



**USFS Ecological IAG – Aquatic Fragmentation Work Group  
Conference Call Summary – July 18, 2003**

**Revision 7-22-03**

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Henry agreed to modify the species list and resend it to the group (see Table 1). Malcolm has begun to gather some general information or to identify sources of information for each of the species. Patric offered to share USFWS information with Malcolm on this effort. Based on the amount of information available, the group will prioritize the level of detail needed for each species.

***Habitat Fragmentation GIS Maps***

Henry noted that work on developing the “habitat fragmentation GIS maps” that incorporate both APC and USFS data doesn’t appear to be moving forward. Henry will talk with Jim Crew to develop a plan for getting Donald Moore (APC) and Stanley Glover (USFS) “together” to share GIS data.

***General Discussions***

Sara suggested that the general goal of habitat fragmentation analysis efforts ought to be to develop an adaptive management plan that will protect/enhance species that are present and possibly reintroduce species that were historically present in the Warrior basin.

Sara also requested that part of the habitat fragmentation analysis relate to the possible impact of invasive species (Asiatic clam, striped bass, and zebra mussels). If aquatic fragmentation is modified, will invasive species impact native species that are currently un-impacted? She also asked to include ways to reduce the threat of invasions and impacts to native species.

Henry and Malcolm will review the proposed timeline (Table 2) to see if modifications need to be made and to identify general dates where USFS and USFWS need to make input.

***Conclusion and Next Meeting***

Henry and Malcolm will contact USFS and USFWS representatives to schedule the next meeting. Meeting minutes will be posted on Alabama Power’s Hydro Relicensing website ([www.southerncompany.com/alpower/hydro](http://www.southerncompany.com/alpower/hydro)).

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**Table 1. Potential Species to evaluate for the Warrior Aquatic Habitat Fragmentation Study**

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<b>Scientific Name</b>	<b>Common Name</b>	<b>Type</b>	<b>Federal Status</b>	<b>USFS Status</b>	<b>State Status</b>	<b>State Rank</b>	<b>Global Rank</b>	<b>Priority of Review Comments</b>
Necturus alabamensis	black warrior waterdog	Amphibians	Candidate	Sensitive		S2	G2	Proposed Threatened
Etheostoma douglasi	Tuscaloosa darter	Fish		Sensitive		S2	G2	
Etheostoma phytophilum	rush darter	Fish		Sensitive		S1	G1	
Etheostoma bellator	Warrior darter	Fish		Sensitive		S2	G2	
Etheostoma zonistum	blueface darter	Fish	Now being described					
Elliptio arca	Alabama spike	Mussels		Sensitive		S2	G3	
Lampsilis altilis	fine-lined pocketbook	Mussels	Threatened		SP	S2	G2	
Lampsilis perovalis	orange-nacre mucket	Mussels	Threatened		SP	S1	G2	
Medionidus acutissimus	Alabama moccasinshell	Mussels	Threatened		SP	S1	G1	
Pleurobema furvum	dark pigtoe	Mussels	Endangered		SP	S1	G1	
Ptychobranhus greenii	triangular kidneyshell	Mussels	Endangered		SP	S1	G1	
Strophitus subvexus	southern creekmussel	Mussels		Sensitive		S2	G3	
Villosa nebulosa	Alabama rainbow	Mussels		Sensitive		S3	G3	
Graptemys pulchra	Alabama map turtle	Reptiles			SP	S3	G4	
Sternotherus depressus	flattened musk turtle	Reptiles	Threatened		SP	S2	G2	

**Species to be added to list 7/18/2003**

Percina sp. - undescribed	bridled darter	fish						Undescribed species - medium sized river species Determine if this is of Rare occurrence or a bad data point
Obovaria jacksoniana	southern hickorynut	mussell						
(Leptoxis plicata)	plicate rocksnail	snail						Locust Fork Drainage - may have reintroduction potential
(Pleurocera annularis)	ringed hornsnail	snail						

**Species to perform investigation of "Historic Presence" in Upper Warrior Drainage.**

(Pleurobema perovatum)	ovate clubshell
(Medionidus parvulus)	Coosa moccasinshell
upland combshell	(Epioblasma metastriata)

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Table 2. Smith Watershed Aquatic Habitat Fragmentation Timeline	2003							2004		
	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB
1 Identify the Project Study Area	<p>[REDACTED]</p> <p>This was discussed at the May 8, 2003 meeting - Group will focus on the Smith Watershed.</p>									
2 Identify blockages and categorize them	<p>[REDACTED]</p> <p>APC has begun this process. Donald Moore and Stanley Glover will coordinate to add USFS GIS information to this analysis.</p>									
3 Develop a list of species of concern	<p>[REDACTED]</p> <p>APC recommended that we use only T&amp;E species. USFS provided a list of additional species that they are concerned about.</p>									
4 Develop historical and current distributions for these species	<p>[REDACTED]</p> <p>Malcolm Pierson will coordinate this activity based on the species that the group identifies</p>									
5 Identify areas of “concern”	<p>[REDACTED]</p> <p>In October the Group will begin to identify areas of concern and areas where restoration / mitigation efforts can make a difference.</p>									
6 Identify Range of Alternatives	<p>[REDACTED]</p> <p>The Group will also identify a range of alternatives to consider as part of restoration / mitigation efforts</p>									
7 Identify PM&E measures	<p>[REDACTED]</p> <p>APC will determine what PM&amp;E measures that they want to include in the License Application. This does not prevent other PM&amp;E measures from being considered as Alternatives for the EA analysis.</p>									