

# PDN 2EN1 – Bat Habitat Survey Report QA Checklist

SPOT ID/Project TIP #: \_\_\_\_\_

County: \_\_\_\_\_

## 2EN1 – Assess Natural Environment Impacts – Bat Survey Report

Item #	Review Item	Completed (Firm)
1	Complete NCDOT bat habitat assessment form per SOP instructions <a href="https://connect.ncdot.gov/resources/Environmental/EAU/BSG/Documents/Bats/NCDOT%20SOP%202024%20Prelim%20Bat%20Habitat%20Assessment%20Struc%20Cave%20Mine.pdf">https://connect.ncdot.gov/resources/Environmental/EAU/BSG/Documents/Bats/NCDOT%20SOP%202024%20Prelim%20Bat%20Habitat%20Assessment%20Struc%20Cave%20Mine.pdf</a>	
1.1	For culverts specifically, not all culverts may be available via GIS layers. It will be necessary to review a combination of aerial maps and topographic crenulations on USGS topo maps to help identify low spots that cross the road in order to locate potential culverts in the field.	
1.2	Provide location identifiers including 6 digit structure number (not 3 digits). If that is not available (as is the case with some culverts), provide decimal degree coordinates. Structures layer maintained by Structures Management Unit, 2024 release: <a href="https://connect.ncdot.gov/resources/gis/pages/gis-data-layers.aspx">https://connect.ncdot.gov/resources/gis/pages/gis-data-layers.aspx</a>	
1.3	Habitat description (% surrounding habitat w/in 1 mile)	
1.4	Identify tree roosting habitat w/in project footprint (>3" dbh)	
1.5	Identify presence of caves or mines (within 0.5 mile)	
1.6	Identify major water sources	
1.7	Describe structure specific characteristics (all measurements provided will be in feet (not inches). Ex, 3 inches water depth in culvert = 0.25 feet)	
1.8	Describe evidence of bat structure use (if evidence observed, provide pictures)	
1.9	Complete Structure Emergence Count (if necessary)	
2	Complete Bat Habitat Survey Report* using information obtained from form above	
2.1	Provide proposed project description	
2.2	Provide nearest NHP occurrence record (include citation of version date April 20XX). Ex: nearest NHP record is 2.3 miles northeast of the project study area in Clay County, previously observed in 2001 (EO ID 35821).	
2.3	Describe surrounding habitat (urban, forested, etc.). Describe survey methods (i.e. state if followed SOP and ways in which you did: daylight survey, trained personnel, thresholds followed for culvert surveys, looked up mines, IPaC species list, followed decon protocol) and provide survey date.	
2.4	Describe the bridge using information collected from survey form. Provide exact location of any evidence †	
2.5	Include table of species and habitat types (table to include all of the structures (organized by structure #), type (bridge/culvert), and location (lat/ long, DD), survey date and evidence (yes/no/type). Also, another table including presence or probable absence with species and then ✓/X to identify if summer roosting, winter roosting, foraging and commuting habitat types are present.	
2.6	Provide vicinity map with project study area poly, data forms and pictures of evidence observed, surrounding habitat and structure (bridge: underside and shot of bridge and what it crosses over, culvert: provide a picture of inlet, outlet and interior).	
2.7	Qualification of investigators	

\* Do not include a section on species description, keep report as concise as possible

† Exact location of evidence ex: north side, second expansion joint has guano, guano piled up on northern bent cap, staining in open area near south side back wall and guano accumulated below

Last updated: 5/16/24

*Please provide comments or action items in the table below.*



*This checklist may not be comprehensive to every project. All items may not be applicable for smaller projects. It is the responsibility of the reviewer to ensure that an adequate review is performed.*

I have reviewed the plans for consistency with this checklist and confirmed that all items have been completed.

**QA Reviewer Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**QA Reviewer (Signature):** \_\_\_\_\_