## **Species Conclusions Table**

Project Manager: Anna Lawston	Project Name: Avanti
Date: 12/6/2017	Project Number: 2017-00637

Project Description: To construct a commercial development within and exisitn Industrial park

## Species Under the Jurisdiction of FWS:

Species/Resource		ESA Section 7 / Eagle		
Name	Conclusion	Act Determination	Species Info / Habitat Description	Notes / Determination
Northern long-eared bat (Myotis septentrionalis)	No suitable habitat present	No effect	"Northern long-eared bats spend winter hibernating in caves and mines, called hibernacula. They typically use large caves or mines with large passages and entrances; constant temperatures; and high humidity with no air currents. Specific areas where they hibernate have very high humidity, so much so that droplets of water are often seen on their fur. Within hibernacula, surveyors find them in small crevices or cracks, often with only the nose and ears visible. During summer, northern long-eared bats roost singly or in colonies underneath bark, in cavities, or in crevices of both live and dead trees. Males and non-reproductive females may also roost in cooler places, like caves and mines. This bat seems opportunistic in selecting roosts, using tree species based on suitability to retain bark or provide cavities or crevices. It has also been found, rarely, roosting in structures like barns and sheds."	Relying on the findings of the 1/5/2016 Programmatic Biological Opinion for Final (9d) Rule on the Northern Long-eared Bat and Activities Excepted from Take Prohibitions to fulfill our project-specific section 7 responsibilities. There will be treeing clearing on the project site and in assocaition with grading for buildings and parking
Dwarf wedge mussel (Alasmidonta heterodon)	No suitable habitat present	no effect	"The dwarf wedge mussel lives in shallow to deep rivers and creeks of various sizes where the current is slow to moderate. This mussel lives on muddy sand, sandy, and gravel stream bottoms that are nearly silt free."	there is no suiitable habitat located on the project site where the stream impacts will occur. While there may potentially be mussels located in the stream channel adjacent to the project site there are no impacts proposed to the large channel. In addtion, appropriate E&S controls and standards will be required to reduces seditmentation deposits and distrubance to the channel.

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Harperella (Ptilimnium nodosum) No suitable habitat	not likely to adversely effect	Harperella "[o]ccurs in three habitat types: rocky/gravelly shoals or cracks in bedrock outcrops beneath the water surface in clear, swift- flowing streams (usually in microsites that are sheltered from rapidly moving water); edges of intermittent pineland ponds or low, wet savannah meadows on the Coastal Plain; and granite outcrop seeps. In all habitat-types, the species occurs in a narrow range of water depths; it is intolerant of deep water and of conditions that are too dry. However, the plants readily tolerate periodic, moderate flooding - something to which few potential competitors are adapted. P. nodosum seeds generally germinate during short- duration spring floods and the plants have completed their life cycle by late summer or fall, just as water levels are lowest and competing species are moving in."* (NatureServe. 2014. NatureServe Explorer: An online encyclopedia of life [web application]. Version 7.1. NatureServe, Arlington, Virginia. Available http://explorer.natureserve.org. (Accessed: September 25, 2014 ).	The project site is heavily disturbed due to development that has occured surrounding the project site therefore it does not appeat there is suiitable habitat located on the project site where the stream impacts will occur.		
Eagles (Haliaeetus leucocephalus)					

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Eagle Nests	Unlikely to disturb nesting bald eagles	No Eagle Act permit required		no nest present			
Eagle Concentration Areas	Does not intersect with bald eagle concentration area	No Eagle Act permit required		no nest or eagles present			
Critical Habitat							
N/A	No critical habitat present						
Other (species not lis	Other (species not listed above)						
Species Under the Jurisdiction of NOAA/NMFS							
Essential Fish Habitat	n/a						
Anadromous Fish Use Area	n/a						
Subaquatic Vegetation	n/a						
HAPC Sandbar Shark	n/a						
Atlantic Sturgeon	n/a						

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