the same rock features and plant species composition and structure (Photos 16 and 17). The significant sun exposure and abundant cover has potential to support gestating female timber rattlesnakes.

[redacted] Similarly, it has the same rock features and plant species composition and structure 12 and 13). [redacted]. The significant sun exposure and abundant cover has potential to support gestating female timber rattlesnakes. Photos 18 and 19 depict two views of PH-G6.

[redacted] is the largest and most likely to a support timber rattlesnake den habitat compared to any other site observed on the Investigation Area. The tree composition (80% canopy coverage) at PH-D3 consists of American beech, sugar maple, black birch, quaking aspen (*Populus tremuloides*), American hornbeam (*Carpinus caroliniana*) and red maple. The rock structure is variable and includes multiple outcrops and ledges and scattered boulder fields below the main outcroppings. Above the site, the topography is largely flat and devoid of rock features. Many belowground openings were observed along the extent of the site. An ATV trail that crosses the site near its northern extent was observed. Photos [redacted]

[redacted]

[redacted] There are several large blocky boulders (mostly embedded in the substrate) and a few flatter slabs that provide some cover underneath. There would be significant sun exposure for much of the day with a favorable aspect that may provide potential basking and gestation habitat elements. Photo 24 depicts a view of PH-G7.

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 2025. Multiple wood frog (*Lithobates sylvatica*) egg masses and one spotted salamander (*Ambystoma maculatum*) egg mass was observed in temporary pools (mostly on woods roads and trails) were observed on 2 April 2026. Multiple eastern newt adults were observed in woodland and roadside pools on 2 April 2026 and many were in amplexus. Several red-backed salamanders (*Plethodon cinereus*) were observed on 14 May 2026. 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	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

CONCLUSION

In conclusion, it is the opinion of the author that all ten (10) PH sites provide either den or gestation habitat elements for timber rattlesnakes and that they vary in quantity and quality. Of these site PH-D3 has the most potential to support a den based upon the favorable aspect and quantity of belowground opportunity. 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,



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.

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Galligan, J.H. and W.A. Dunson. 1979. Biology and status of the timber rattlesnake (*Crotalus horridus*) populations in Pennsylvania. Biol. Conserv. 15:13-58.

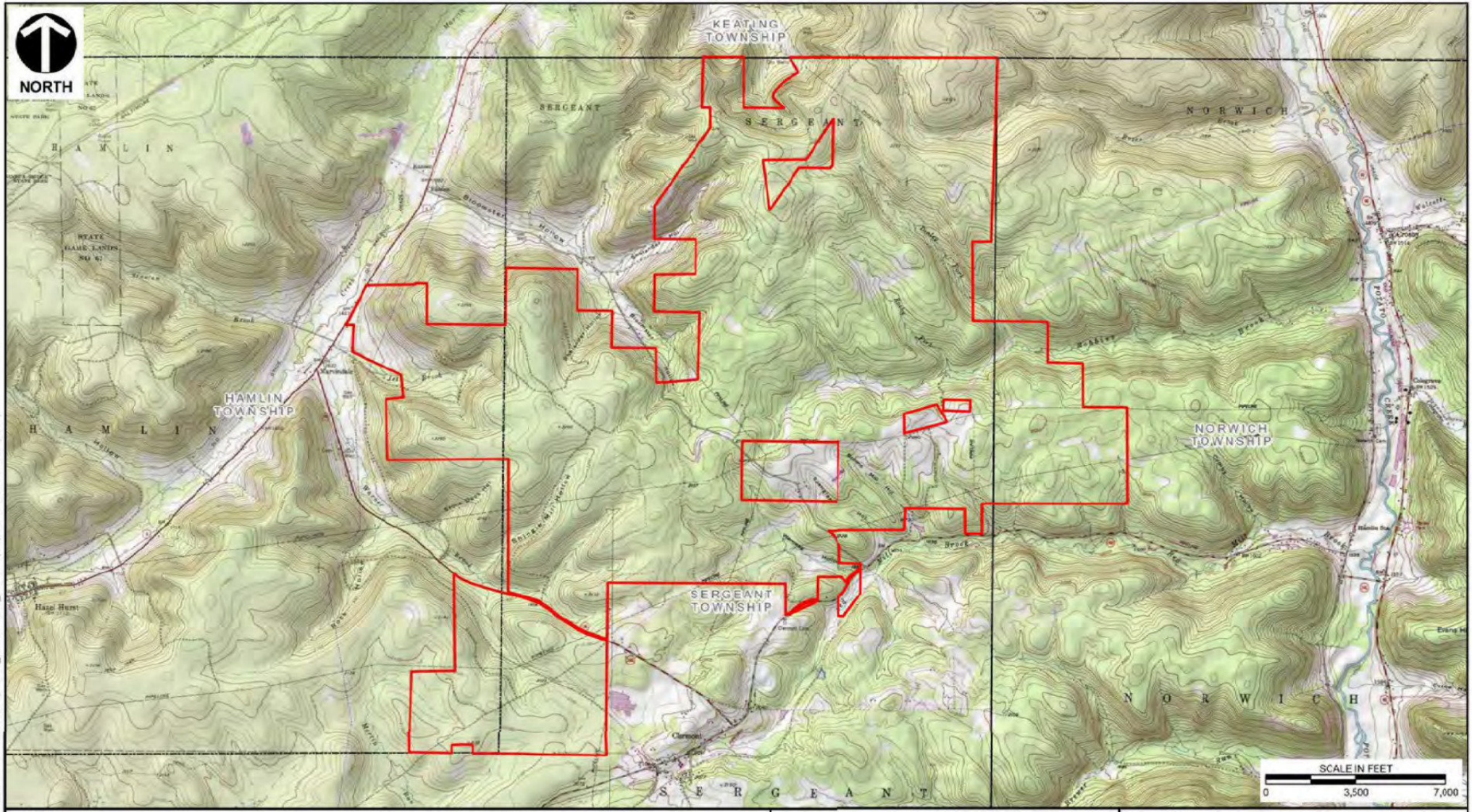
Hulse, A.C., C.J. McCoy and E. Censky. 2001. Amphibians and reptiles of Pennsylvania and the Northeast. Cornell Univ. Press, Ithaca, New York. 419 p.

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LEGEND

- INVESTIGATION AREA
- MUNICIPALITIES

REFERENCES

1.USGS TOPOGRAPHIC MAP/ ARCGIS MAP SERVICE
CROSBY, HAZEL HURST, AND SMETHPORT PA QUADRANGLES
ACCESSED: 5/26/2026

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SITE LOCATION MAP

DRAWN BY:	SML	CHECKED BY:	[redacted]	APPROVED BY:	DRAFT*	FIGURE NO:	1
DATE:	5/26/2026	SCALE:	1" =3,500'	PROJECT NO:	[redacted]		

*Hand Signature on file

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LEGEND

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

REFERENCES

1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY, ACCESSED 5/26/2026, IMAGERY DATE: 9/19/2025.

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TIMBER RATTLESNAKE HABITAT MAP - OVERVIEW

DRAWN BY:	SML	CHECKED BY:	[redacted]	APPROVED BY:	DRAFT*	FIGURE NO:	2
DATE:	5/26/2026	SCALE:	1" =3,500'	PROJECT NO:	[redacted]		

*Hard Signature on file

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LEGEND

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

REFERENCES

1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY, ACCESSED 5/26/2026, IMAGERY DATE: 2024.

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

DRAWN BY:	SML	CHECKED BY:	[redacted]	APPROVED BY:	DRAFT*	FIGURE NO:	2A
DATE:	5/26/2026	SCALE:	1" =50'	PROJECT NO:	[redacted]		

*Hand Signature on file

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LEGEND

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

REFERENCES

1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY. ACCESSED 5/26/2026. IMAGERY DATE: 2024.

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TIMBER RATTLESNAKE HABITAT MAP - PH-G2

DRAWN BY:	SML	CHECKED BY:	[redacted]	APPROVED BY:	DRAFT*	FIGURE NO:	2B
DATE:	5/26/2026	SCALE:	1" =50'	PROJECT NO:	[redacted]		

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LEGEND

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

REFERENCES
1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY. ACCESSED 5/26/2026. IMAGERY DATE: 2024.

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TIMBER RATTLESNAKE HABITAT MAP - PH-G3

DRAWN BY:	SML	CHECKED BY:	[redacted]	APPROVED BY:	DRAFT*
DATE:	5/26/2026	SCALE:	1" = 100'	PROJECT NO:	[redacted]

FIGURE NO: 2C

*Hard Signature on file

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LEGEND

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

REFERENCES

1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY. ACCESSED 5/26/2026. IMAGERY DATE: 2024.

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TIMBER RATTLESNAKE HABITAT MAP - PH-D2

DRAWN BY:	SML	CHECKED BY:	[redacted]	APPROVED BY:	DRAFT*	FIGURE NO:	2D
DATE:	5/26/2026	SCALE:	1" =50'	PROJECT NO:	[redacted]		

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LEGEND

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

REFERENCES

1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY, ACCESSED 5/26/2026, IMAGERY DATE: 2024.

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TIMBER RATTLESNAKE HABITAT MAP - PH-G4

DRAWN BY:	SML	CHECKED BY:	[redacted]	APPROVED BY:	DRAFT*	FIGURE NO:	2E
DATE:	5/26/2026	SCALE:	1" = 100'	PROJECT NO:	[redacted]		

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LEGEND

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

REFERENCES
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MCKEAN COUNTY, PENNSYLVANIA

TIMBER RATTLESNAKE HABITAT MAP - PH-G5

DRAWN BY:	SML	CHECKED BY:	[redacted]	APPROVED BY:	DRAFT	FIGURE NO:	2F
DATE:	5/26/2026	SCALE:	1" = 100'	PROJECT NO:	[redacted]		

*Hard Signature on file

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LEGEND

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

REFERENCES
1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY, ACCESSED 5/26/2026, IMAGERY DATE: 2024.

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

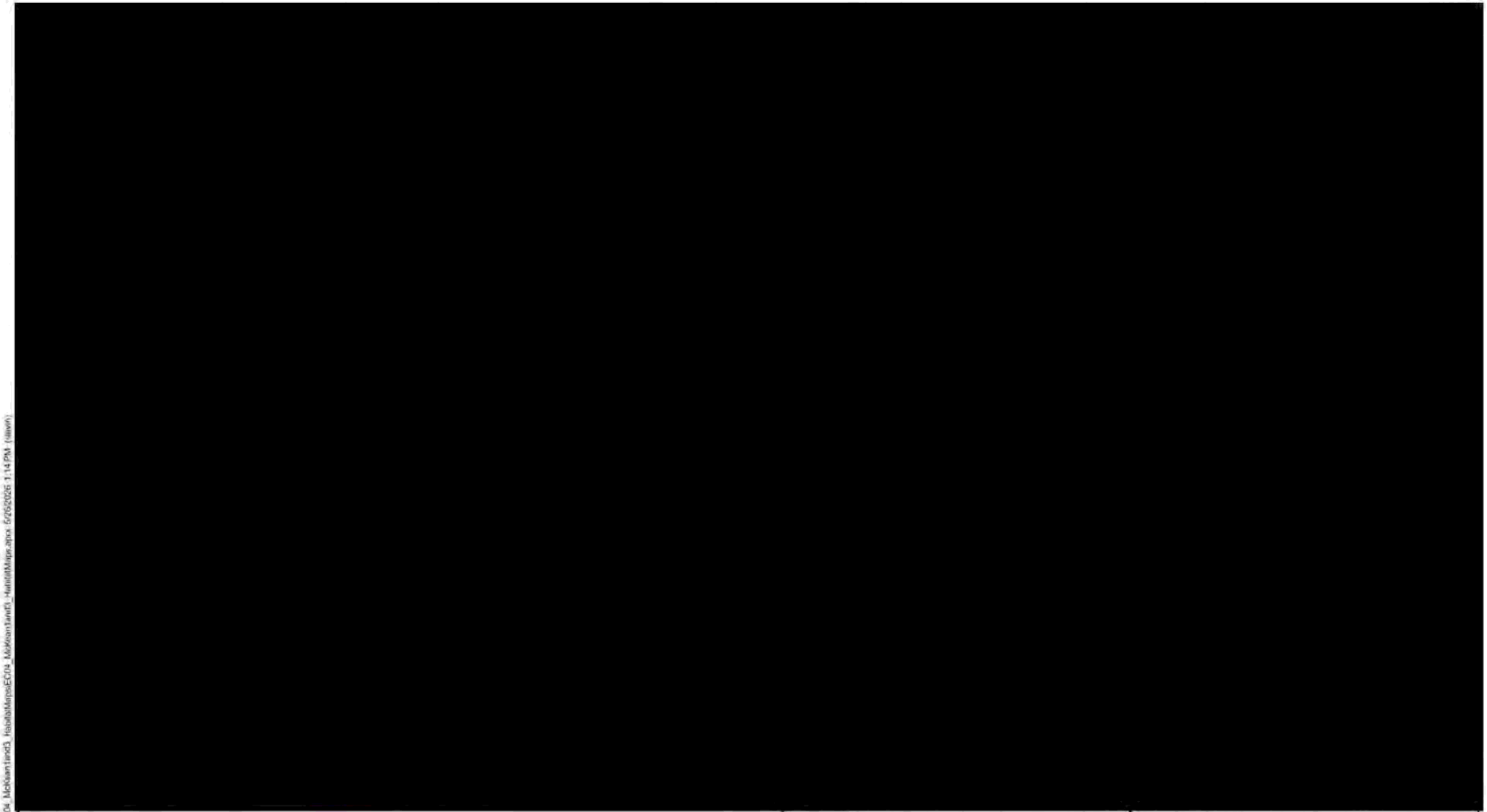
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STARGAZER RENEWABLE DEVELOPMENT
NORWICH, HAMLIN, AND SERGEANT TOWNSHIPS
MCKEAN COUNTY, PENNSYLVANIA

TIMBER RATTLESNAKE HABITAT MAP - PH-G6

DRAWN BY:	SML	CHECKED BY:	[redacted]	APPROVED BY:	DRAFT*	FIGURE NO:	2G
DATE:	5/26/2026	SCALE:	1" = 50'	PROJECT NO:	[redacted]		

*Hard Signature on file

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LEGEND

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

REFERENCES
1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD. IMAGERY ACCESSED 5/26/2026. IMAGERY DATE: 2024.

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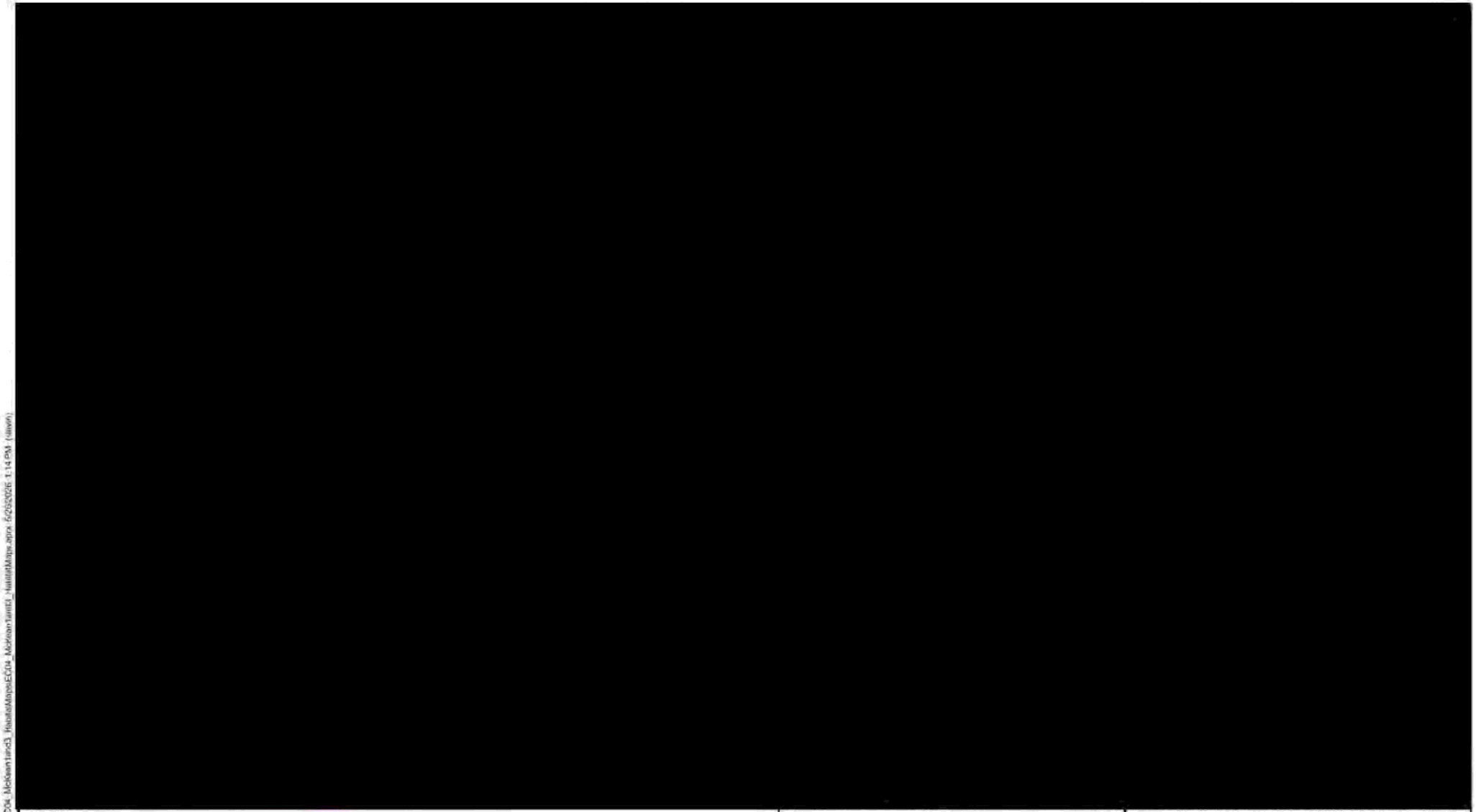
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MCKEAN COUNTY, PENNSYLVANIA

TIMBER RATTLESNAKE HABITAT MAP - PH-D3

DRAWN BY:	SML	CHECKED BY:	[redacted]	APPROVED BY:	DRAFT*	FIGURE NO:	21
DATE:	5/26/2026	SCALE:	1" =200'	PROJECT NO:	[redacted]		

*Hard Signature on file

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LEGEND

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

REFERENCES
1. ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY. ACCESSED 5/29/2025. IMAGERY DATE: 2024.

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TIMBER RATTLESNAKE HABITAT MAP - PH-G7

DRAWN BY:	SML	CHECKED BY:	[redacted]	APPROVED BY:	DRAFT*	FIGURE NO:	2J
DATE:	5/26/2026	SCALE:	1" =50'	PROJECT NO:	[redacted]		

*Hard Signature on file

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