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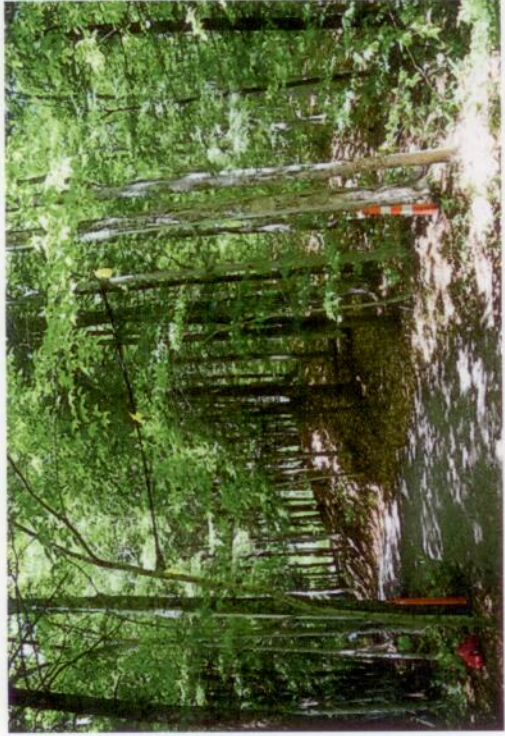
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Appendix I: Capture Site Photographs MABI

MABI Net Site 1: Pogue Pond



NET A

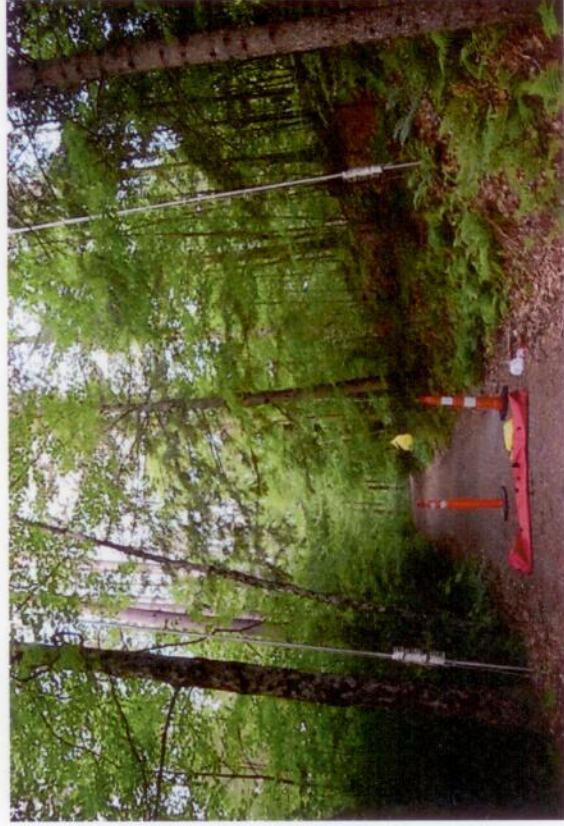


NET B



NET C

MABI Net Site 2: McKenzie Road



NET A



NET B

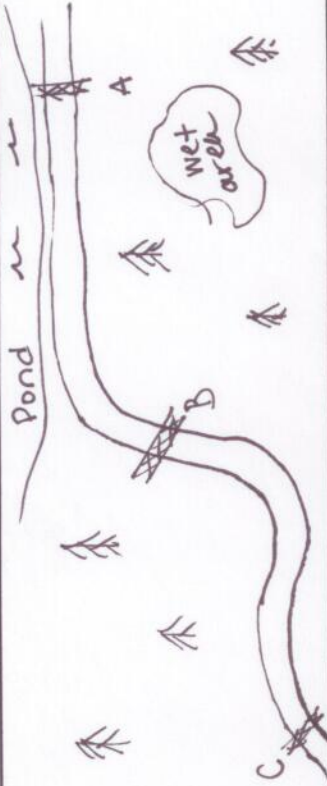
Appendix II: Capture Site Datasheets MABI

Bat sampling site habitat assessment



Date: 6/20/17	Project: MABI	Site: Pogue Pond	Coordinates datum: NAD83
State: VT	County: Windsor	Quad: 43.63418	Latitude: 43.63418
Personnel: DEY, JLB		Longitude: 72.54125	

Site Diagram:



Bat roost habitat types present (circle all that apply)

Rock	Cave	Mine	Buildings	Bat box	Snags/damaged live trees	Bridge	Shagbark	Other:
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Water resources:

Water resources: ☐ No water sources present ☐ Water present not optimal for bats
☒ Good water source (low clutter, slow moving, pools, ponds, road ruts)

If water is present Distance to water source: 1 M Type of water source: pond

Forest structure:

DBH of stand: ☐ Majority <5cm ☒ 5-15 cm present ☒ >15 cm present

Stand age: ☐ Young/Even aged ☐ Some diversity in stand age ☒ Mature (diverse age classes present)

Understory: ☒ High Clutter (restricts flight) ☐ Semi-cluttered (cluttered but gaps present) ☐ Minimal clutter (open understory facilitates flight)

Dominant vegetation species: Am. Beech, Eastern hemlock, Maple

Land Cover:

Mostly unforested Trees present but fragmented Mostly forested

Notes:



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Wing Score: 0 = ≤ 5 small spots, few-no pinholes; 1 = discolored or flaking forearm, < 50% pigment loss, intact membranes; 2 = pigment loss > 50%, small holes < 0.5cm, few areas of necrosis, trailing edge, tears < 1cm; 3 = pigment loss > 90%, abundant necrosis, holes > 0.5cm, trailing edge membrane loss, tears > 1cm; P = physical impact damage

Wind: 0=calm, 1=smoke drifts, 2=leaves rustle/twigs constant mmmt, 4=dust & loose paper move, 5=small trees sway

kv: Clear/few clouds, Partly cloudy, Cloudy (broken) overcast, Fog or smoke, Drizzle, Snow, Showers

Site location: 

Start/End Time: 20:35/6

Net	# High	Length
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A	3	6
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B	3	12
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Time	Species	Percent
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Time	Species	Reprod.	Cords
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*Wing Score: 0 = ≤ 5 small spots, fe

necrosis, trailing edge, tears < 1 cm; 3

Wind: 0 = calm 1 = smoke drifts 2 = leaves

Wind: 0-5 mph, 1-5 mph gusts
 Sky: Clear/few clouds Partly cloudy

SKY: Clear/new clouds, Fairly cloudy,

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Biodiversity Research Institute

Bat sampling site habitat assessment



Date: 6/22/17	Project: NPS MABT	Site: McKenzie	Coordinates datum: NAD83
State: VT	County: Windsor	Quad: 43	Latitude: 63749
Personnel: DYJB			Longitude: 72.55190

Site Diagram:



Bat roost habitat types present (circle all that apply)

☒ Rock
 ☐ Cave
 ☐ Mine
 ☒ Buildings
 ☐ Bat box
 ☐ Snags/damaged live trees
 ☐ Bridge
 ☐ Shagbark
 ☐ Other:

Water resources:

Water resources: ☒ No water sources present ☐ Water present not optimal for bats
☐ Good water source (low clutter, slow moving, pools, ponds, road cuts)

If water is present Distance to water source: Type of water source:

Forest structure:

DBH of stand: ☐ Majority <5cm ☐ 5-15 cm present ☒ >15 cm present

Stand age: ☐ Young/Even aged ☐ Some diversity in stand age ☒ Mature (diverse age classes present)

Understory: ☐ High Clutter (restricts flight) ☒ Semi-cluttered (cluttered but gaps present) ☐ Minimal clutter (open understory facilitates flight)

Dominant vegetation species:

Land Cover:

Mostly unforested Trees present but fragmented Mostly forested

Notes:

276 Canco Road, Portland, Maine 04103

207.839.7600

Biodiversity Research Institute

Digital backup CMB
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Date: 06/22/2017 Project: MABSI Site: McKenzie Road

Site location: McKenzie Road Personnel: DEY, JLB

Start/End Time: 20:20 / 01:45 Start/End Temp: 68.3 / 62.8

Start/End Time: 20:20 / 01:43		Start/End Temp. 60.3 / 62.8		Length		Feature		Net		# High	Length	Feature		Rise		Set	
Net	# High	Length	Feature	Mass (g)	Forearm (mm)	Ear (mm)	Wing Score*	Band (Text / #)	Net/ Height	Sample ID	Sample type	Freq.	Comments				
A	3	6	Road		E					Moon	04:03		16:53				
B	3	6	Road		F						Phase		1.7				
C					G					Sun	05:09		20:35				
D					H												
Time	Species	Sex / Reprod. Condn.	Age	Mass (g)	Forearm (mm)	Ear (mm)	Wing Score*	Band (Text / #)	Net/ Height	Sample ID	Sample type	Freq.	Comments				
21:00	EPFU	F/L	A	17.2	44.4	15	Ø	—	A/4	—	—	—					
21:02	EPFU	F/L	A	16.5	44.0	12	1	—	A/3	—	—	—					
21:30	EPFU	F/L	A	17.9	45.9	14	Ø	—	A/2	—	—	—					
22:13	EPFU	F/NR	A	20.5	45.2	15	Ø	—	A/2	—	—	—					
00:03	EPFU	F/L	A	25.1	47.2	14	1	—	A/1.5	—	—	—					
00:40	EPFU	F/L	A	21.0	47.1	16	Ø	—	A/2.5	—	—	—					
00:40	EPFU	F/L	A	22.4	46.8	14	Ø	—	A/1.5	—	—	—					
00:50	EPFU	F/L	A	21.2	44.1	14	Ø	—	A/1.5	—	—	—					
00:50	EPFU	F/L	A	24.9	48.1	16	Ø	—	A/2.5	—	—	—					
1:10	EPFU	M/NR	A	16.9	44.3	14	Ø	—	A/1.5	—	—	—					

*Wing Score: 0 = ≤ 5 small spots, few-no pinholes; 1 = discolored or flaking forearm, < 50% pigment loss, intact membranes; 2 = pigment loss > 50%, small holes < 0.5cm, few areas of necrosis, trailing edge, tears < 1cm; 3 = pigment loss > 90%, abundant necrosis, holes > 0.5cm, trailing edge membrane loss, tears > 1cm; P = physical impact damage

Wind: 0=calm, 1=smoke drifts, 2=leaves rustle/wind felt on skin, 3=leaves/twigs constant mvmt, 4=dust & loose paper move, 5=small trees sway

Sky: Clear/few clouds, Partly cloudy, Cloudy (broken) overcast, Fog or smoke, Drizzle, Snow, Showers

Digital backup CMB
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 Page 2 of 2

Appendix III: Capture Site Photographs SAGA

SAGA Net Site 1: Ravine Trail



NET A



NET B



NET C

Appendix IV: Capture Site Datasheets SAGA

Bat sampling site habitat assessment

Date: 6/23/17	Project: SAGA	Site: Ravine Trail	Coordinates datum: NAD83
State: NH	County: Sullivan	Quad: —	Latitude: 43.501649
Personnel: DEY, JLB			Longitude: -72.370204



Bat roost habitat types present (circle all that apply)

Rock Cave Mine Buildings Bat box Snags/damaged live trees Bridge Shagbark Other:

Water resources:

If water is present

☐ No water sources present	☐ Water present not optimal for bats
☒ Good water source (low clutter, slow moving, pools, ponds, road ruts)	
Distance to water source: 6m	Type of water source: stream

Forest structure:

DBH of stand: ☐ Majority <5cm ☒ 5-15 cm present ☒ >15 cm present

Stand age: ☐ Young/Even aged ☒ Some diversity in stand age ☐ Mature (diverse age classes present)

Understory: ☐ High Clutter (restricts flight) ☐ Semi-cluttered (cluttered but gaps present) ☒ Minimal clutter (open understory facilitates flight)

Dominant vegetation species: hemlock, maple, oak

Land Cover:

Mostly unforested Trees present but fragmented Mostly forested

Notes:



BIODIVERSITY RESEARCH INSTITUTE
INNOVATIVE SCIENTIFIC APPROACH

BIODIVERSITY RESEARCH INSTITUTE
In collaboration with the following:

[illegible]

B							Sun	5:09	2034
C	3	12	6 ~~7~~ trail	G					
D				H					

Time	Species	Sex / Reprod. Condn.	Age	Mass (g)	Forearm (mm)	Ear (mm)	Wing Score*	Band (Text / #)	Net/ Height	Sample ID	Sample type	Freq.	Comments

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*Wing Score: **0** = ≤ 5 small spots, few-no pinholes; **1** = discolored or flaking forearm, < 50% pigment loss, intact membranes; **2** = pigment loss > 50%, small holes < 0.5cm, few areas of

necrosis, trailing edge, tears < 1 cm; **3** = pigment loss>90%, abundant necrosis, holes> 0.5cm, trailing edge membrane loss, tears> 1cm; **P** = physical impact damage

Wind: 0=calm, 1=smoke drifts, 2=leaves rustle/wind felt on skin, 3=leaves/twigs constant mvmt, 4=dust & loose paper move, 5=small trees sway

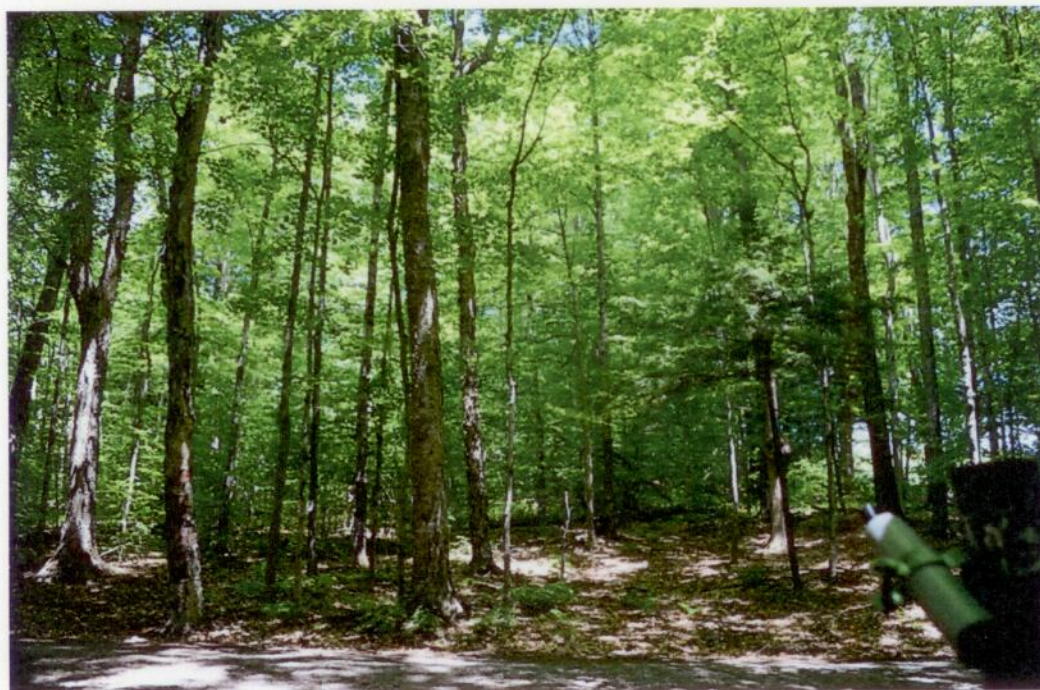
Sky, Clear/few clouds, Partly cloudy, Cloudy (broken) overcast, Fog or smoke, Drizzle, Snow, Showers

Appendix V: Acoustic Site Photographs MABI

MABI Acoustic Site 1



MABI Acoustic Site 2



MABI Acoustic Site 3



Appendix VI: Acoustic Site Datasheets MABI

Bat sampling site habitat assessment



Date: 6/21/17	Project: MABI/SAGA	Site: MABI 1	Coordinates datum: NAD83
State: VT	County: Windsor	Quad:	Latitude: 43.63332
Personnel: DYJB			Longitude: 72.52779

Site Diagram:

Bat roost habitat types present (circle all that apply)

Rock	Cave	Mine	Buildings	Bat box	Snags/damaged live trees	Bridge	Shagbark	Other:
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Water resources:

Water resources: ☐ No water sources present ☐ Water present not optimal for bats

☒ Good water source (low clutter, slow moving, pools, ponds, road ruts)

If water is present Distance to water source: 1 km Type of water source: pond

Forest structure:

DBH of stand: ☐ Majority <5cm ☐ 5-15 cm present ☒ >15 cm present

Stand age: ☐ Young/Even aged ☐ Some diversity in stand age ☒ Mature (diverse age classes present)

Understory: ☐ High Clutter (restricts flight) ☐ Semi-cluttered (cluttered but gaps present) ☒ Minimal clutter (open understory facilitates flight)

Dominant vegetation species: Beech, maple, hemlock

Land Cover:

Mostly unforested Trees present but fragmented Mostly forested

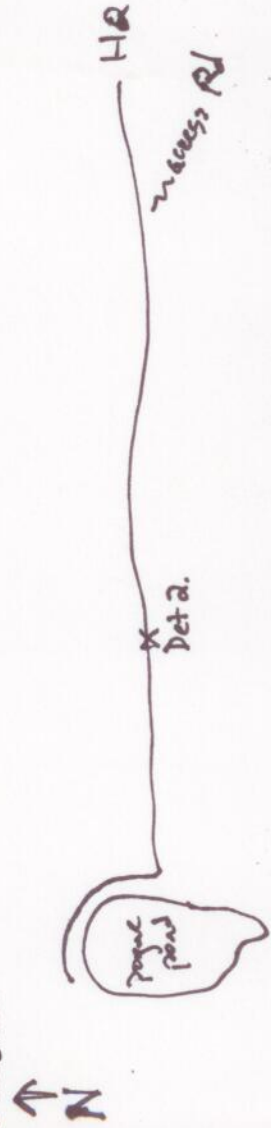
Notes: snags present and numerous

Bat sampling site habitat assessment



Date: 6/21/17	Project: MABE/SAGA	Site: MABE2	Coordinates datum: NAD83
State: VT	County: Windsor	Quad: —	Latitude: 43.638218
Personnel: DY, JB			Longitude: 72.53896

Site Diagram:



Bat roost habitat types present (circle all that apply)

Rock Cave Mine Buildings Bat box Snags/damaged live trees Bridge Shagbark Other:

Water resources:

Water resources: ☐ No water resources present ☐ Water present not optimal for bats
☒ Good water source (low clutter, slow moving, pools, ponds, road ruts)

If water is present Distance to water source: 20m Type of water source: stream, pond

Forest structure:

DBH of stand: ☐ Majority <5cm ☐ 5-15 cm present ☒ >15 cm present
 Stand age: ☐ Young/Even aged ☐ Some diversity in stand age ☒ Mature (diverse age classes present)

Understory: ☐ High Clutter (restricts flight) ☐ Semi-cluttered (cluttered but gaps present) ☒ Minimal clutter (open understory facilitates flight)

Dominant vegetation species: maple, beech, hemlock

Land Cover:

Mostly unforested Trees present but fragmented Mostly forested

Notes: limited Snags

Bat sampling site habitat assessment



Date: 6/21/17	Project: MABT/BAGA	Site: MABT3	Coordinates datum: NAD83
State: VT	County: Windsor	Quad:	Latitude: 43.63312
Personnel: DY, JB			Longitude: 72.54058

Site Diagram:



Bat roost habitat types present (circle all that apply)

Rock Cave Mine Buildings Bat box Snags/damaged live trees Bridge Shagbark Other:

Water resources:

Water resources: ☐ No water sources present ☐ Water present not optimal for bats
☒ Good water source (low clutter, slow moving, pools, ponds, road ruts)

If water is present Distance to water source: 1m Type of water source: pond

Forest structure:

DBH of stand: ☐ Majority <5cm ☐ 5-15 cm present ☐ >15 cm present

Stand age: ☐ Young/Even aged ☐ Some diversity in stand age ☒ Mature (diverse age classes present)

Understory: ☐ High Clutter (restricts flight) ☐ Semi-cluttered (cluttered but gaps present) ☒ Minimal clutter (open understory facilitates flight)

Dominant vegetation species: hemlock, birch, ash

Land Cover:

Mostly unforested Trees present but fragmented Mostly forested

Notes: limited snags

Appendix VII: Acoustic Site Photographs SAGA

SAGA Acoustic Site 1



SAGA Acoustic Site 2



SAGA Acoustic Site 3



Appendix VIII: Acoustic Site Datasheets SAGA

Bat sampling site habitat assessment



Date: 6/24/17	Project: MABT/SAGA	Site: SAGA1	Coordinates datum: NAD83
State: NH	County: Sullivan	Quad:	Latitude: 43.49653
Personnel: DY, JB			Longitude: -72.37736

Site Diagram:



Bat roost habitat types present (circle all that apply)

Rock	Cave	Mine	Buildings	Bat box	Snags/damaged live trees	Bridge	Shagbark	Other:
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Water resources:

Water resources:

☐ No water sources present ☐ Water present not optimal for bats

☒ Good water source (low clutter, slow moving, pools, ponds, road ruts)

If water is present Distance to water source: 20 m Type of water source: River

Forest structure:

DBH of stand: ☐ Majority <5cm ☐ 5-15 cm present ☒ >15 cm present

Stand age: ☐ Young/Even aged ☒ Some diversity in stand age ☐ Mature (diverse age classes present)

Understory: ☐ High Clutter (restricts flight) ☐ Semi-cluttered (cluttered but gaps present) ☒ Minimal clutter (open understory facilitates flight)

Dominant vegetation species: ~~maple~~ maple

Land Cover:

Mostly unforested Trees present but fragmented Mostly forested

Notes: Blow-me-down farm near bar w/ bats, bottomland near CT river
- some snag present

Bat sampling site habitat assessment



Date: 6/27/17	Project: MBRI/SAGA	Site: SAGA2	Coordinates datum: NAD83
State: NH	County: Sullivan	Quad:	Latitude: 43.49743
Personnel: DY, JB			Longitude: -72.37966

Site Diagram:



Bat roost habitat types present (circle all that apply)

Rock	Cave	Mine	Buildings	Bat box	Snags/damaged live trees	Bridge	Shagbark	Other:
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Water resources:

Water resources: ☐ No water sources present ☐ Water present not optimal for bats

☒ Good water source (low clutter, slow moving, pools, ponds, road cuts)

If water is present Distance to water source: 20m Type of water source: pond/stream

Forest structure:

DBH of stand: ☐ Majority <5cm ☒ 5-15 cm present ☐ >15 cm present

Stand age: ☐ Young/Even aged ☒ Some diversity in stand age ☐ Mature (diverse age classes present)

Understory: ☐ High Clutter (restricts flight) ☐ Semi-cluttered (cluttered but gaps present) ☒ Minimal clutter (open understory facilitates flight)

Dominant vegetation species: hemlock, oak, maple

Land Cover:

Mostly unforested Trees present but fragmented Mostly forested

Notes: - adjacent stream & pond will
- Some snags

Bat sampling site habitat assessment



Date: 6/24/17	Project: MARI/GAGA	Site: SAGA3	Coordinates datum: NAD83
State: NH	County: Sullivan	Quad:	Latitude: 43.50190
Personnel: DY, JB			Longitude: -72.36783



Bat roost habitat types present (circle all that apply)

Rock	Cave	Mine	Buildings	Bat box	Snags/damaged live trees	Bridge	Shagbark	Other:
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Water resources:

Water resources:

☐ No water sources present ☐ Water present not optimal for bats

☒ Good water source (low clutter, slow moving, pools, ponds, road cuts)

If water is present

Distance to water source: 10 m Type of water source: Stream

Forest structure:

DBH of stand: ☐ Majority <5cm ☐ 5-15 cm present ☒ >15 cm present

Stand age: ☐ Young/Even aged ☐ Some diversity in stand age ☒ Mature (diverse age classes present)

Understory: ☐ High Clutter (restricts flight) ☐ Semi-cluttered (cluttered but gaps present) ☒ Minimal clutter (open understory facilitates flight)

Dominant vegetation species: hemlock, maple, oak

Land Cover:

Mostly unforested Trees present but fragmented Mostly forested

Notes:

- good corridors
- numerous snags