ATTACHMENT 1 PROJECT FIGURES

Figure 1-A Aerial

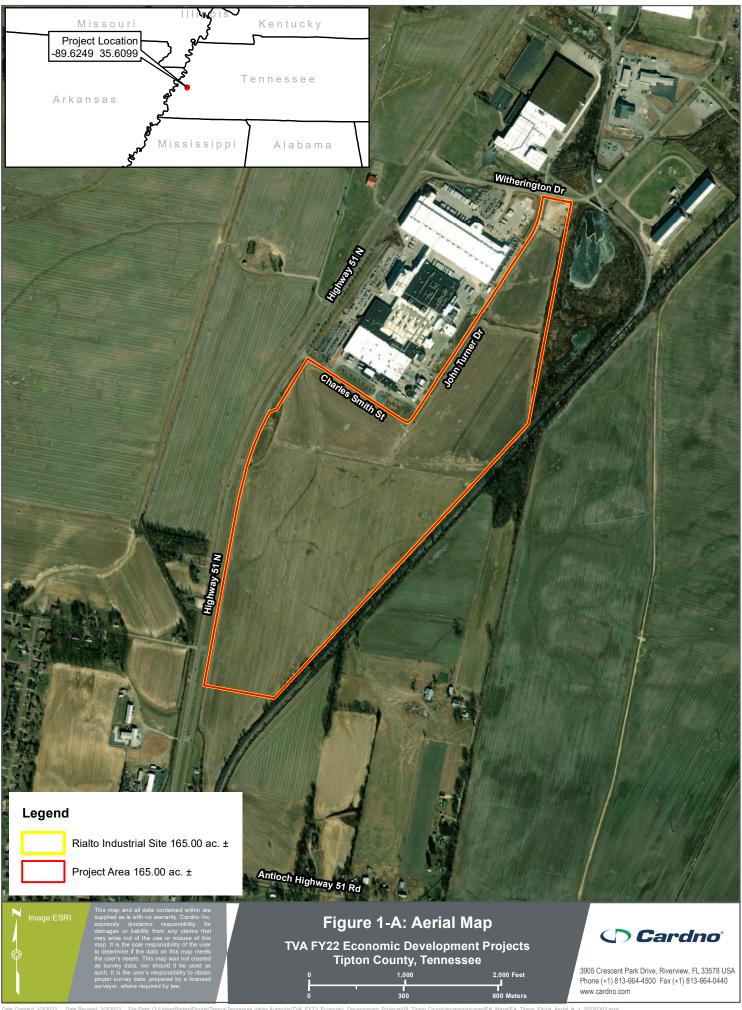


Figure 1-B Proposed Activities

Conceptual

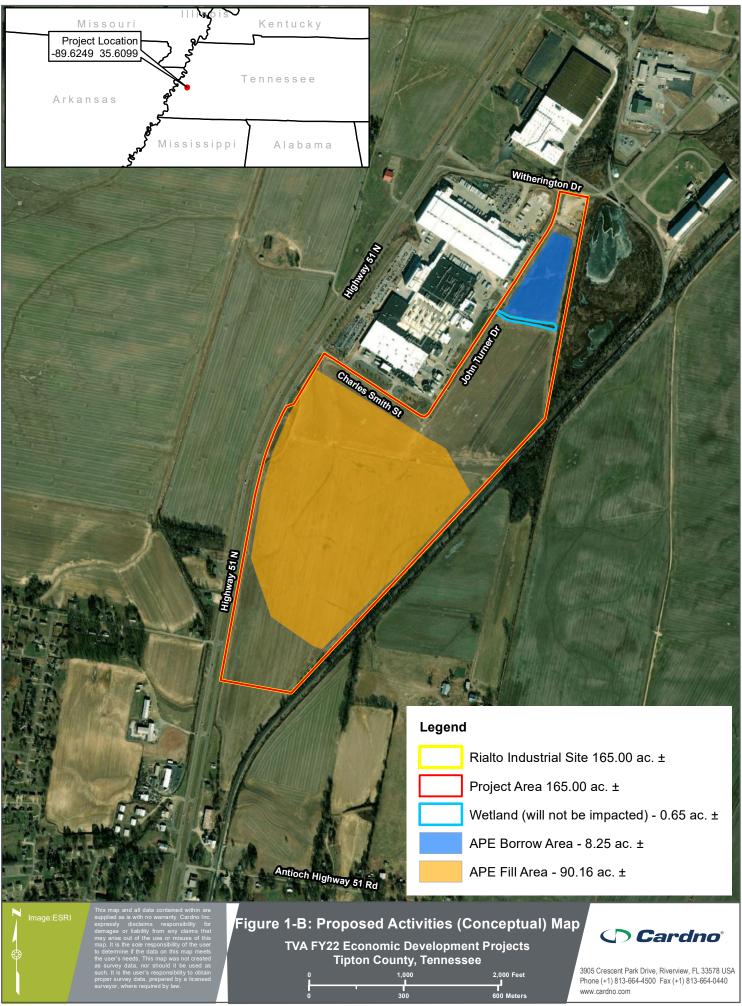


Figure 1-C USGS Quadrangle

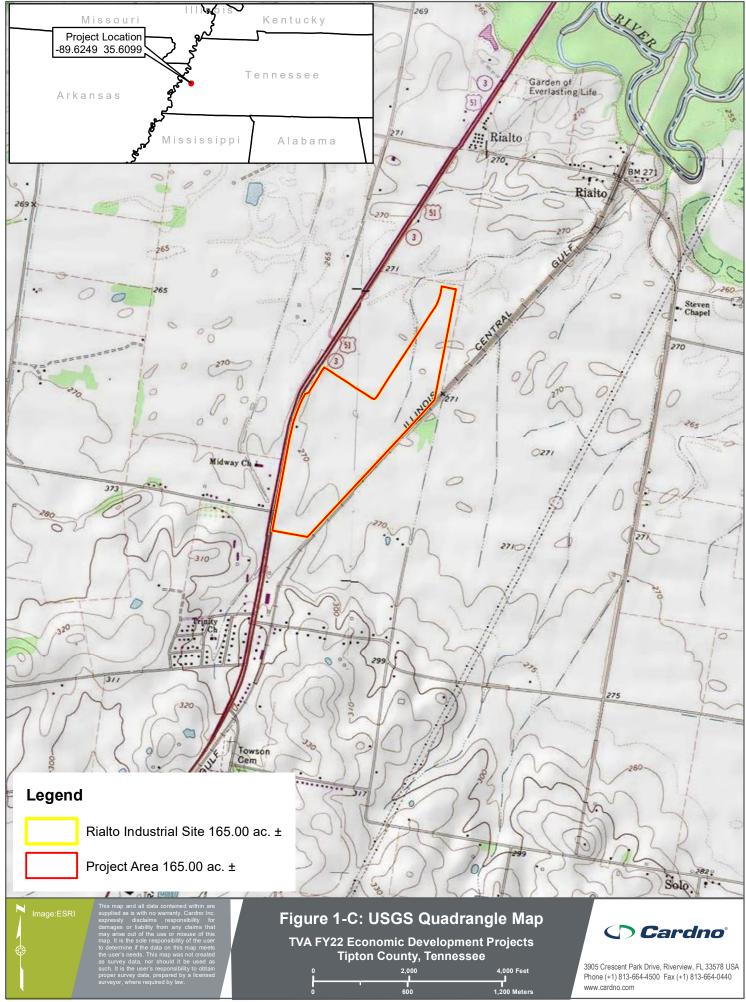


Figure 1-D FEMA Floodplain

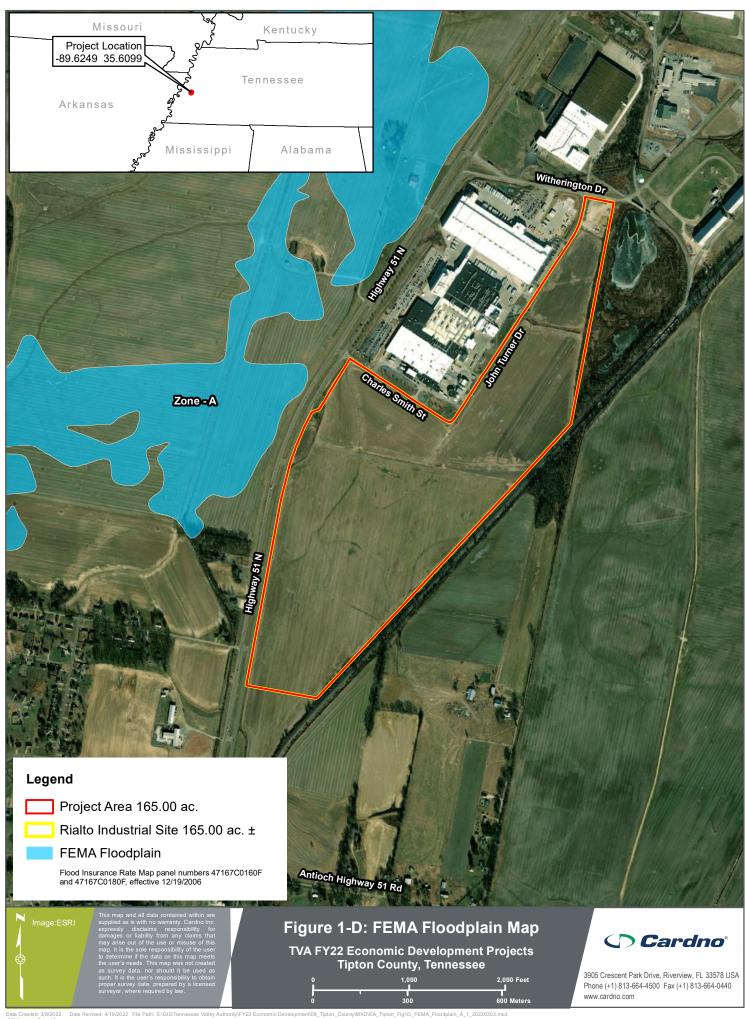


Figure 1-E USFWS NWI and Water Resources Inventory Map

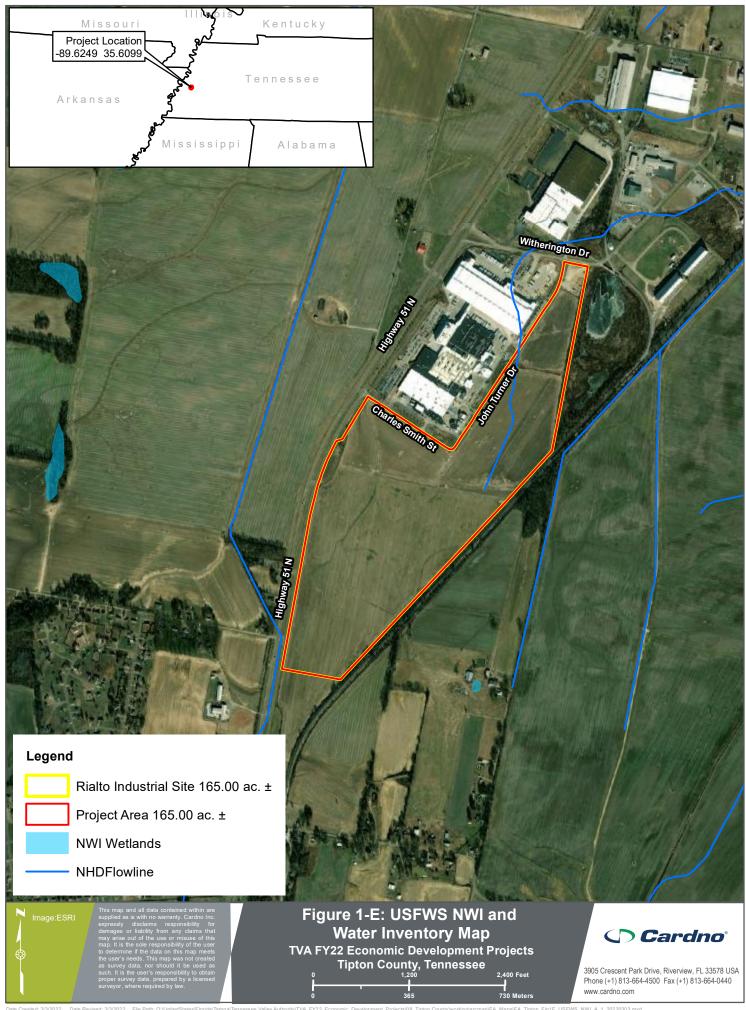


Figure 1-F Wetlands and Waterbodies Map

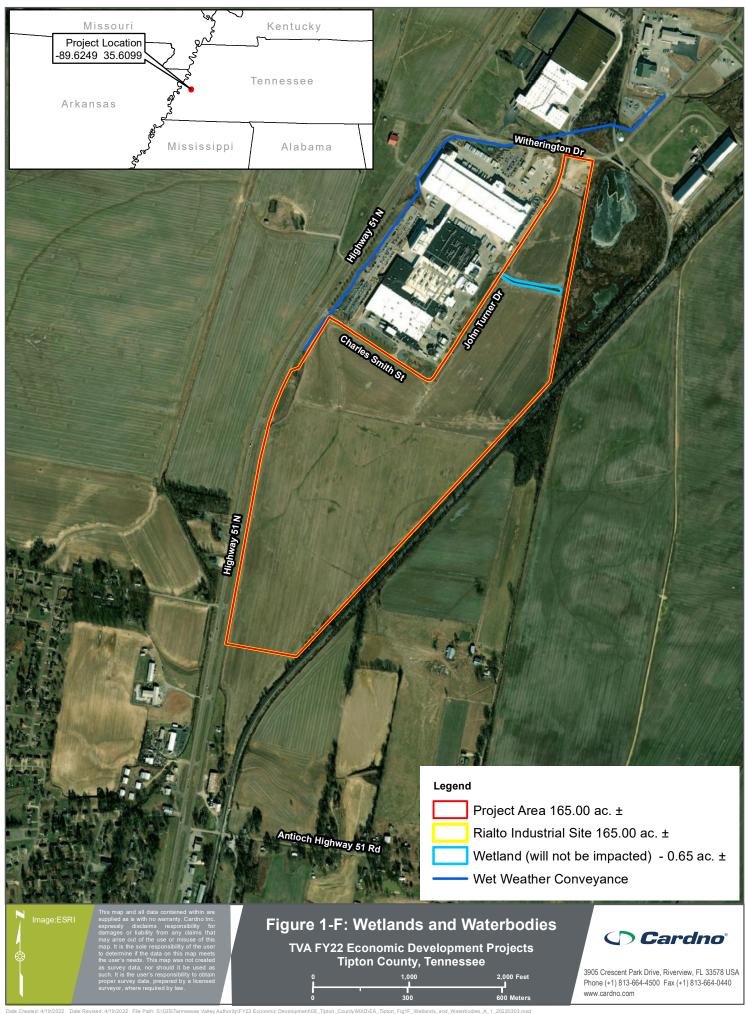
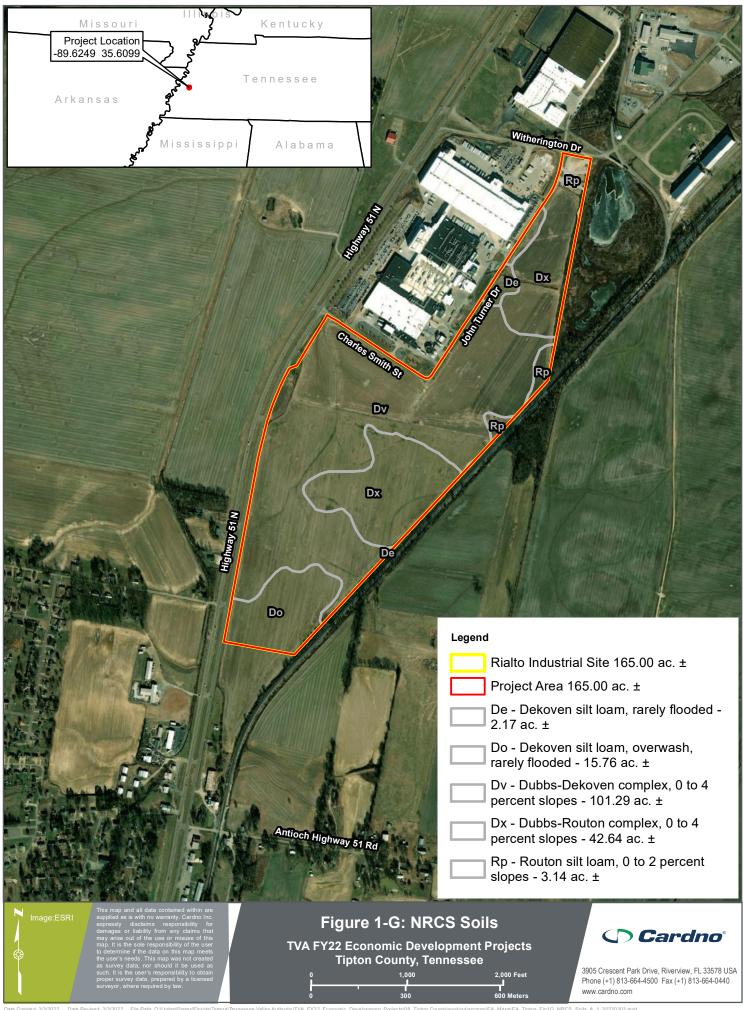


Figure 1-G NRCS Soils Map



ATTACHMENT 2 TVA Bat Strategy Project Screening Form

Project Review Form - TVA Bat Strategy (06/2019)

This form should **only** be completed if project includes activities in Tables 2 or 3 (STEP 2 below). This form is not required if project activities are limited to Table 1 (STEP 2) or otherwise determined to have no effect on federally listed bats. If so, include the following statement in your environmental compliance document (e.g., add as a comment in the project CEC): "Project activities limited to Bat Strategy Table 1 or otherwise determined to have no effect on federally listed bats. Bat Strategy Project Review Form NOT required." This form is to assist in determining required conservation measures per TVA's ESA Section 7 programmatic consultation for routine actions and federally listed bats. ¹

Project Name:	Tipton County InvestPrep	"Rialto Industrial Park"			Date: Nov 18, 2021	
Contact(s):	Brooke Davis	CEC#:			ct ID:	39542
Project Location	n (City, County, State):	Covington, Tipton County, Tenn	essee	_		
Project Descript	tion:					
Utilize TVA Inve	estPrep funding to assist with	the rough grading of the Rialto Ind	ustrial Park to improve	stormwat	er draina	ige.
SECTION 1: PRO	OJECT INFORMATION - AC	FION AND ACTIVITIES				
		cable, contact environmental su lication of Bat Programmatic Co				l, or Terrestrial
1 Manage Bio Lands	logical Resources for Biodiversity	and Public Use on TVA Reservoir	6 Maintain Existing	g Electric Tra	ansmissio	on Assets
2 Protect Cult	ural Resources on TVA-Retained	Land	7 Convey Property Transmission	Convey Property associated with Electric nsmission		
3 Manage Lar	nd Use and Disposal of TVA-Retai	ned Land	8 Expand or Const Assets	8 Expand or Construct New Electric Transmission Assets		
4 Manage Per	mitting under Section 26a of the	TVA Act	9 Promote Econor	9 Promote Economic Development		
5 Operate, Maintain, Retire, Expand, Construct Power Plants		Power Plants	10 Promote Mid-S	10 Promote Mid-Scale Solar Generation		า
STEP 2) Select	all activities from Tables 1,	2, and 3 below that are include	ed in the proposed pr	oject.		
TABLE 1. Activ required.	ities with no effect to bats. (Conservation measures & comple	tion of bat strategy p	roject rev	iew forn	n NOT
1. Loans and	d/or grant awards	8. Sale of TVA property		-specific en I reservoirs		ents in streams cic animals
2. Purchase	of property	9. Lease of TVA property	☐ 20. Nes	ting platfor	ms	
3. Purchase of facilities	of equipment for industrial	10. Deed modification associated rights or TVA property		include bo		ctures (this does boat slips or
4. Environme	ental education	11. Abandonment of TVA retaine		ernal renova nn existing f		nternal expansion
5. Transfer of equipme	ROW easement and/or ROW	12. Sufferance agreement	43. Rep	lacement o	or remova	ıl of TL poles
6. Property a	and/or equipment transfer	13. Engineering or environmenta or studies		nductor and tallation and		d ground wire ment

☐ 14. Harbor limits delineation

49. Non-navigable houseboats

7. Easement on TVA property

TABLE 2. Activities not likely to adversely a completion of bat strategy project review f		-				
18. Erosion control, minor	<u> </u>	Nater intake - non-industrial	<u> </u>	Swimming pools/associated equipment		
24. Tree planting	<u>58. \</u>	Wastewater outfalls	81.	Water intakes – industrial		
30. Dredging and excavation; recessed harbor areas	<u> </u>	Marine fueling facilities	84.	On-site/off-site public utility relocation or construction or extension		
39. Berm development		Commercial water-use facilities (e.g., marinas)	85.	Playground equipment - land-based		
40. Closed loop heat exchangers (heat pumps)	61. 9	Septic fields	87.	Aboveground storage tanks		
45. Stream monitoring equipment - placement and use		Private, residential docks, piers, boathouses	88. Underground storage tanks			
46. Floating boat slips within approved harbor limits	67. 9	Siting of temporary office trailers	90.	Pond closure		
48. Laydown areas		Financing for speculative building construction	93.	Standard License		
50. Minor land based structures	72. F	erry landings/service operations	94.	Special Use License		
51. Signage installation	74. F	Recreational vehicle campsites	95.	Recreation License		
53. Mooring buoys or posts	☐ 75. l	Jtility lines/light poles	96.	Land Use Permit		
56. Culverts	<u> </u>	Concrete sidewalks				
Table 3: Activities that may adversely affect federally listed bats. Conservation measures AND completion of bat strategy project review form REQUIRED; review of bat records in proximity of project REQUIRED by OSAR/Heritage eMap reviewer or Terrestrial Zoologist.						
15. Windshield and ground surveys for archae resources	eological	34. Mechanical vegetation removal includes trees or tree branches inches in diameter		69. Renovation of existing structures		
16. Drilling		35. Stabilization (major erosion con	trol)	70. Lock maintenance/ construction		
17. Mechanical vegetation removal, does not trees or branches > 3" in diameter (in Table to potential for woody burn piles)		■ 36. Grading		71. Concrete dam modification		
21. Herbicide use		37. Installation of soil improvement	:S	73. Boat launching ramps		
22. Grubbing		38. Drain installations for ponds		77. Construction or expansion of land-based buildings		
23. Prescribed burns		47. Conduit installation		78. Wastewater treatment plants		
25. Maintenance, improvement or construction pedestrian or vehicular access corridors	on of	52. Floating buildings		80. Barge fleeting areas		
26. Maintenance/construction of access conti measures	rol	54. Maintenance of water control st (dewatering units, spillways, lev		82. Construction of dam/weirs/ levees		
27. Restoration of sites following human use	and abuse	55. Solar panels		83. Submarine pipeline, directional boring operations		
28. Removal of debris (e.g., dump sites, hazard material, unauthorized structures)	dous	62. Blasting		86. Landfill construction		
29. Acquisition and use of fill/borrow materia	l	63. Foundation installation for transsupport	smission	89. Structure demolition		
31. Stream/wetland crossings		64. Installation of steel structure, over bus, equipment, etc.	verhead	91. Bridge replacement		
32. Clean-up following storm damage		65. Pole and/or tower installation a extension	nd/or	92. Return of archaeological remains to former burial sites		
33. Removal of hazardous trees/tree branches	5					

Project Review Form - TVA Bat Strategy (06/2019)

STEP 4) Answer q	uestions <u>a</u> through	<u>e</u> below (applies to	projects with acti	vities from Table	e 3 ONLY)	
	lve continuous noise (ed on the A scale (e.g	_	reater than 75	NO (NV2 doe YES (NV2 ap	es not apply) plies, subject to r	ecords review)
b) Will project invo	lve entry into/survey (of cave?			2 do not apply) ² 2 applies, subjec	t to review of bat
c) If conducting pro	escribed burning (ac	tivity 23), estimated	acreage:	and tin	neframe(s) below	r; ■ N/A
STATE	SWARMING	WINTER	NON-W	INTER	PUP	
GA, KY, TN	Oct 15 - Nov 14	Nov 15 - Mar 31	Apr 1 - May 31,	Aug 1- Oct 14	☐ Jun 1 - Jul 3	1
VA	Sep 16 - Nov 15	☐ Nov 16 - Apr 14	Apr 15 - May 31	, Aug 1 – Sept 15	☐ Jun 1 - Jul 3	1
AL	Oct 15 - Nov 14	Nov 15 - Mar 15	Mar 16 - May 31	, Aug 1 - Oct 14	☐ Jun 1 - Jul 3	1
NC	Oct 15 - Nov 14	Nov 15 - Apr 15	Apr 16 - May 31	, Aug 1 - Oct 14	☐ Jun 1 - Jul 3	1
MS	Oct 1 - Nov 14	Nov 15 - Apr 14	Apr 15 - May 31	, Aug 1 – Sept 30	☐ Jun 1 - Jul 3	1
d) Will the project in	volve vegetation pilir	ng/burning? N	IO (SSPC4/ SHF7/SHF	8 do not apply)		
		<u> </u>	ES (SSPC4/SHF7/SHF	F8 applies, subject	to review of bat	records)
e) If tree removal (a	activity 33 or 34), est	imated amount:		○ac ○trees	●N/A	
STATE	SWARMING	WINTER	NON-WI	INTER	PUP	
GA, KY, TN	Oct 15 - Nov 14	Nov 15 - Mar 31	Apr 1 - May 31, /	Aug 1- Oct 14	Jun 1 - Jul 31	
VA	Sep 16 - Nov 15	☐ Nov 16 - Apr 14	Apr 15 - May 31,	, Aug 1 – Sept 15	Un 1 - Jul 31	1
AL	Oct 15 - Nov 14	Nov 15 - Mar 15	Mar 16 - May 31	, Aug 1 - Oct 14	Un 1 - Jul 31	1
NC	Oct 15 - Nov 14	Nov 15 - Apr 15	Apr 16 - May 31,	, Aug 1 - Oct 14	Un 1 - Jul 31	1
MS	Oct 1 - Nov 14	Nov 15 - Apr 14	Apr 15 - May 31,	, Aug 1 – Sept 30	Jun 1 - Jul 31	1
If warranted, does project have flexibility for bat surveys (May 15-Aug 15): MAYBE YES NO						
*** For PROJECT LEADS whose projects will be reviewed by a Heritage Reviewer (Natural Resources Organization only), STOP HERE . Click File/Save As, name form as "ProjectLead_BatForm_CEC-or-ProjectIDNo_Date", and submit with project information. Otherwise continue to Step 5. ***						
SECTION 2: REVIEW	W OF BAT RECORDS	(applies to project	ts with activities fro	om Table 3 ONL	Y)	
STEP 5) Review of	bat/cave records co	onducted by Herita	ge/OSAR reviewer	?		
• YES O NO (•	-			
Info below complete		3a				
ino below complete					Date	
	OSAR Rev				Date	
	_	I Zoologist (name)				Sep 24, 2021
Gray bat records: None Within 3 miles* Within a cave* Within the County						
Indiana bat records:		_	Within a cave*	Capture/roost to	_	the County
Northern long-eared bat records: None Within 5 miles* Within a cave* Capture/roost tree* Within the County						
Virginia big-eared bat records: None Within 6 miles* Within the County						
Caves: None wi	_	3 miles but > 0.5 mi	☐ Within 0.5 mi k	out > 0.25 mi*] Within 0.25 mi k	out > 200 feet*
Bat Habitat Inspection Sheet completed? NO YES						
Amount of SUITAB	LE habitat to be rem	oved/burned (may o	differ from STEP 4e)):	()ac	trees)* •N/A

	Project Review	Form - TVA Bat St	rategy (06/2019)				
STEP 6) Provide any additional no	_	•					
• • • • • • • • • • • • • • • • • • • •				Go to Step 13			
Notes from Bat Records Review (e.g.	, historic record; bats i	not on landscape d	uring action; DOT bridge su	rvey with negative results):			
STEPS 7-12 To be Completed by To	errestrial Zoologist	(if warranted):					
STEP 7) Project will involve:							
Removal of suitable trees within 0 NLEB hibernacula.).5 mile of P1-P2 India	ana bat hibernacul	a or 0.25 mile of P3-P4 India	ana bat hibernacula or any			
Removal of suitable trees within	10 miles of documente	ed Indiana bat (or v	vithin 5 miles of NLEB) hibe	rnacula.			
Removal of suitable trees > 10 m	iles from documented	I Indiana bat (> 5 m	niles from NLEB) hibernacul	a.			
Removal of trees within 150 feet	of a documented India	ana bat or northern	long-eared bat maternity ro	oost tree.			
Removal of suitable trees within 2	2.5 miles of Indiana ba	at roost trees or wit	hin 5 miles of Indiana bat ca	apture sites.			
Removal of suitable trees > 2.5 n	niles from Indiana bat	roost trees or > 5 r	miles from Indiana bat captu	re sites.			
Removal of documented Indiana	bat or NLEB roost tre	e, if still suitable.					
⊠ N/A							
STEP 8) Presence/absence surveys	were/will be condu	icted: O YES	● NO				
STEP 9) Presence/absence survey	results, on	○ NEC	GATIVE O POSITIVE	N/A			
STEP 10) Project ○ WILL ● WILL	. NOT require use of	Incidental Take in	the amount of	○ acres or ○ trees			
proposed to be used during the O	WINTER O VOLAN	IT SEASON ON	ON-VOLANT SEASON (a)	N/A			
STEP 11) Available Incidental Take	e (prior to accounting	g for this project) as of				
TVA Action	Total 20-year	Winter	Volant Season	Non-Volant Season			
9 Promote Economic Development							
STEP 12) Amount contributed to 1	STEP 12) Amount contributed to TVA's Bat Conservation Fund upon activity completion: \$ OR N/A						
TERRESTRIAL ZOOLOGISTS, after co Terrestrial Zoologists at end of form		, review Table 4, n	nodify as needed, and then	complete section for			
SECTION 3: REQUIRED CONSERVA	TION MEASURES						
STEP 13) Review Conservation Measoverride and uncheck irrelevant me				ject. If not, manually			
Did review of Table 4 result in <u>ANY</u> rer	naining Conservation	Measures in RED?					

YES (STOP HERE; Submit for Terrestrial Zoology Review. Click File/Save As, name form as "ProjectLead_BatForm_CEC-or-

ProjectIDNo_Date", and submit with project information).

NO (Go to Step 14)

Table 4. TVA's ESA Section 7 Programmatic Bat Consultation Required Conservation Measures

The Conservation Measures in Table 4 are automatically selected based on your choices in Tables 2 and 3 but can be manually overridden, if necessary. To Manually override, press the button and enter your name.

Manual Override

Name: Rob Stinson

Check if Applies to Project	Activities Subject To Conservation Measure	Conservation Measure Description
		NV1 - Noise will be short-term, transient, and not significantly different from urban interface or natural events (i.e., thunderstorms) that bats are frequently exposed to when present on the landscape.
		SSPC2 - Operations involving chemical/fuel storage or resupply and vehicle servicing will be handled outside of riparian zones (streamside management zones) in a manner to prevent these items from reaching a watercourse. Earthen berms or other effective means are installed to protect stream channel from direct surface runoff. Servicing will be done with care to avoid leakage, spillage, and subsequent stream, wetland, or ground water contamination. Oil waste, filters, other litter will be collected and disposed of properly. Equipment servicing and chemical/fuel storage will be limited to locations greater than 300-ft from sinkholes, fissures, or areas draining into known sinkholes, fissures, or other karst features.
		SSPC5 (26a, Solar, Economic Development only) - Section 26a permits and contracts associated with solar projects, economic development projects or land use projects include standards and conditions that include standard BMPs for sediment and contaminants as well as measures to avoid or minimize impacts to sensitive species or other resources consistent with applicable laws and Executive Orders.
		L2 - Evaluate the use of outdoor lighting during the active season and seek to minimize light pollution when installing new or replacing existing permanent lights by angling lights downward or via other light minimization measures (e.g., dimming, directed lighting, motion-sensitive lighting).

¹Bats addressed in consultation (02/2018), which includes gray bat (listed in 1976), Indiana bat (listed in 1967), northern long-eared bat (listed in 2015), and Virginia big-eared bat (listed in 1979).

Hide All Unchecked Conservation Meas	sures
--------------------------------------	-------

HI	DI	

○ UNHIDE

Hide Table 4 Columns 1 and 2 to Facilitate Clean Copy and Paste

HIDE

○ UNHIDE

NOTES (additional info from field review, explanation of no impact or removal of conservation measures).

Project Review Form - TVA Bat Strategy (06/2019)	

Project Review Form - TVA Bat Strategy (06/2019)

STEP 14) Save completed form (Click File/Save As, name form as "ProjectLead_BatForm_CEC-or-ProjectIDNo_Date") in

project environmental documentation (e Submission of this form indicates that Pr		send a copy of form to	<u>batstrategy@tva.gov</u>
Brooke Davis	(name) is (or will be mad	le) aware of the requirem	ients below.
 Implementation of conservation m programmatic bat consultation. TVA may conduct post-project mode impacts to federally listed bats. For Use by Terrestrial Zoologist Only			
	Project Lead/Contact (name)	Brooke Davis	has been informed of
any relevant conservation measures an	d/or provided a copy of this for	n.	
For projects that require use of Take and that Project Lead/Contact has been info	inied that project will result in t	ise of incidental rake	ac C trees
and that use of Take will require \$	contribution	to TVA's Conservation Fu	nd upon completion of activity

For Terrestrial Zoology Use Only. Finalize and Print to Noneditable PDF.

(amount entered should be \$0 if cleared in winter).

ATTACHMENT 3 Agency Correspondence

3-A

Tennessee Historical Commission



TENNESSEE HISTORICAL COMMISSION

STATE HISTORIC PRESERVATION OFFICE 2941 LEBANON PIKE NASHVILLE, TENNESSEE 37243-0442 OFFICE: (615) 532-1550

www.tnhistoricalcommission.org

March 14, 2022

Mr. James W. Osborne Jr. Tennessee Valley Authority 400 West Summit Hill Drive Knoxville, TN 37902

RE: TVA / Tennessee Valley Authority, Rialto Industrial Park Rough Grading for Stormwater Drainage Improvement (35.6081, -89.6258), CID 82495, Covington, Tipton County, TN

Dear Mr. Osborne:

In response to your request, we have reviewed the cultural resources survey report and accompanying documentation submitted by you regarding the above-referenced undertaking. Our review of and comment on your proposed undertaking are among the requirements of Section 106 of the National Historic Preservation Act. This Act requires federal agencies or applicants for federal assistance to consult with the appropriate State Historic Preservation Office before they carry out their proposed undertakings. The Advisory Council on Historic Preservation has codified procedures for carrying out Section 106 review in 36 CFR 800 (Federal Register, December 12, 2000, 77698-77739).

I the final report please address the following comments:

- 1. Section 5.1.3 cites the 2009 TN SHPO Standards and Guidelines for Archaeological Resource Management Studies. The 2018 standards should be cited and adhered to.
- 2. In the methodology section (5.1.3) please explain if and how the reduced surface visibility due to snowfall affected the survey methods.

Considering the information provided, we concur that no historic properties eligible for listing in the National Register of Historic Places will be affected by this undertaking. If project plans are changed or archaeological remains are discovered during project construction, please contact this office to determine what further action, if any, will be necessary to comply with Section 106 of the National Historic Preservation Act. Questions or comments may be directed to Jennifer Barnett (615) 687-4780, Jennifer.Barnett@tn.gov.

Your cooperation is appreciated.

Sincerely,

E. Patrick McIntyre, Jr. Executive Director and

State Historic Preservation Officer

E. Patrick M. Flotyre, J.

EPM/jmb