

Project Title

Inventory and Prioritization of Impaired Sites in the Yellow River Watershed in Alabama and Florida.

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ABSTRACT

The Yellow River is a large, softwater river which flows through Alabama and Florida into Pensacola Bay and the Gulf of Mexico. Historically considered a relatively undisturbed system, the Yellow River is increasingly impacted by human population growth and development. Excessive sedimentation resulting from bank instability and unpaved road crossings is believed to be the primary factor causing degradation and imperilment of river habitat and biological communities in the basin.

This project was divided into two phases. The goal of Phase 1 was to identify areas contributing to habitat degradation and impairment in the Yellow River Basin as an initial step in conserving and restoring natural function and biodiversity throughout the system. The goal of Phase 2 was restore one of the sites identified as a high-priority restoration location. The objectives of this study were to (1) inventory and assess the magnitude of habitat degradation and fish passage impacts within the river corridor and at unpaved road crossings throughout the Yellow River Basin; (2) summarize impacts and restoration potential at each impaired location; (3) develop a prioritized basin restoration plan for state, federal, and local agencies and stakeholders for implementing conservation and restoration efforts in the basin; and (4) restore one of the sites identified as a high-priority restoration location during the assessment. We used a stream severity index developed by the U. S. Fish and Wildlife Service to characterize impairments within the corridor of the Yellow River and its major tributaries. We also used a sediment risk index (SRI) to characterize potential for excessive sediment loading at unpaved road stream crossings throughout the basin. We estimated the number of impoundments by reviewing aerial photographs of land use in the basin. Lastly, we used standard river corridor restoration techniques which have been employed successfully elsewhere in the Yellow River and nearby river drainages.

For Phase I, we assessed approximately 209 river miles and identified 140 impaired river corridor sites and identified moderate or high degrees of sedimentation risk at 339 unpaved road crossings throughout the basin. Site-level erosion and sedimentation was by far the predominant factor impairing all sites. These risk factors commonly resulted in degradation or loss of instream habitat and connectivity at site locations as well as up- and downstream of impaired sites. We estimated 2,890 possible man-made (86%) and natural impoundments (14%) which could result likely resulted in barriers to fish passage and further loss of in-stream habitat and connectivity. Impaired river corridor and unpaved road sites were often clustered near each other, affected by a common feature such as a single unpaved road, and were at or near priority ecological resources and designations throughout the basin. Based on these patterns, we defined seven “Focal Areas” to maximize restoration potential while minimizing the cost for completing restoration actions. We recommend focusing future aquatic restoration efforts in the Yellow River Basin in these Focal Areas, particularly at unpaved roads which impair a number of streams they cross and nearby impaired river corridors.

Based on the results and recommendations of Phase I, we restored site co-0610-001 in the Conecuh National Forest Focal Area for Phase II of the project. This site, referred to locally as “Dripping Rock”, was characterized by a denuded and breached riverbank and an unpaved road which terminated at the site. It is also directly adjacent to one of five potential Gulf sturgeon spawning sites and is the only site from which sturgeon eggs have been documented in the Yellow River. Phase I identified this site as contributing excessive sedimentation to the Yellow River and this spawning area. We restored the site by grading, filling, stabilizing, and revegetating the unpaved road, and contouring, stabilizing, and revegetating the riverbank.

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INTRODUCTION

Habitat degradation is a primary factor in the decline of biodiversity in aquatic ecosystems of the southeastern United States. Many of the rivers and streams in this region, which contain among the highest aquatic biodiversity in North America, have been impacted by habitat degradation, alteration, conversion, and loss. Excessive sedimentation is among the leading nonpoint source pollutants impairing these rivers, including in the Gulf Coastal Plain ecoregion (Abell et al. 2000). Anthropogenic activities such as urbanization, agriculture and silviculture, road construction, removal of riparian vegetation, and channelization increase sedimentation (Karr et al 1986, Rabini and Smale 1995) and have long been recognized as factors contributing to the stream degradation (Berkman and Rabini 1987, Poff and Allen 1995, Marschall and Crowder 1996). Excessive sedimentation commonly results in the loss of in-stream habitat heterogeneity and quality by filling, increasing bank destabilization and subsequent bank erosion (Rosgen 1996). This continuing sedimentation further degrades stream channel morphology, often resulting in widening of the stream channel and further loss of in-stream habitats (Rosgen 1996).

Unpaved roads are increasingly recognized as a primary vector for excessive sedimentation in rivers and streams in this ecoregion (USEPA 2002). Improperly sized and positioned culverts and poor vegetation buffers of ditches and outlets commonly cause road erosion and alteration of overland and in-stream flow patterns, further facilitating sedimentation of streams at road crossings (Grayson et al. 1993, Forman and Alexander 1998, Jones et al. 2000). This frequently results in barriers to fish passage and conversion of in-stream habitat from lotic to lentic conditions upstream from affected road crossings (Forman and Alexander 1998). Excessive sediment can impact riverine biota by limiting the light availability for photosynthetic phytoplankton and macrophytes and by filling interstitial spaces in the substrate,

increasing stress and mortality to eggs, larvae, adults of macroinvertebrate and fish communities (Wilbur 1983, Morton 1986, Waters 1995, Marschall and Crowder 1996). Increased turbidity from excessive sedimentation can also decrease reproductive efficiency and interfere with filter-feeding mechanisms of invertebrates and fishes (Page and Smith 1970, Wilbur 1983, McCabe and Sandretto 1985).

One of the four rivers discharging into Pensacola Bay, the Yellow River is a 110-mi long, sandy, softwater (i.e., blackwater) river which flows through Alabama and Florida in the Gulf Coastal Plain ecoregion, with a watershed area of 1,372 mi² and average annual flow of 1,181 cfs (Fig. 1) (Seaman 1985, Thorpe et al. 1997). The Yellow River watershed is noted for relatively high fish and mollusk biodiversity (Seaman 1985, Thorpe et al. 1997). Although historically considered a fairly undisturbed system, the Yellow River is being impacted by sedimentation resulting from river bank instability and unpaved road crossings, as well as a variety of other nonpoint sources of pollution (Thorpe et al. 1997). These factors have increasingly contributed to habitat degradation, been identified as impacting federally listed and candidate species, and increasingly threaten aquatic biodiversity in the basin (Thorpe et al. 1997).

The Yellow River is classified as a “Softwater Stream” in Florida's Comprehensive Wildlife Conservation Strategy, or CWCS (FWC 2005). Softwater Streams are one among the most imperiled habitats identified in the CWCS and one of the six habitats chosen for the state's Wildlife Legacy Initiative goals. The aforementioned impacts affecting this system are “High Ranking Sources of Stress” to softwater streams, categorized under the headings “surface water withdrawal”, “conversion to agriculture”, nutrient loads – agriculture”, and “roads” in the CWCS.

Figure 1. The Yellow River Basin in Alabama and Florida.



This project was divided into two phases. The goal of Phase I was to identify areas contributing to habitat degradation and impairment in the Yellow River Basin as an initial step in conserving and restoring natural function and biodiversity throughout the system. The goal of Phase II was restore one of the sites identified as a high-priority restoration location. The objectives of this study were to (1) inventory and assess the magnitude of habitat degradation and fish passage impacts within the river corridor and at unpaved road crossings throughout the Yellow River Basin; (2) summarize impacts and restoration potential at each impaired location; (3) develop a prioritized basin restoration plan for state, federal, and local agencies and stakeholders for implementing conservation and restoration efforts in the basin; and (4) restore one of the sites identified as a high-priority restoration location during the assessment.

METHODS

Inventory and Prioritization

A quantitative and qualitative approach was used to characterize potential impairments within the river corridor and at unpaved road crossing sites of the mainstem and tributaries of the Yellow River Basin. Standard methods and equipment for collecting field data followed the methodologies described below. Digital photographs, GPS coordinates using a Garmin GPSmap 76CS, and field notes were recorded at all impaired sites. All field data were recorded using a Trimble GeoXT handheld computer with Terrasync software and deposited into Microsoft Access and Excel for data management and analysis, respectively.

River Corridor Assessment

We identified potential impacts to the corridor of the Yellow River and its tributaries in public waters traversable by motor-boat or canoe. We identified potentially impaired river corridor

sites based on the observation of one or a combination of risk factors described below. Once a site was identified, we used methods developed by the U.S Fish and Wildlife Service, Panama City Ecological Services and Fisheries Resource Office, to calculate the severity of impacts within the river corridor at the site (USFWS 2006). The methodology is comprised of a combination of formalized quantitative and qualitative measurements for assessing the ecological condition of stream corridors (NRCS 2001) modified by the USFWS for drainages in the Gulf Coastal Plain ecoregion. This method has been used by the USFWS to characterize river corridor condition in other drainages of Florida and Alabama (USFWS 2005a).

Specific definitions and calculations described below are detailed in USFWS (2005a) and USFWS (2006). This method consists of ranking 11 “risk factors” which are assigned a score based on observed and measured river corridor characteristics at a given location (Table 1), including the Bank Erosion Hazard Index (BEHI) (Rosgen 1996). There are four scores categories for each risk factor ranging from “0” to “1.5”, in 0.5 increments, with higher scores indicating higher impairment. The sum of scores assigned for the 11 risk factors is termed the “Severity Score” index, which ranges from 0 – 16.50. We subjectively assigned each Severity Score into three categories of increasing impairment: “Low” (scores 0 – 4.00), “Moderate” (scores 4.25 – 7.25), and “High” (scores 7.50 – 16.50) for comparison purposes.

Unpaved Road Crossing Assessment

We identified potential impacts of all known publically accessible unpaved roads where they crossed a given river or stream throughout the Yellow River Basin. We traveled to each unpaved road crossing and calculated potential impacts using the Sediment Risk Index, or SRI (Witmer 2009). The SRI is a combination of quantitative and qualitative measurements developed to characterize the extent of sediment and other impacts of unpaved road crossings to aquatic

Table 1. Severity score index criteria for river corridor sites.

Risk Factor	0	0.5	1	1.5	Max Possible Score
Channel stability	Excellent	Good	Fair	Poor	1.5
Channel alteration	None	Historic, Mostly Recovered	In Recovery	Recent, No Recovery	1.5
Bank erosion	Not Eroding	Historic	Active	Mass-wasting	1.5
BEHI	Low-Very Low	Moderate	High	Extreme-Very High	1.5
Local non point source pollution	No Evidence	Slight	Moderate Potential	Obvious Sources	1.5
Shoring structures	Not Present			Present	1.5
Pipe discharge	Not Present			Present	1.5
Water odors	Not Present			Present	1.5
Fish passage barrier	Not Present			Present	1.5
Riparian buffer width	0	0.25	0.5	0.75	
Right bank	100 ⁺ ft	50-99ft	30-49ft	0-29ft	0.75
Left bank	100 ⁺ ft	50-99ft	30-49ft	0-29ft	0.75
Floodplain access	0	0.25		0.75	
Right bank	Full	Partial		None	0.75
Left bank	Full	Partial		None	0.75

resources in north Florida and the Gulf Coastal Plain ecoregion (USFWS 2005a, Witmer 2009, Witmer et al. 2009).

Specific definitions and calculations described below are detailed in Witmer (2009). This method consist of ranking 12 “risk factors” which are assigned a score based on observed and measured unpaved road characteristics at a given river or stream crossing (Table 2). There are three score categories for each risk factor, “Low Risk” (5), “Moderate Risk” (3), and “High Risk” (1), with higher scores indicating higher risk of impairment. Scores for Outlet and Drainage systems at each crossing were calculated using the Unpaved Road Outlet and Ditch Scoring Criteria (Table 3). The subtotal of the criteria for outlets and drainage systems were assigned a numerical value. Those numerical values were then incorporated as the score for Outlet and Drainage systems, respectively, and assigned one the three risk factor score categories as described above. The sum of scores assigned for the 12 risk factors is termed the SRI for that location. We assigned each SRI into three categories of increasing impairment according to Witmer (2009): “High” (scores 12 – 36), “Moderate” (scores 37 – 44), and “Low” (scores 45 – 60).

Fish Passage Barriers

We characterized the potential for each impaired river corridor and unpaved road site to be a barrier to fish passage using the “River Corridor” assessment methods described above. However, we also attempted to identify other fish passage barriers not identified in the field. We characterized the potential for fish passage barriers within the entire drainage by reviewing aerial photography available via Google Earth (Google Earth 2010). We considered a stream site to be impounded if (1) review of aerial photography indicated a relatively large standing water body, and (2) that water body occurred within the course of a river or stream. We categorized each

Table 2. Sediment Risk Index (SRI) scoring criteria for unpaved road crossing sites.

Risk factor	Low Risk	Moderate Risk	High Risk
	5	3	1
Upstream channel morphology	A B C E Wetland	DA Beaver Dam	D F G Ponded
Downstream channel morphology	A B C E Wetland	DA Beaver Dam	D F G Ponded
Downstream channel/bank alteration	Natural	Minor or Partial	High
Upstream culvert skew angle (worst)	$\leq 5^\circ$	$5^\circ \leq x \leq 30^\circ$	$\geq 30^\circ$
Crossing fill condition (dominant)	Good/vegetated	Fair/rip-rap	Poor/bare soil
Crossing inlet/outlet condition	No impairment	Sediment islands/scouring	Blocked
Potential eroded volume (mean)	$\leq 21 \text{ y}^3$	$21 \text{ y}^3 \leq x \leq 40 \text{ y}^3$	$\geq 40 \text{ y}^3$
Soil K factor	≤ 0.20	$0.21 \leq x \leq 0.40$	≥ 0.40
Road approach slope (mean)	$\leq 2.0\%$	$2.1\% \leq x \leq 4.0\%$	$\geq 4.0\%$
Road approach surface material	All aggregate Or 1 Approach: All sand/clay 1 Approach: All aggregate	All sand/clay Or 1 Approach: All aggregate 1 Approach: All native soil	All native soil Or 1 Approach: All sand clay 1 Approach: All native soil
Outlet system ^a	Improved	Partially improved	Unimproved
Drainage system ^a	Improved	Partially improved	Unimproved

a. Referencing calculations made utilizing Table 3.

Table 3. Unpaved road outlet and ditch scoring criteria.

Outlet ID				Score	Ditch ID				Score	
US	Left outlet	Vegetated	Rip-rap	Synthetic	1	Left ditch	Vegetated	Rip-rap	Synthetic	1
		Bare soil	Concrete	Other	0		Bare soil	Concrete	Other	0
	Right outlet	Vegetated	Rip-rap	Synthetic	1	Right ditch	Vegetated	Rip-rap	Synthetic	1
		Bare soil	Concrete	Other	0		Bare soil	Concrete	Other	0
DS	Left outlet	Vegetated	Rip-rap	Synthetic	1	Left ditch	Vegetated	Rip-rap	Synthetic	1
		Bare soil	Concrete	Other	0		Bare soil	Concrete	Other	0
	Right outlet	Vegetated	Rip-rap	Synthetic	1	Right ditch	Vegetated	Rip-rap	Synthetic	1
		Bare soil	Concrete	Other	0		Bare soil	Concrete	Other	0
Improved outlet system				Sum:	_____	Improved drainage system	Sum			
				If sum= 4, 2, or 0	+1		If sum= 4, 2, or 0			
				If sum = 1	+2		If sum = 1			
				If sum= 3	+0		If sum= 3			

impoundment as either “man-made” or “natural”. An impoundment was considered man-made if it (1) occurred directly upstream or downstream of a road crossing, (2) was impounded by a visible dam, typified by a long, straight bank shape on the downstream end of the impoundment, and/or (3) had visible human-based land use or features (e.g., cleared land with a visible pier) in the immediate vicinity of the impoundment. An impoundment was considered natural if it occurred within the course of a river or stream but lacked the features of sites categorized as man-made.

Site Prioritization

We subjectively prioritized impaired river corridor and unpaved road sites for restoration by identifying patterns in the location and severity of impairments to each other and priority ecological resources and designations as determined by the states of Alabama and/or Florida and the federal government. These patterns were generally identified by overlaying impaired sites, priority resources, and designations within a Geographic Information Systems (GIS) environment. Geospatial GIS data we used included Gulf sturgeon (*Acipenser oxyrinchus desotoi*) critical habitat (USFWS 2003); Gulf sturgeon spawning sites in the Yellow River Basin (USFWS 2001); collection localities of five mussels which are proposed candidates for protection under the Endangered Species Act, hereafter referred to as “candidate mussels” (USFWS 2009); watersheds containing rare and imperiled fish in Florida (FWC 2003); priority wetlands habitats in Florida (FWC 1989); special outstanding Florida waters (FWC 1996); rare and imperiled fishes in Alabama (Mirarchi et al. 2004); and waters impaired under the Clean Water Act Section 303(d) in Florida and Alabama (FDEP 1998, ADEM 2008). We used geology, land cover, and land use (Florida only; land use in Alabama information was unavailable during the during the study period) to help identify physical characteristics which

might influence site impairments in the basin (FDEP 2001, GSA 2003, Homer et al 2005, UFGC 2007). Aerial photography available via Google Earth was also used to interpret site-level impacts within the broader landscape (Google Earth 2010).

Site Restoration

We selected a site for on-the-ground restoration based on a combination of factors including (1) river corridor (severity scale) and/or unpaved road crossing (Sediment Risk Index) ranking as developed herein during Phase I of the study; (2) ecological resources potentially affected by site-specific impairments; (3) optimizing the benefit to ecological resources by restoring the site; (4) willingness of land owner(s) to collaborate in the restoration (if applicable); (5) total cost of restoration; and (6) other factors such as logistics, permit requirements, etc. In addition, the U.S. Fish and Wildlife Service, Panama City Field Office agreed to develop technical plans to guide the restoration upon selection of the site. Although restoration methods vary according to site-specific impairments, we used standard methods for restoring unpaved roads in the Gulf Coastal Plan Ecoregion (USFWS 2005b) and river corridors (FISRWG 1998) as the template for designing technical restoration plans for the selected site.

RESULTS

Inventory and Prioritization

The Yellow River and its tributaries drain primarily over residuum geology (i.e., an accumulation or rock debris formed by weathering and remaining essentially in place after all but the least soluble constituents have been removed) and sand in Alabama (Fig. 2); whereas it drains primarily over medium-fine sand and silt and sandy-clay and clay in Florida (Fig. 3). The Yellow River Drainage flows through primarily forested and hay/pasture land (Fig. 4). Land use

within Yellow River Drainage in Florida was predominately public/semi-public and institutional (e.g., Eglin Air Force Base) (Fig. 5). We identified 2,890 possible man-made (86%) and natural impoundments (14%) which could result in barriers to fish passage in the Yellow River Basin (Fig. 6). There were 1,607 impoundments in Alabama, comprised of 1,357 man-made and 250 natural impoundments. There were 1,283 impoundments in Florida, comprised of 1,140 man-made and 143 natural impoundments.

River Corridor and Unpaved Road Crossing Assessments

We assessed river corridor impairments of approximately 209 river miles of the mainstem of the Yellow River and its tributaries (Table 4). We identified 140 river corridor sites with “Low-”, “Moderate-”, and “High-” ranked impairments throughout the basin (Table 5, Appendix A), with 39 sites located in Alabama (Table 6) and 101 sites located in Florida (Table 7). The majority of the river corridor impaired sites were identified within Florida because rivers and streams in Alabama were generally too small traverse via motor-boat or canoe. We identified 339 unpaved road crossing sites with “Low-”, “Moderate-”, and “High-” ranked impairments throughout the basin (Table 8, Appendix B), with 184 sites located in Alabama (Table 9) and 155 sites located in Florida (Table 10). In total, 479 river corridor and unpaved road crossing impaired sites were identified and assessed throughout the Yellow River Basin (Fig. 7).

Figure 2. Geology of the Yellow River Basin, Alabama.

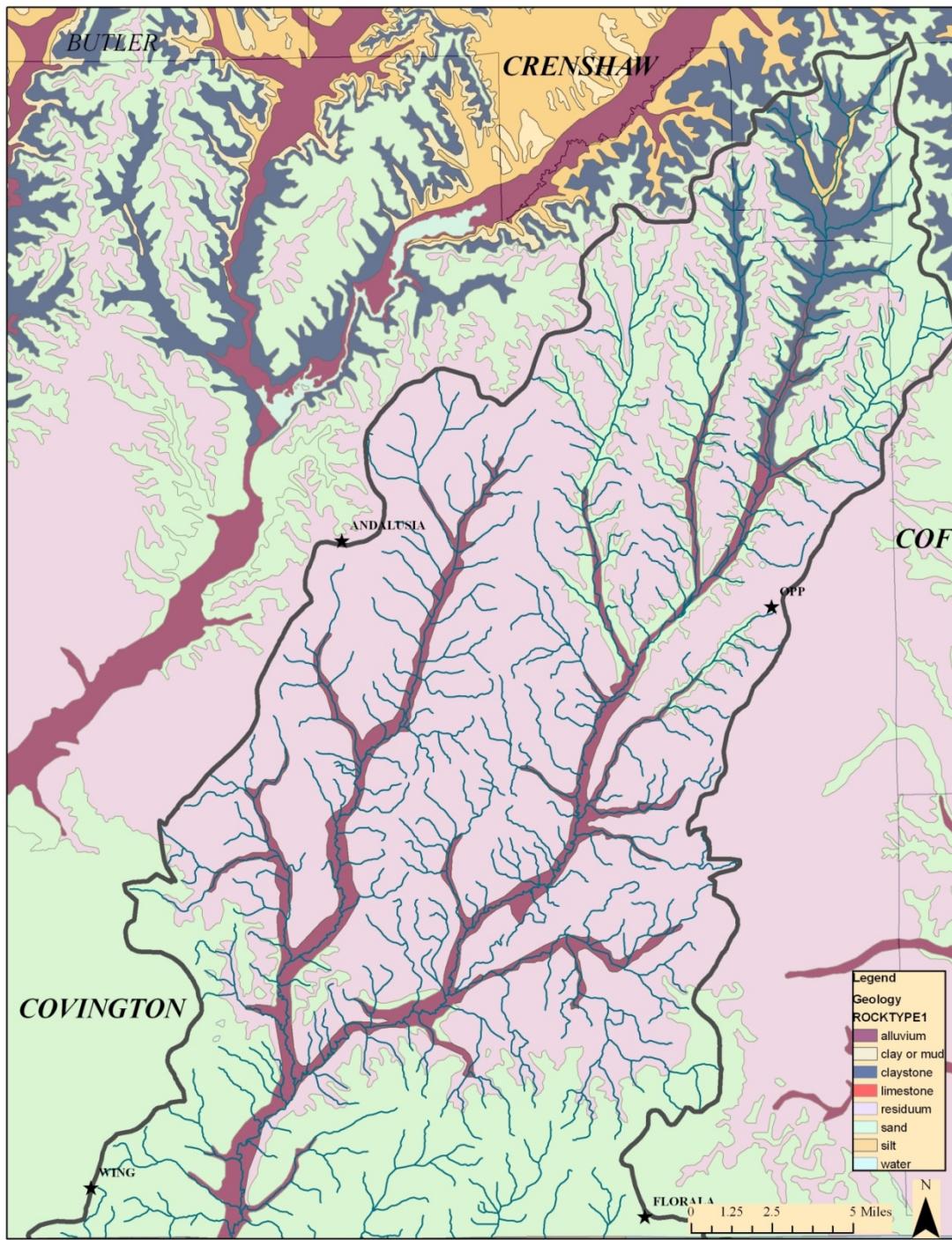


Figure 3. Geology of the Yellow River Basin, Florida.

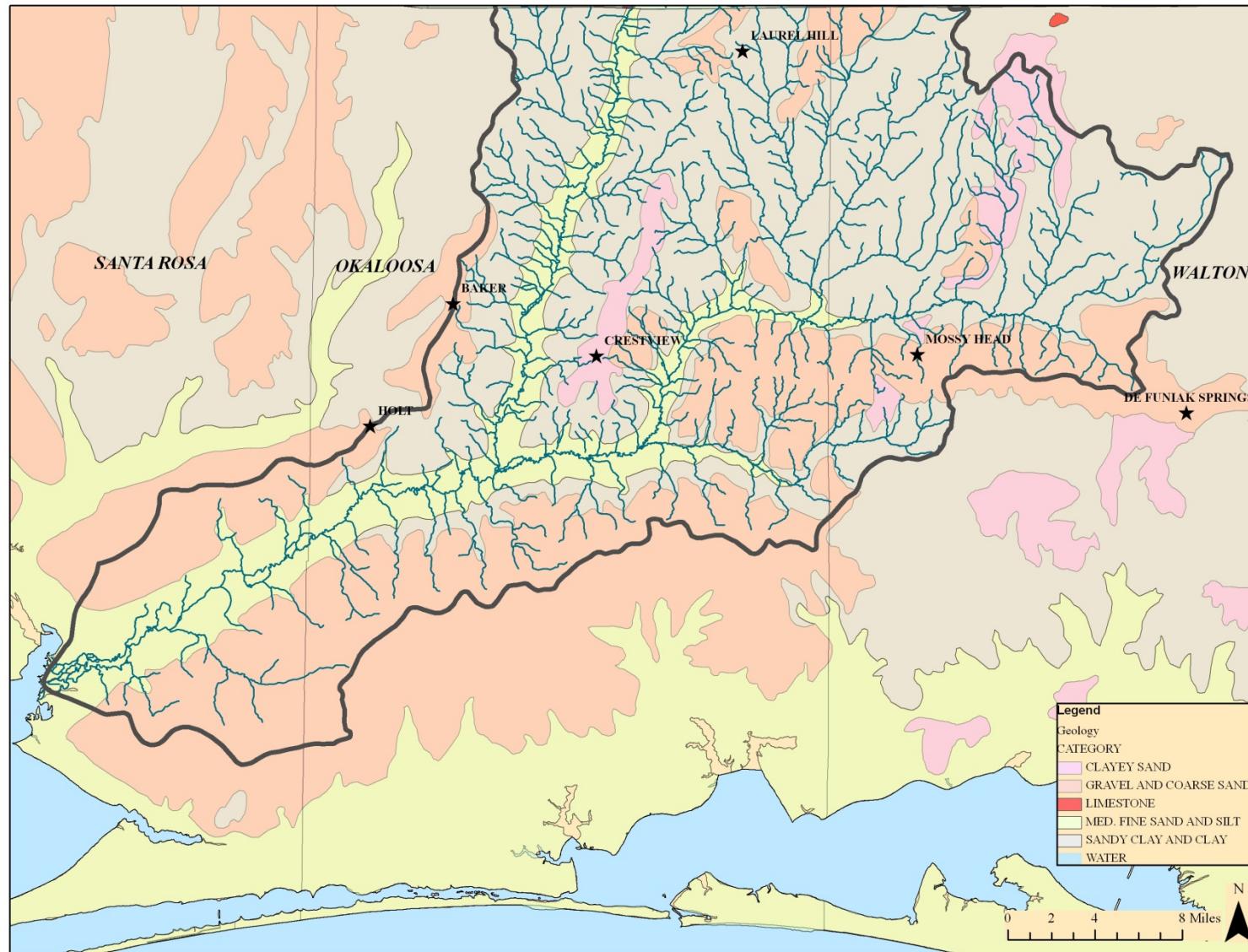


Figure 4. Land cover in the Yellow River Basin, Alabama and Florida.

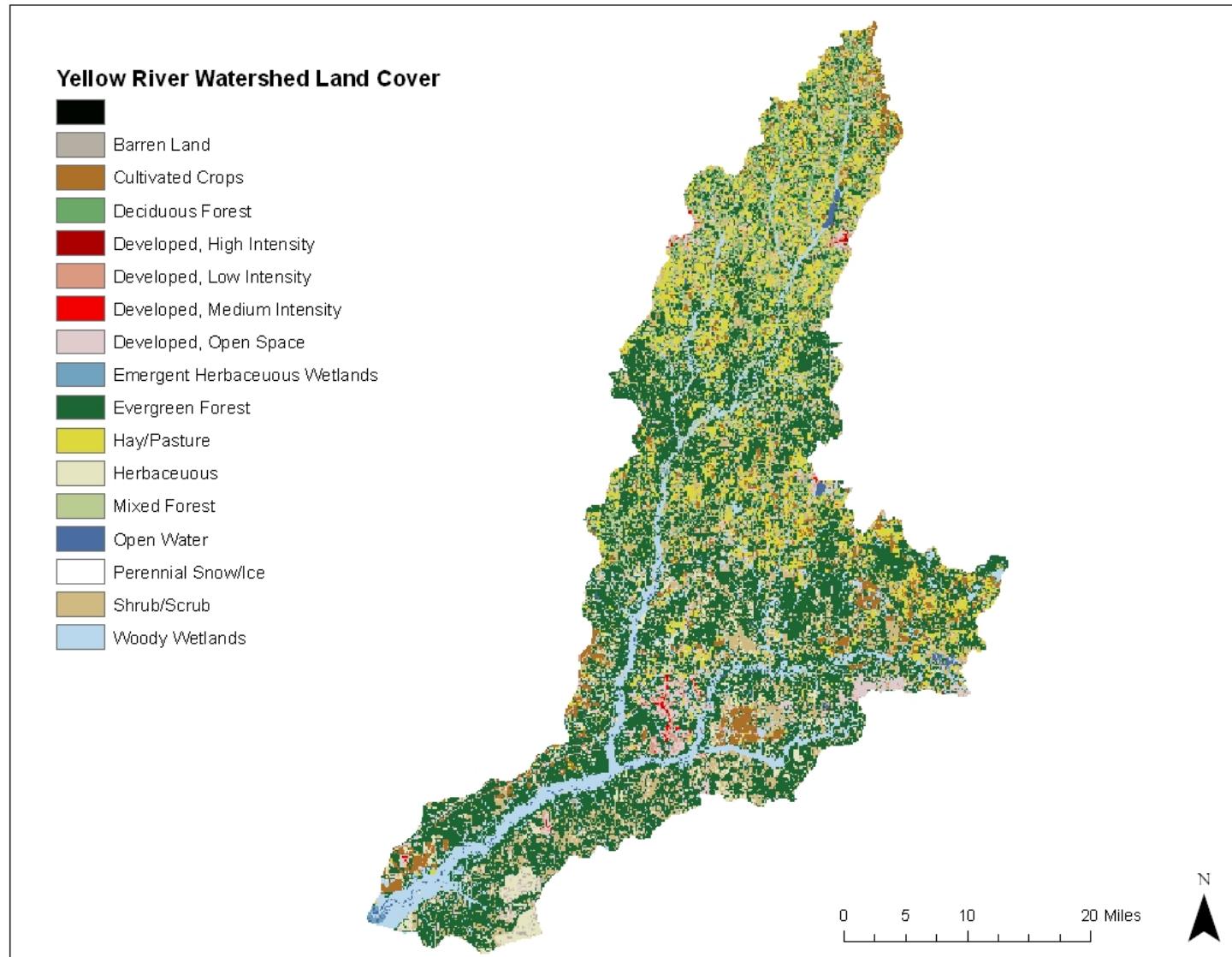


Figure 5. Land use within the Yellow River Basin, Florida

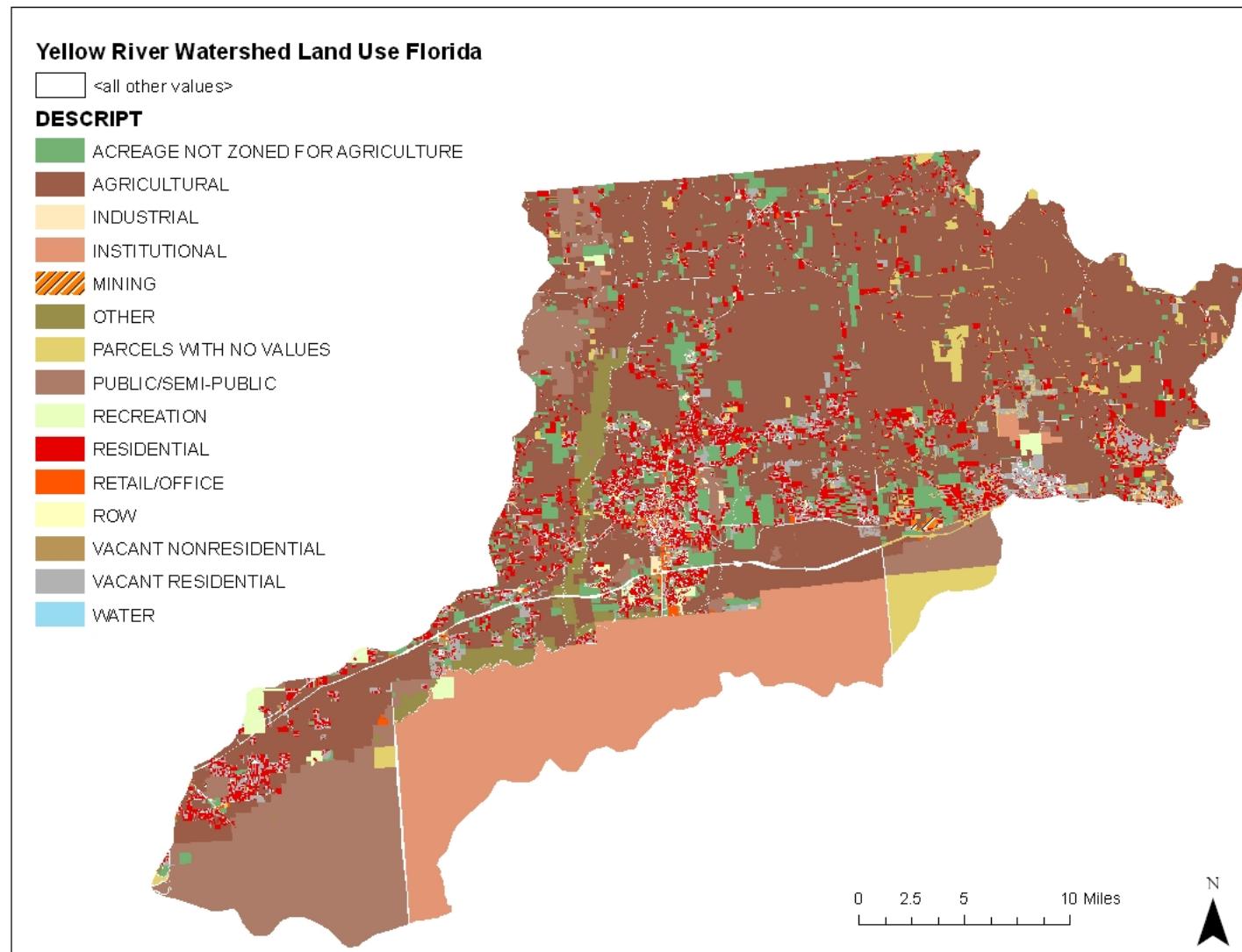


Figure 6. Impoundments in the Yellow River Basin, Alabama and Florida.

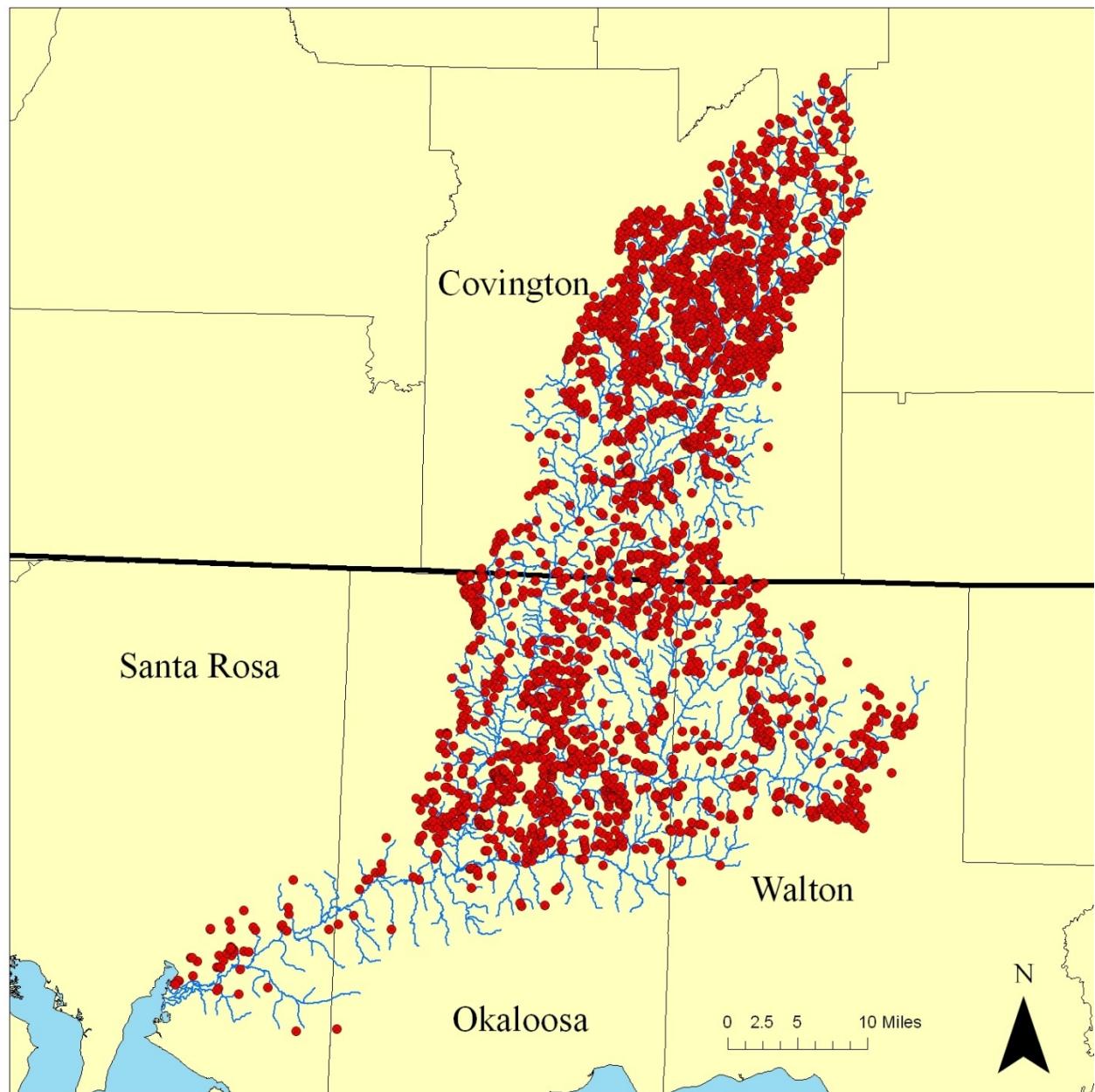


Table 4. River miles assessed in the Yellow River Basin, Alabama and Florida.

Water body	River Miles	Water body	River Miles
Yellow River- AL	35.0	Long Creek	8.0
Yellow River- FL	67.0	Pine Log Creek	6.45
Shoal River	40.0	Dog Creek	0.84
Juniper Creek	1.0	Titi Creek	6.57
Pond Creek	11.6	Boiling Creek	2.57
Five Runs Creek	14.25	Turkey Creek	5.5
Murder Creek	0.35	Gum Creek	4.71
Big Swamp Creek	5.01		
Total:	208.85		

Table 5. Severity score frequencies for river corridor sites in the Yellow River Basin, Alabama and Florida.

Severity Scale	Range	Frequency
Low	0.00 – 4.00	88
Moderate	4.25 – 7.25	43
High	7.50 – 16.5	9
	Total Sites	140

Table 6. Severity score frequencies for river corridor sites in the Yellow River Basin, Florida.

Severity Scale	Range	Frequency
Low	0.00 – 4.00	31
Moderate	4.25 – 7.25	8
High	7.50 – 16.5	0
	Total Sites	39

Table 7. Severity score frequencies for river corridor sites in the Yellow River Basin, Florida.

Severity Scale	Range	Frequency
Low	0.00 – 4.00	57
Moderate	4.25 – 7.25	35
High	7.50 – 16.5	9
	Total Sites	101

Table 8. Sediment Risk Index (SRI) scores for unpaved road crossing sites in the Yellow River Basin, Alabama and Florida.

Sediment Risk Index (SRI)	Range	Frequency
Low	46 – 60	81
Moderate	37 – 45	159
High	12 – 36	99
	Total Sites	339

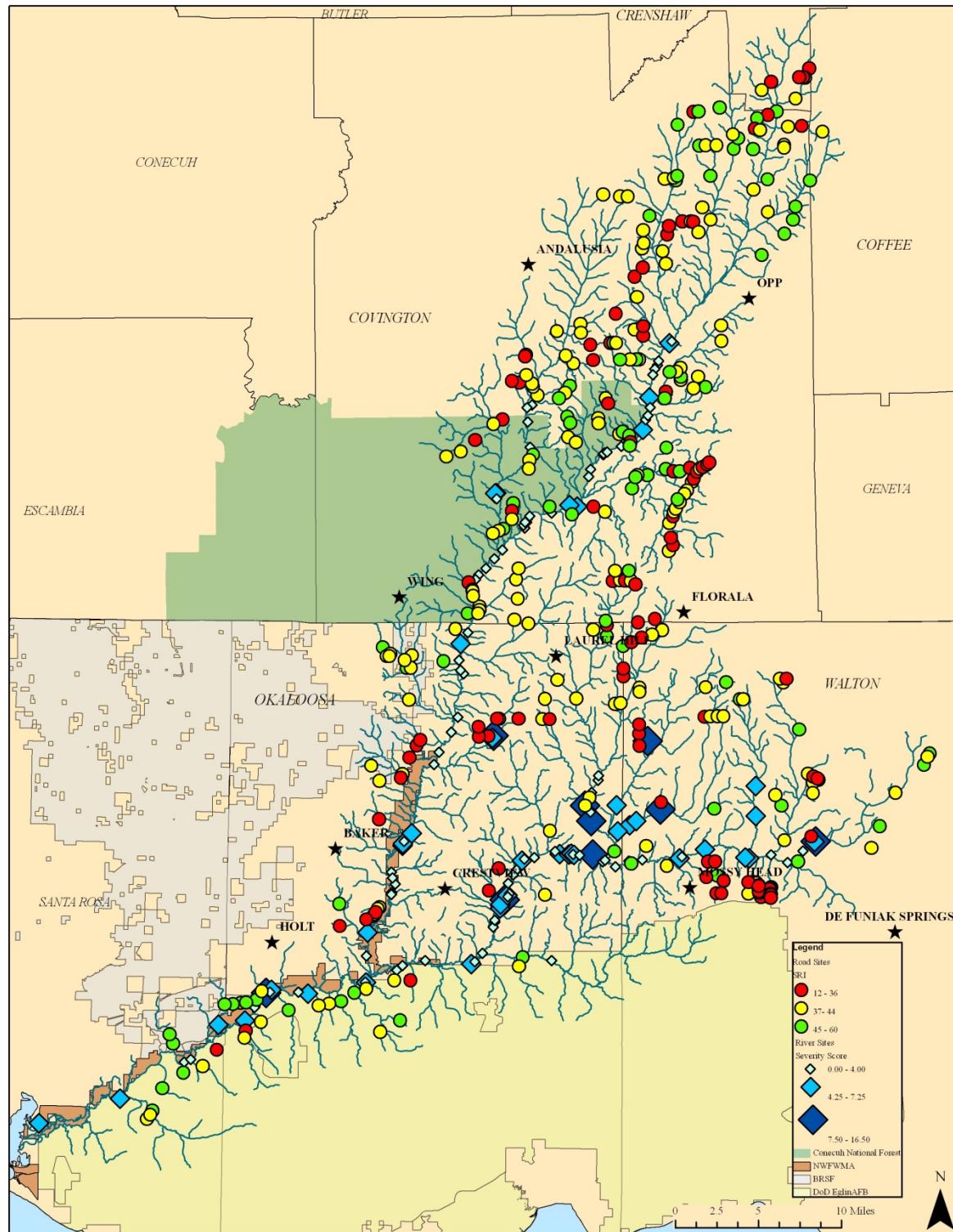
Table 9. Sediment Risk Index (SRI) scores for unpaved road crossing sites in the Yellow River Basin, Alabama.

Sediment Risk Index (SRI)	Range	Frequency
Low	46 – 60	48
Moderate	37 – 45	89
High	12 – 36	47
	Total sites:	184

Table 10. Sediment Risk Index (SRI) scores for unpaved road crossing sites in the Yellow River Basin, Florida.

Sediment Risk Index (SRI)	Range	Frequency
Low	46 – 60	33
Moderate	37 – 45	70
High	12 – 36	52
	Total Sites:	155

Figure 7. Impaired river corridor and unpaved road crossing sites in the Yellow River Basin, Alabama and Florida.



Site Prioritization

Impaired river corridor and unpaved road crossing sites were often located at or near priority ecological resources and designations throughout the basin. Many sites were clustered near each other and were often affected by a common feature such as a road, road crossing, or land use. For example, 35 impaired river corridor and unpaved road sites were found near or at stream crossings of Rattlesnake Road (also known as Rattlesnake Bluff Road and Eglin AFB Road 211) in Okaloosa County, FL. Similar patterns of impairment were apparent throughout the drainage.

We developed two categories for prioritizing sites based on these patterns of impairment location, severity, and potential to affect priority ecological resources and designations: “Focal Areas” and “Areas of Interest”. We created these categories to provide a pragmatic restoration approach for maximizing the potential to restore priority ecological resources and designations while minimizing the cost for completing restoration actions (i.e., the “biggest bang for the buck”). All other sites which did not fall within a Focal Area or Area of Interest were considered tertiary places for resource conservation, restoration, and management.

Focal areas are considered primary places for resource conservation, restoration, and management. These areas directly contribute to current degradation in the Yellow River Basin. They also have the greatest potential to positively affect several priority ecological resources and designations because the restoration of one or a few common features could restore numerous sites within the area. Focal Areas were defined as groupings of moderately and highly impaired river and road locations in near proximity to each other which (1) potentially affected several priority ecological resources and/or designations, (2) were within a defined public or private land management area (e.g., a national forest), and/or (3) were typically affected by a common feature.

Areas of Interest are considered secondary places for resource conservation, restoration, and management. These areas also contribute to river and stream degradation, but to a lesser extent than Focal Areas. They also have less restoration potential than Focal Areas because restoration would affect fewer priority ecological resources and designations, though future monitoring of these sites may be necessary if impairments increase within the area. Areas of Interest were defined as groupings of often moderately and highly impaired river and road locations in near proximity to each other which (1) usually affected only one or two priority ecological resources and/or designations, and/or (2) may be affected by a common feature.

We designated seven areas as Focal Areas. The “Clear Creek Watershed”, “Conecuh National Forest”, and “Five Runs Creek” focal areas are in Alabama. The “Pond Creek Watershed Focal Area” is in both Alabama and Florida. The “Murder Creek”, “Rattlesnake Road”, and “Shoal River at US-90” focal areas are in Florida. Although Five Runs Creek flows through the Conecuh National Forest, we designated it as a separate focal area based on differences in land ownership (and thus potential for enacting restoration) within and outside of the Conecuh National Forest. We designated four areas as Areas of Interest. The “Lightwood Knot” and “Upper Yellow River” areas of interest are in Alabama. The “Oakwood Hills” and “Old River Road” areas of interest are in Florida (Fig. 8).

Focal Areas

Clear Creek Watershed Focal Area.— The Clear Creek Watershed Focal Area consists of the entire Clear Creek watershed, located in south-central Covington County, AL (Fig. 9). We identified a total of 30 impaired unpaved road crossings; no impaired river corridor were identified (Appendix C). Impaired road sites are all privately owned, with 22 of the 30 sites owned by Rayonier Forest Resources LP, of Rayonier, Inc.

Figure 8. Focal Areas and Areas of Interest in the Yellow River Basin, AL and FL.

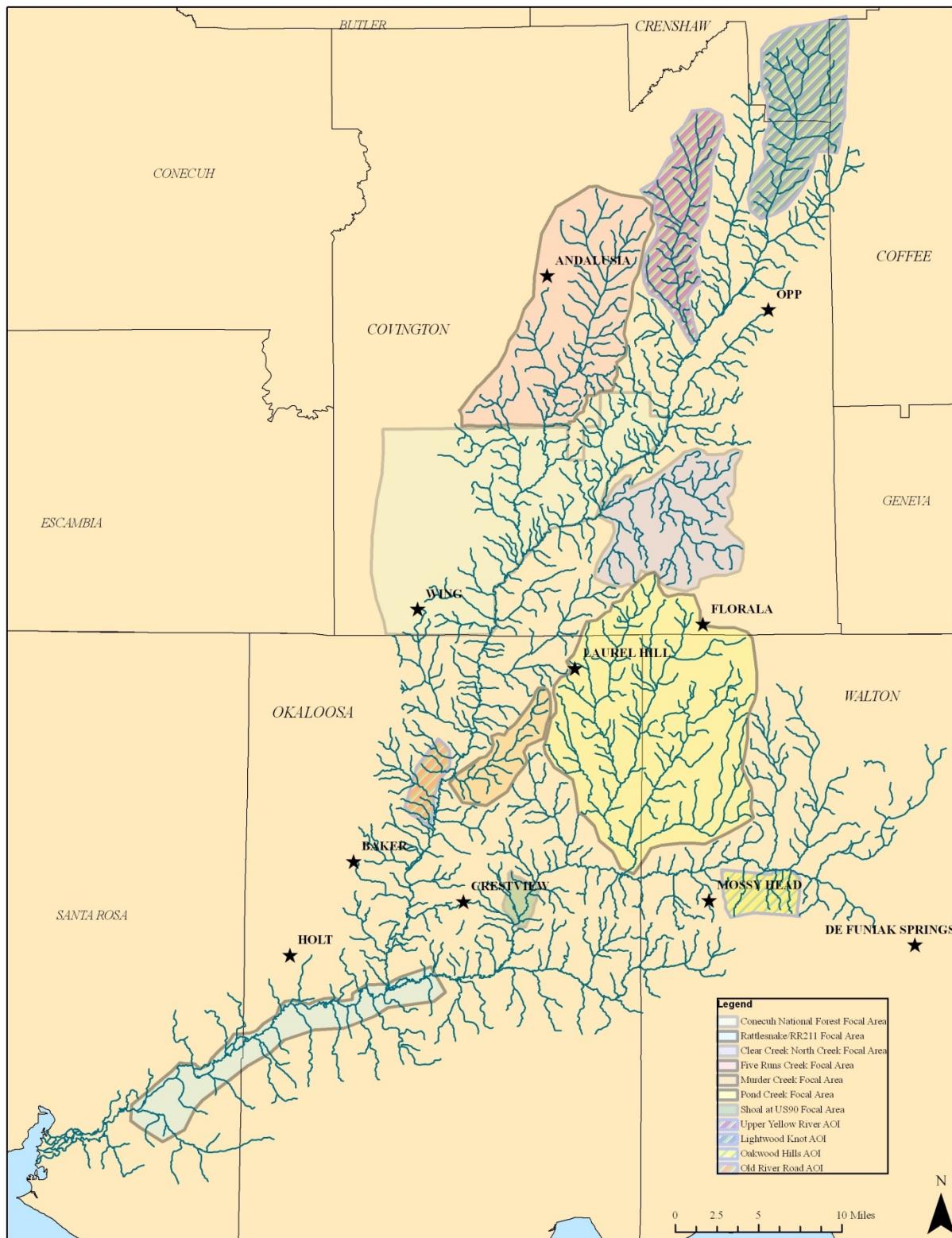
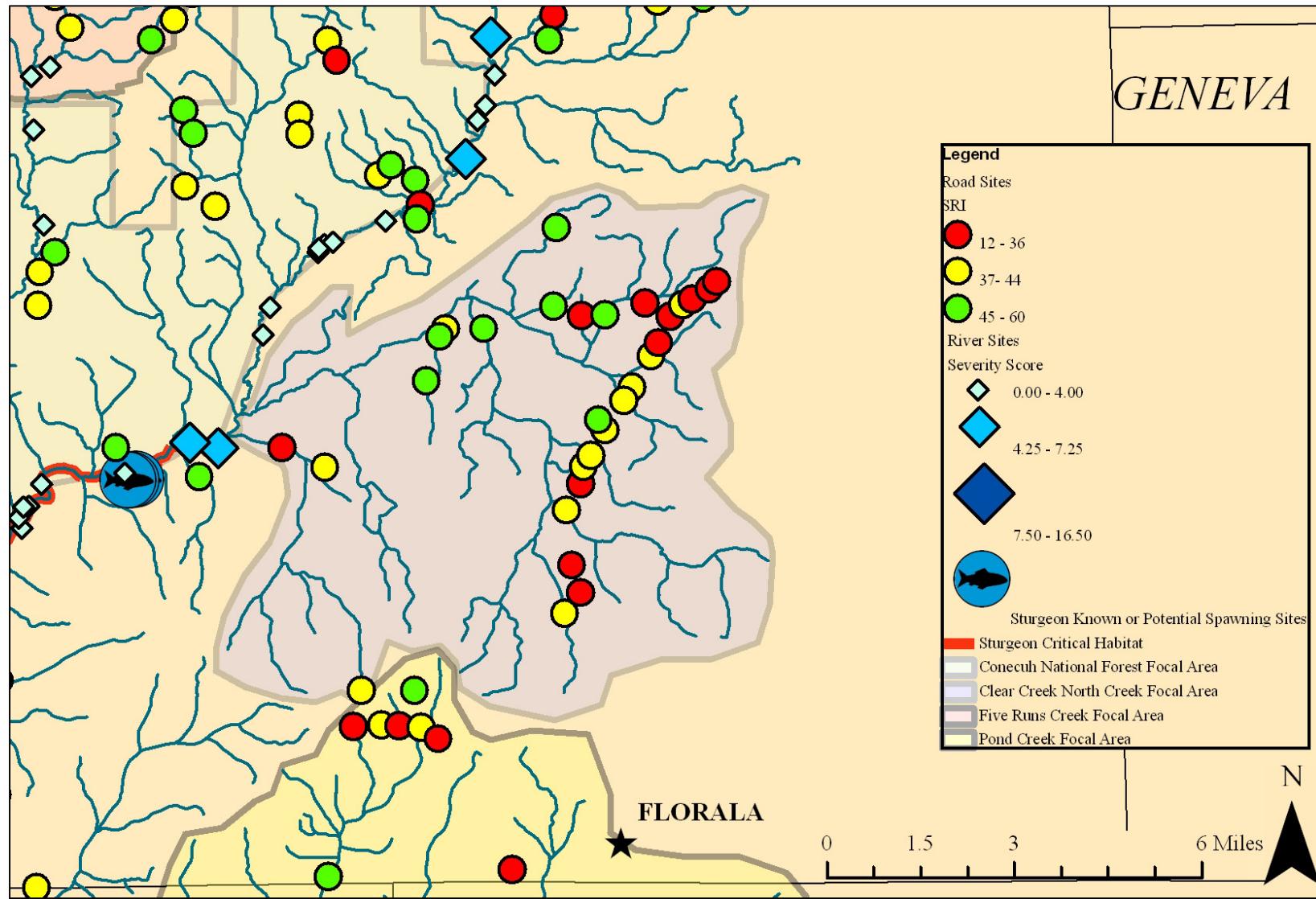


Figure 9. Clear Creek Watershed Focal Area.



Several priority resources and designations are located in or near to the Clear Creek Watershed Focal Area. This focal area directly drains to Gulf sturgeon critical habitat, locations believed to be potential Gulf sturgeon spawning sites, and three collection localities of the candidate mussels Southern sandshell, fuzzy pigtoe (*Pleurobema strodeanum*), and Choctaw bean (*Villosa choctawensis*) in the mainstem of the Yellow River. In addition, this focal area drains to and is located immediately upstream of the 15 river-mile section of the Yellow River that Alabama has designated as impaired under the Clean Water Act Section 303(d) for mercury (Covington Co., AL03140103-0402-100; ADEM 2008).

The 30 impaired unpaved road crossings are comprised of 11 “High”, 12 “Moderate”, and seven “Low” risk sites. We were unable to survey all of the unpaved roads within this focal area because many were privately owned. However, a majority of impaired sites recorded from this focal area were located along the publically accessible Tram /Johnsons Quarters Road (these roads run together). Tram /Johnsons Quarters Road stream crossings were likely similar to those roads we did not assess based on conditions of nearby roads and confirmation via aerial photography that those roads were similarly unpaved. Thus, the number of impaired unpaved road crossings in the Clear Creek watershed is likely underestimated. Covington County, AL unpaved roads this focal area with impaired sites included Tram /Johnsons Quarters Road (18), Booker Road (3), Swimming Hole Road (3), Laird Road (2), Betty’s Road (1), Big Farm Road (1), Buster Aplin Road (1), Camp Eleven Road (1), and New Hope Road (1). These sites crossed Clear Creek and its tributaries.

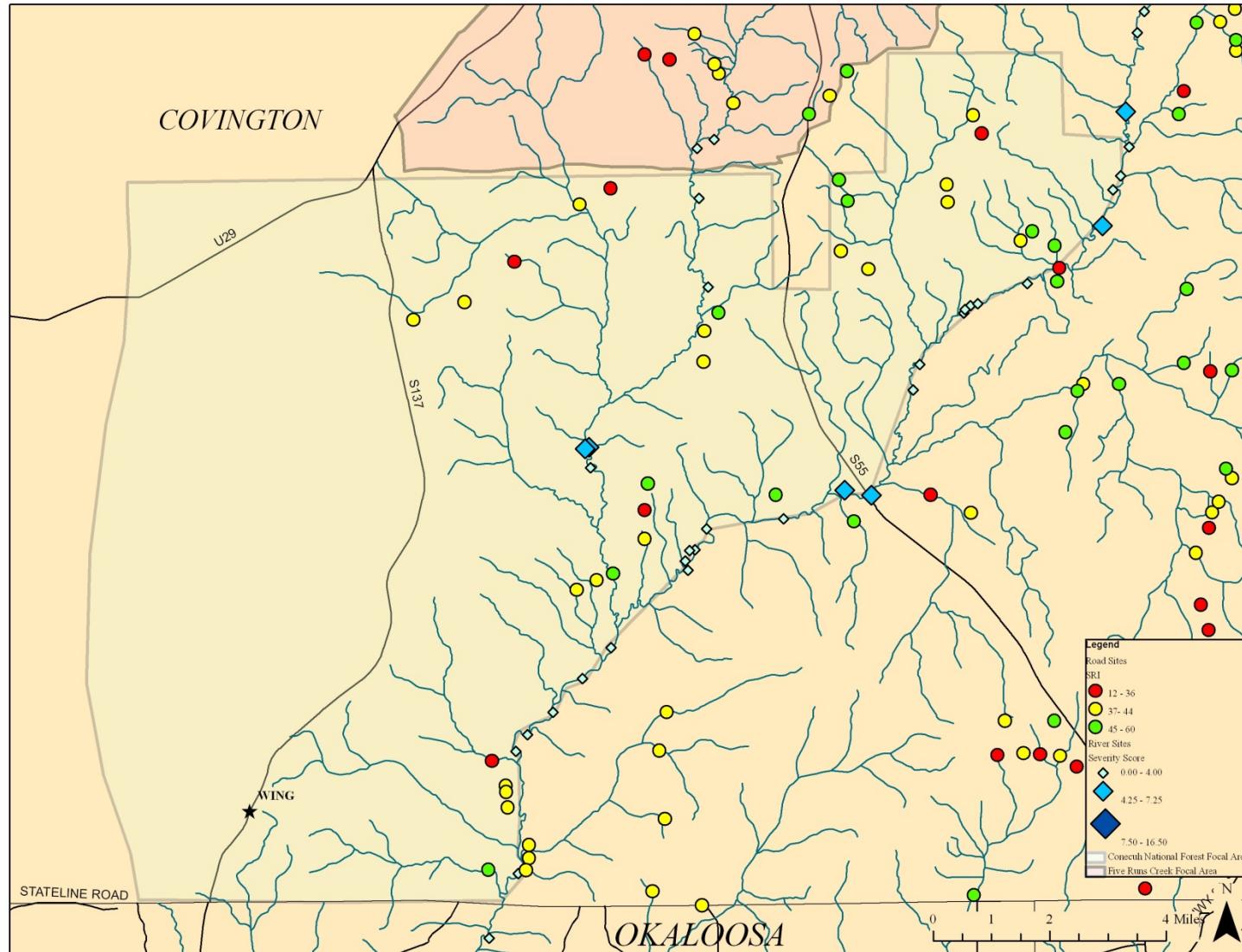
Unpaved road crossings were identified as impaired primarily due to existing or potential for sedimentation resulting from undersized and improperly positioned culverts and bare soils, ditches, and outlets. In addition, much of the watershed appeared to be under silviculture, with

clear cuts and similar land clearings likely contributing to impairment at sites inventoried. Many streams which were at high risk for sedimentation were small tributaries. Sites ranked “High” and “Moderate” were commonly characterized by undersized culverts which were partially blocked, completely blocked, and buried by excessive sediment. This, in combination with high prism fill, resulted in impounded upstream condition and subsequent loss of upstream habitat, fish passage barriers, and loss of downstream habitat heterogeneity due to excessive sedimentation. For example, site co-0820-r-003 (SRI = 28) on Tram Road was characterized by an undersized culvert that was partially buried with sediment and habitat loss was obvious both upstream and downstream of the road crossing. This site, like most of those inventoried, had bare soil ditches and outlets and high prism fill which increased sedimentation risk at those sites. Other sites ranked “Moderate” and “Low” were impaired by similar factors but to a lesser extent than the more impaired sites inventoried.

Conecuh National Forest Focal Area.—The Conecuh National Forest Focal Area consists of the Yellow River and its tributaries within the boundary of the Conecuh National Forest, Covington County, AL (Fig. 10). We identified a total of 52 impaired sites, including 20 impaired sites within the river corridor and 32 impaired unpaved road crossings (Appendix D). Impaired river and road sites are publically (The Conecuh National Forest) and privately owned.

Several priority resources and designations are located in or near to the Conecuh National Forest Focal Area. This focal area is located within or directly drains to Gulf sturgeon critical habitat and locations believed to be potential Gulf sturgeon spawning sites. There are six collection localities of the candidate mussels Southern sandshell, Fuzzy pigtoe, and Choctaw

Figure 10. Conecuh National Forest Focal Area.



bean located in the mainstem of the Yellow River and Five Runs Creek, a large tributary to the Yellow River. Alabama has also designated approximately 15 river-miles upriver from the Alabama-Florida state line in the Conecuh National Forest Focal Area as impaired under the Clean Water Act Section 303(d) for mercury (Covington Co., AL03140103-0402-100; ADEM 2008).

The 20 impaired sites within the river corridor are comprised of five “Moderate” and 15 “Low” risk sites. These sites crossed the Yellow River and Five Runs Creek. River corridor sites identified as impaired for potential bank erosion and sedimentation were predominately due to natural erosive features of the river but nonetheless inventoried during the study. However, there were several sites with impairments likely influenced by proximate land activities. For example, riverbank erosion recorded at site co-0807-009 (severity score = 5) is likely influenced by a land clearing within 30 yards of the riverbank, while impairments recorded at site co-0924-002 (severity score = 4.5) may be influenced by an unpaved road and primitive trail which terminates within yards of the site.

Site co-0610-001 (severity score = 4.25), referred to locally as “Dripping Rock”, is characterized by a denuded and breached riverbank and an unpaved road which terminates at the site. Although this site ranks relatively low compared to other impaired river sites, it is directly adjacent to one of five potential Gulf sturgeon spawning sites and is the only site from which sturgeon eggs have been documented in the Yellow River. The “Dripping Rock” site also has substantial public use along its banks adjacent to this spawning area. This site is accessed by the unpaved road, in which persons trespass over private property to reach the river, and vandalism is common. Destruction of the riverbank by trespassers apparently facilitates large amounts of sediment from the unpaved road to enter the river and is believed to smother and

otherwise degrade the natural bedrock and gravel spawning substrate needed by Gulf sturgeon in the Yellow River (FDEP 2002). This site was restored during Phase II of the project (see page 61).

The 32 impaired unpaved road crossings are comprised of six “High”, 17 “Moderate”, and nine “Low” risk sites. Covington County, AL unpaved roads in this focal area with impaired sites included Bass Road (6), Hog Foot Road (4), Sanders Road (4), Shiloh Cemetery Road (3), Braswell Road (2), Bulger Town Road (2), Cravey Bridge Road (2), Nature Road (2), Tim Powell Road (2), Drip Rock Road (1), Groger Road (1), Lamar Lake Road (1), Lake Road (1), and Moores Mill Creek Road (1). These sites crossed small tributaries which drained directly the Yellow River and Five Runs Creek and its tributaries.

Unpaved road crossings were identified as impaired primarily due to existing or potential for sedimentation resulting from undersized and improperly positioned culverts and bare soils, ditches, and outlets. Sites ranked “High” tended to be small tributaries which were impaired primarily due to these factors, with major sources of sediment likely attributed to the unpaved road themselves due to high slope and prism fill. For example, site co-0901-r-018 (SRI = 36) on Cravey Bridge Road is used as a small boat and canoe launch to the Yellow River, and is a collection locality of the candidate mussels Choctaw bean and Southern sandshell. Although the site has a large, properly sized, paved bridge which spans the river channel, bare soil ditches and outlets on all sides of the crossing in combination with high prism fill resulted in a high potential for excessive sedimentation to reach the river unabated, smother in-stream substrates, and generally degraded the river. Sites ranked “High” and “Moderate” were commonly characterized by high prism fill and undersized culverts which were partially blocked, completely blocked, or buried by excessive sediment. This resulted in impounded upstream

conditions and subsequent loss of upstream habitat, fish passage barriers, and loss of downstream habitat heterogeneity due to excessive sedimentation (e.g., co-0810-r-017 and co-0810-r-011).

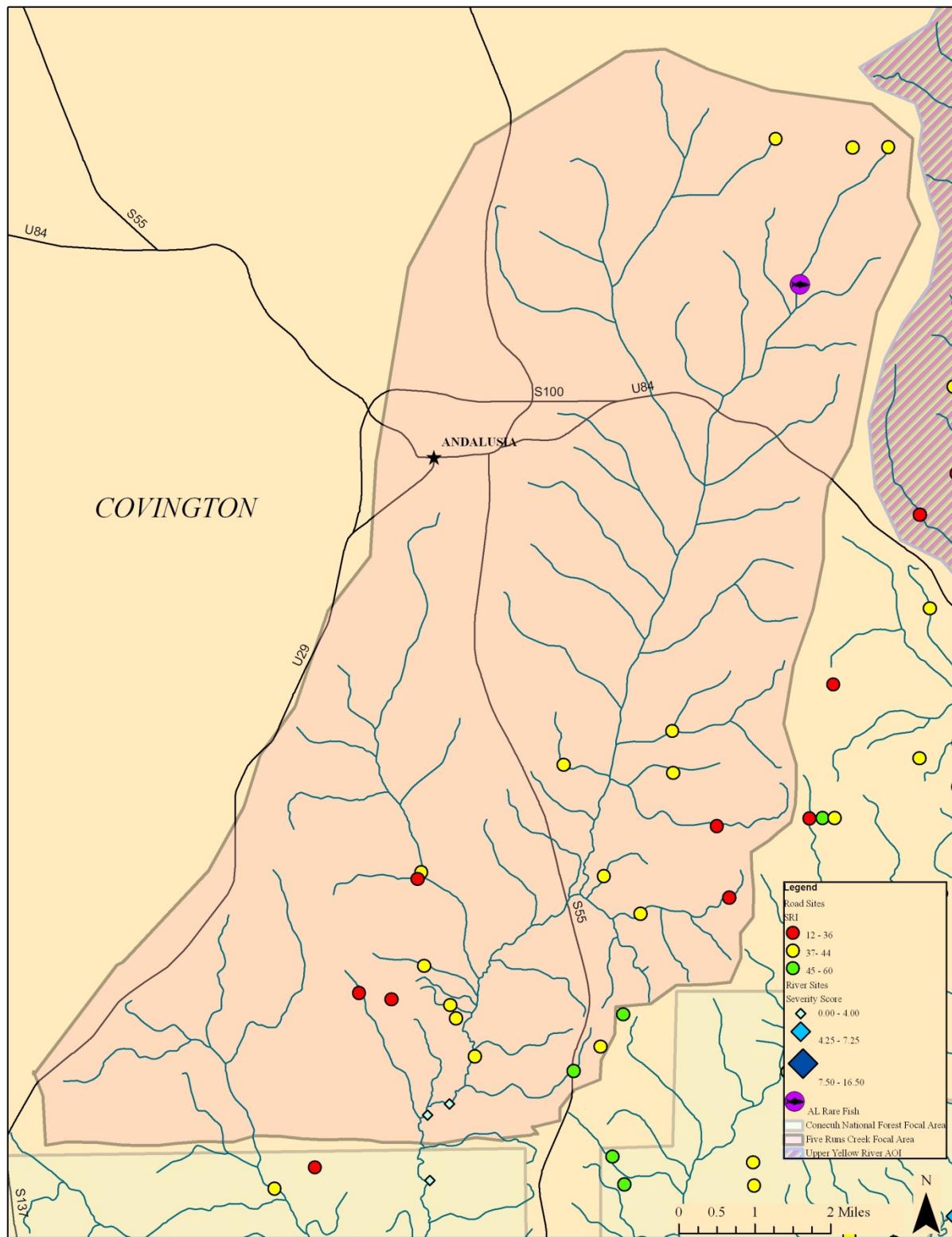
Cattle access to the stream was also recorded at several sites (e.g., co-0901-r-014 and co-0901-r-010). Other sites ranked “Moderate” and “Low” were also impaired by similar risk factors.

Five Runs Creek Focal Area.— The Five Runs Creek Focal Area consists of the Five Runs Creek watershed north of where it enters the Conecuh National Forest boundary, located in south and central Covington County, AL (Fig. 11). We identified a total of 23 impaired sites, including two impaired sites within the river corridor and 22 impaired unpaved road crossings (Appendix E). All impaired river and road sites are privately owned.

Two priority resources and designations are located in or near to the Five Runs Creek Focal Area. This focal area directly drains to the Conecuh National Forest Focal Area, where three collection locations of the candidate mussels Southern sandshell, fuzzy pigtoe, and Choctaw bean have been recorded from the mainstem of Five Runs Creek. This focal area is also located within the range of one of Alabama’s Rare and Imperiled Fishes, the ironcolor shiner (*Notropis chalybaeus*).

The two impaired sites within the river corridor are comprised of one “Moderate” and one “Low” risk site. Both river corridor sites were located in Five Runs Creek. While site co-0923-001 (severity score = 5) was characterized by localized bank erosion likely influenced by an unpaved road leading directly to the edge of the creek, site co-0923-002 (severity score = 2) was likely a natural feature of the river channel. The 22 impaired unpaved road crossings are comprised of five “High”, 14 “Moderate”, and two “Low” risk sites. Covington County, AL unpaved roads this focal area with impaired sites included Bass Bridge Road (5),

Figure 11. Five Runs Creek Focal Area.



George Mims Road (3), Head Farm Road (3), Eddie Cannon Road (2), Wiggins Farm Road (2), Bay Branch Road (1), Brasville Road (1), Elnor Road (1), Hanegan Road (1), Sammy Brown Road (1), and Stant Wood Road (1). These sites crossed Five Runs Creek and its tributaries.

Unpaved road crossings were identified as impaired primarily due to existing or potential for sedimentation resulting from undersized and improperly positioned culverts and bare soils, ditches, and outlets. Sites ranked “High” tended to be small tributaries which were impaired primarily due to these factors as well as high slope and prism fill. For example, site co-0901-r-012 (SRI = 30) on Sammy Brown Road was characterized by two undersized culverts, high prism fill, and bare soil ditches and outlets. These conditions resulted in excessive sedimentation to the channel, sediment islands and scouring, and loss of habitat both up- and downstream of the road crossing. Localized land clearing within the immediate vicinity of the crossing likely contributed to these impairments. Several “High” and “Moderate” ranked sites were locations where private landowners installed dams at or just upstream of the crossing, creating impoundments, loss of upstream habitat, and complete fish passage barriers (e.g., co-0810-r-015 and co-0810-r-016). Other sites ranked “High” and “Moderate” were characterized by undersized culverts which were partially blocked, completely blocked, or buried by excessive sediment. In combination with high prism fill, this resulted in impounded upstream condition and subsequent loss of upstream habitat, fish passage barriers, and loss of downstream habitat heterogeneity due to excessive sediment. Cattle access to the stream was also recorded at several sites (e.g., co-1029-r-008 and co-1029-r-007). Other sites ranked “Moderate” and “Low” were impaired by similar factors but to a lesser extent than the more impaired sites inventoried.

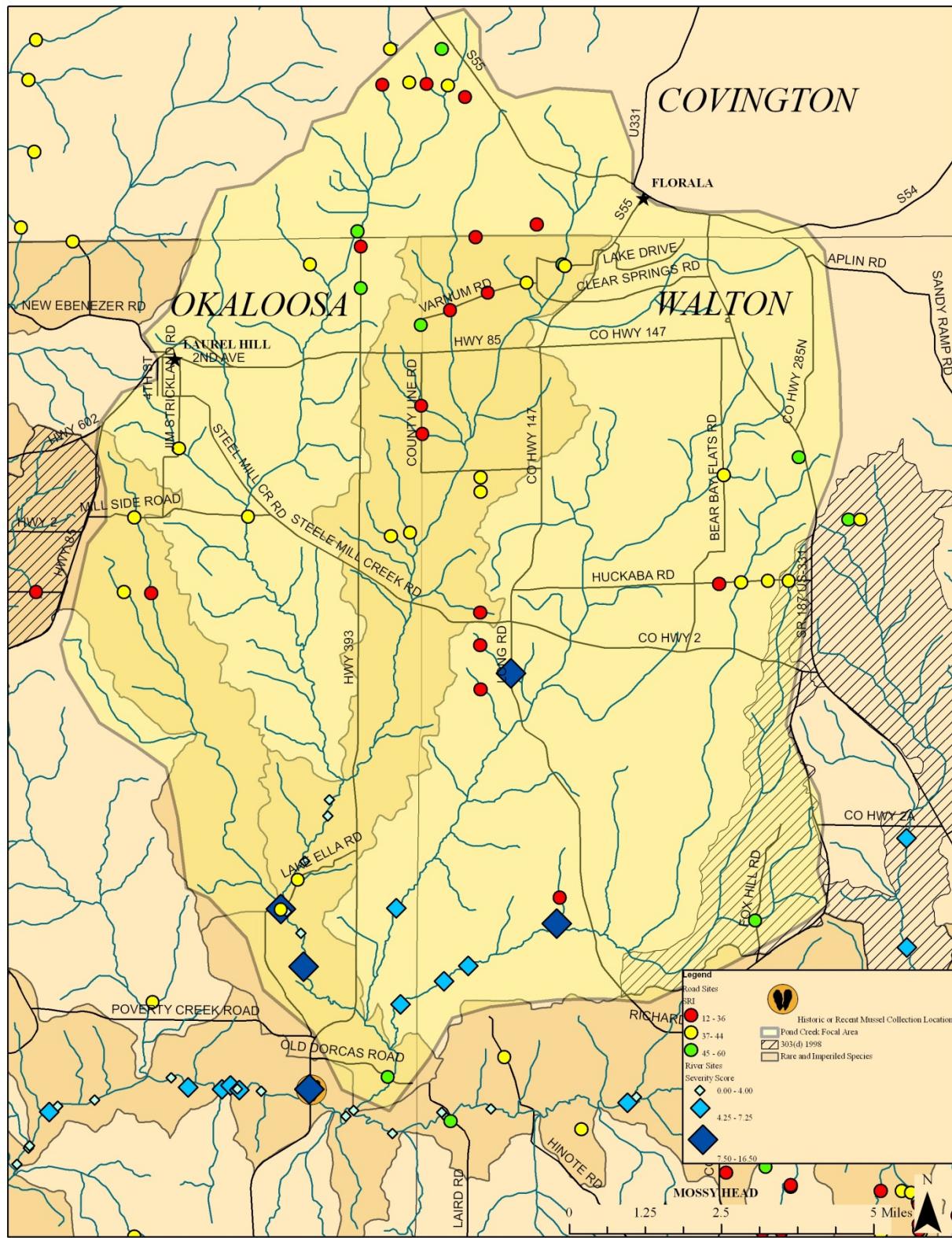
Pond Creek Watershed Focal Area.— The Pond Creek Watershed Focal Area consists of the entire Pond Creek watershed, which drains from the north southward into the middle Shoal

River, located in northeast Okaloosa and northwest Walton counties, FL, and south Andalusia County, AL (Fig. 12). We identified a total of 56 impaired sites, including 13 impaired sites within the river corridor and 43 impaired unpaved road crossings (Appendix F). All impaired river and road sites are privately owned.

Several priority resources and designations are located in or near to the Pond Creek Watershed Focal Area. The mainstems of Pond Creek and Juniper Creek are within the range of two fishes listed among Florida's Rare and Imperiled Species. These fishes include the speckled chub (*Macrhybopsis aestivalis*) and ironcolor shiner. In addition, there is one collection location of a candidate mussel, the Southern sandshell, located at the confluence of Pond Creek and the Shoal River. This focal area overlaps priority wetlands habitat with 1 – 3 focal species in wetland areas in Florida. The confluence of Pond Creek and the Shoal River is within the Outstanding Florida Water designation for the Shoal River. Florida has designated Little Creek as impaired under the Clean Water Act Section 303(d) for fecal coliform (Walton Co., Wbid 144; FDEP 1998). Although Little Creek is not within the focal area, it is located upstream from and drains directly to Long Creek, which is included in the focal area.

The 13 impaired river corridor sites are comprised of four “High”, four “Moderate”, and five “low” risk sites. These sites were located in Long Creek, Pond Creek, Pine Log Creek, and several unnamed tributaries. River corridor sites were identified as impaired primarily due to existing or potential for riverbank erosion and sedimentation resulting from adjacent unpaved roads and land clearings, intact and abandoned bridges, and powerline crossings. There was also evidence of use of the creeks by trucks and off-road vehicles at two sites on Pond Creek (ok-0922-001 and ok-0928-004).

Figure 12. Pond Creek Watershed Focal Area.



Sites ranked “High” were impaired primarily for different reasons, though the resulting excessive sedimentation, loss of in-stream habitat, and fish passage barriers were similar. Site wa-1007-001 (severity score = 12), an unnamed tributary to Long Creek, was among the highest impaired river sites recorded throughout the study. It was characterized by a complete fish passage barrier due to a concrete dam and resulting upstream impoundment, a completely denuded riparian corridor, and rip-rap which was apparently added to the stream bank but had collapsed into the stream channel. This site is also located downstream of wa-1005-r-005, an unpaved road site ranked “High” for impairments (SRI = 36). These conditions and the resulting sedimentation have resulted in a substantial loss of in-stream habitat heterogeneity for hundreds of yards downstream from the dam and impoundment.

Excessive sedimentation in Pond Creek and its tributary Juniper Creek may be partially responsible for the collapsed bridge and excessive sedimentation present downstream at site ok-0928-001 (severity score = 9.5) . Sources of impairments for other sites ranked “High” included an abandoned powerline crossing with denuded stream banks that allows local access to Pond Creek (ok-0928-004) and stream bank erosion and a failing upstream culvert (wa-1105-004). Sites ranked “Moderate” and “Low” shared similar characteristics as sites ranked “High”, particularly excessive sedimentation and loss of in-stream habitat due to local land use and nearby unpaved roads. Impairments within the this focal area may be affected by current and historical clear cutting forestry practices, particularly in Juniper Creek, a tributary to Pond Creek.

The 43 impaired unpaved road crossings are comprised of 15 “High”, 20 “Moderate”, and eight “Low” risk sites. Covington County, AL unpaved roads this focal area with impaired sites included Union Church Road (5), Chance Road (1), Davis Road (1), and One Bridge Road (1). Okaloosa County, FL unpaved roads with impaired sites include County Line Road (2), East

Plympton Road (2), Lake Ella Road (2), Robinson Road (2), Buck Tyner Road (1), Ludlam Road (1), Millside Road (2), and Pond Creek Road (1) in Okaloosa County. Washington County, FL unpaved roads with impaired sites include Campground Road (4), County Line Road (3), Frost Lane (3), Vamum Road (3), Allen Road (2), Double Bridge Road (2), Bear Bay Road (1), Foxhill Road (1), Franklin Road (1), Jackson Road (1), and Long Road (1). These sites crossed Long Creek, Pond Creek, Pine Log Creek, and several unnamed tributaries.

Unpaved road crossings were identified as impaired primarily due to existing or potential for sedimentation resulting from undersized and improperly positioned culverts and bare soils, ditches, and outlets. In general, sites that ranked “High” were most severely impaired by these factors, resulting in obvious excessive sedimentation and subsequent loss of in-stream habitat as a result. For example, site co-0731-r-008 (SRI = 28) at Horsehead Creek (Pond Creek Drainage) was characterized by two improperly positioned, undersized culverts, resulting in extensive upstream habitat loss due to impounding and loss of downstream habitat due to excessive sedimentation. This condition was common for numerous “High” and “Moderate” ranked unpaved road crossings in this focal area.

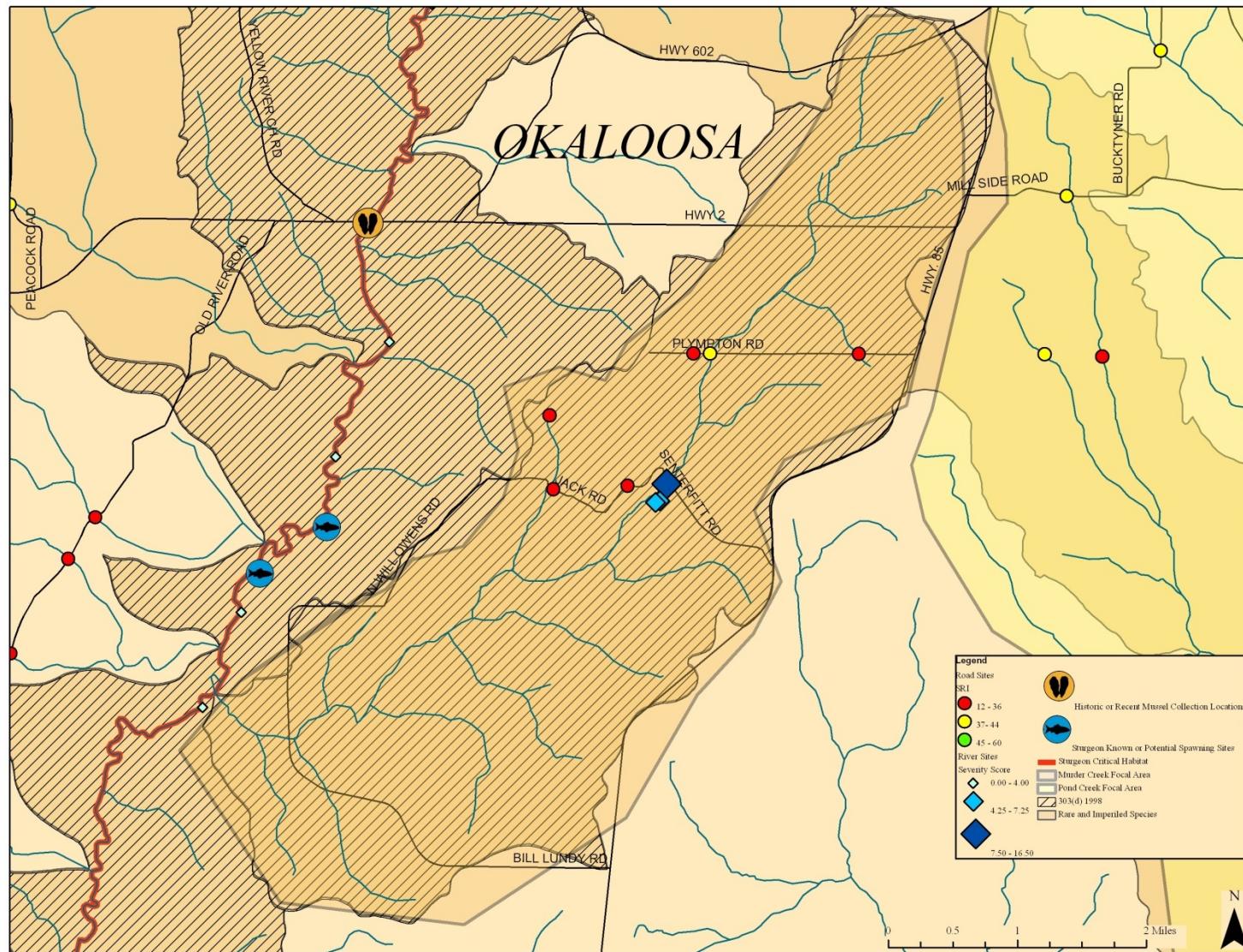
Sites ranked “Moderate” or “Low” were impaired by similar factors but to a lesser extent. Culverts partially blocked, completely blocked, and buried by excessive sediment were not uncommon for sites ranked “High” and “Moderate” (e.g., Wa-0625-r-002 and Wa-0626-r-005). Several sites ranked “High” had complete loss of upstream riverine habitat due to impounded conditions resulting from improperly sized and sediment-blocked culverts, or intentional impounding by private landowners (e.g., Wa-0706-r-003). Cattle access to streams also contributed to impairments at several road crossings. High slopes of unpaved roads in combination with bare soils contributed to impairments at most sites.

Murder Creek Focal Area.— The Murder Creek Focal Area consists of the entire Murder Creek watershed, located in north Okaloosa County, FL (Fig. 13). We identified a total of nine impaired sites, including three impaired sites within the river corridor and six impaired unpaved road crossings (Appendix G). All impaired river and road sites are all privately owned.

Several priority resources and designations are located in or near to the Murder Creek Focal Area. This focal area directly drains to Gulf sturgeon critical habitat. The mainstem of Murder Creek and its tributaries are within the range of two fishes listed among Florida's Rare and Imperiled Species. These fishes include the blacktip shiner (*Lythrurus atrapiculus*) and ironcolor shiner. This focal area overlaps priority wetlands habitat with 1 – 3 focal species in wetland areas in Florida. Florida has designated the Murder Creek Watershed as impaired under the Clean Water Act Section 303(d) for dissolved oxygen and fecal coliform (Okaloosa Co., Wbid 107; FDEP 1998). This focal area also drains directly to a reach of the Yellow River from the Alabama-Florida border downstream to its confluence with the Shoal River that Florida has designated as impaired under the Clean Water Act Section 303(d) for dissolved oxygen, turbidity, and mercury (Okaloosa Co., Wbid 30A; FDEP 1998).

The three impaired sites within the river corridor are comprised of one “High” and two “Moderate” risk sites. All sites were located in Murder Creek. River corridor sites were identified as impaired primarily due to poor bank stability from adjacent land use and conversion, and were highly entrenched. This focal area contained the most highly impaired river corridor site, ok-1105-001 (severity score = 12.5) on Murder Creek. This site is located directly downstream from Senterfitt Road and a private landowner who has extensively cleared land for several acres upstream of the site. There was also large amount of rip-rap present throughout the channel which was presumably used previously for streambank stabilization.

Figure 13. Murder Creek Focal Area



This has resulted in a loss of in-stream habitat and likely creates a partial fish passage barrier during low flow periods. The other two sites similarly suffer from severe entrenchment and excessive sedimentation, resulting in little in-stream habitat heterogeneity.

The six impaired road crossings are comprised of five “High” and one “Moderate” risk sites. Okaloosa County, FL unpaved roads in this focal area with impaired sites included West Plympton Road (3), Jack Road (2), and Bill Lundy Road/CR-85A (1). These sites crossed Murder Creek, Coon Branch, and several unnamed tributaries. Unpaved road crossings were identified as impaired primarily due undersized and improperly positioned culverts and bare soils, ditches, and outlets. Culverts at all sites were notably undersized, resulting in extensive loss of upstream habitat due to impounding and downstream habitat due to excessive sedimentation. For example, site ok-0429-r-010 (SRI = 26) is characterized by two undersized and perched culverts which completely impound the tributary upstream from the road crossing, resulting in a complete fish passage barrier. This has also resulted in excessive sedimentation and subsequent loss of in-stream habitat downstream from the crossing. Other inventoried sites are similarly impaired by these factors.

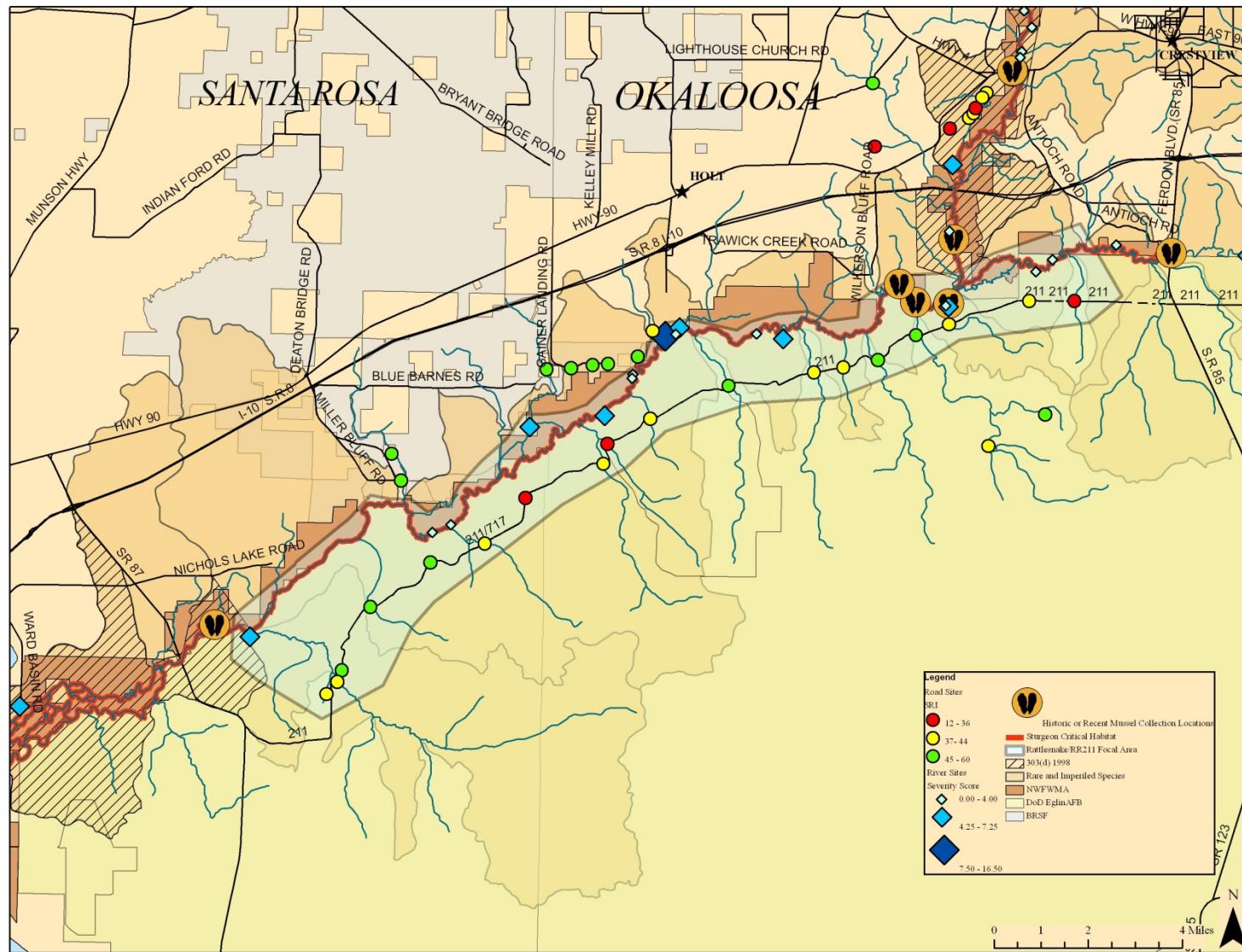
Rattlesnake Road Focal Area.— The Rattlesnake Road Focal Area is located along or near Rattlesnake Road, an unpaved road located in southeast Santa Rosa County and south-southwest Okaloosa County, Florida (Fig. 14). Rattlesnake Road is also known as Rattlesnake Bluff Road and Eglin AFB Road 211. We identified a total of 35 impaired sites, including 15 impaired sites within the river corridor and 20 impaired unpaved road crossings (Appendix H). Impaired river and road sites are predominately publically owned by the U.S. Government (Eglin

Air Force Base) and the Northwest Florida Water Management District. Other land owners are private entities.

Several priority resources and designations are located in or near to the Rattlesnake Road Focal Area. This focal area is located within or directly drains to Gulf sturgeon critical habitat. The mainstem of the Yellow River as well as all tributaries located within this focal area are within the range of eight fishes listed among Florida's Rare and Imperiled Species. These fishes include the Gulf sturgeon, alligator gar (*Atractosteus spatula*), Alabama shad (*Alosa alabamae*), speckled chub, ironcolor shiner, bluenose shiner (*Pteronotropis welaka*), spotted bullhead (*Ameiurus serracanthus*), and speckled darter (*Etheostoma stigmaeum*). In addition, there are four collection localities candidate mussels within or near to this focal area. These include the narrow pigtoe (*Fusconaia escambia*), Southern sandshell, and Choctaw bean. This focal area overlaps priority wetlands habitat with 1 – 3 focal species in wetland areas in Florida. Florida has designated the lower portion of the Yellow River, which located directly downstream of this focal area, as impaired under the Clean Water Act Section 303(d) for dissolved oxygen, turbidity, and mercury (Santa Rosa Co., Wbid 30A; FDEP 1998).

The 15 impaired river corridor sites are comprised of one “High”, six “Moderate”, and nine “low” risk sites. These sites were located in the Yellow River, Shoal River, Pitts River, and Boiling Creek. River corridor sites were identified as impaired primarily due to existing or potential for riverbank erosion and sedimentation from adjacent unpaved roads and boat ramps. Site ok-0225-005 (severity score = 8) was impaired due to high potential for riverbank erosion and sedimentation, a pipe discharge, and a collapsed boat ramp originating from a landowner and home positioned near the denuded riverbank. Sites ranked “Moderate” were impaired due to riverbank and boat launch erosion and sedimentation due to public and private land use.

Figure 14. Rattlesnake Road Focal Area.



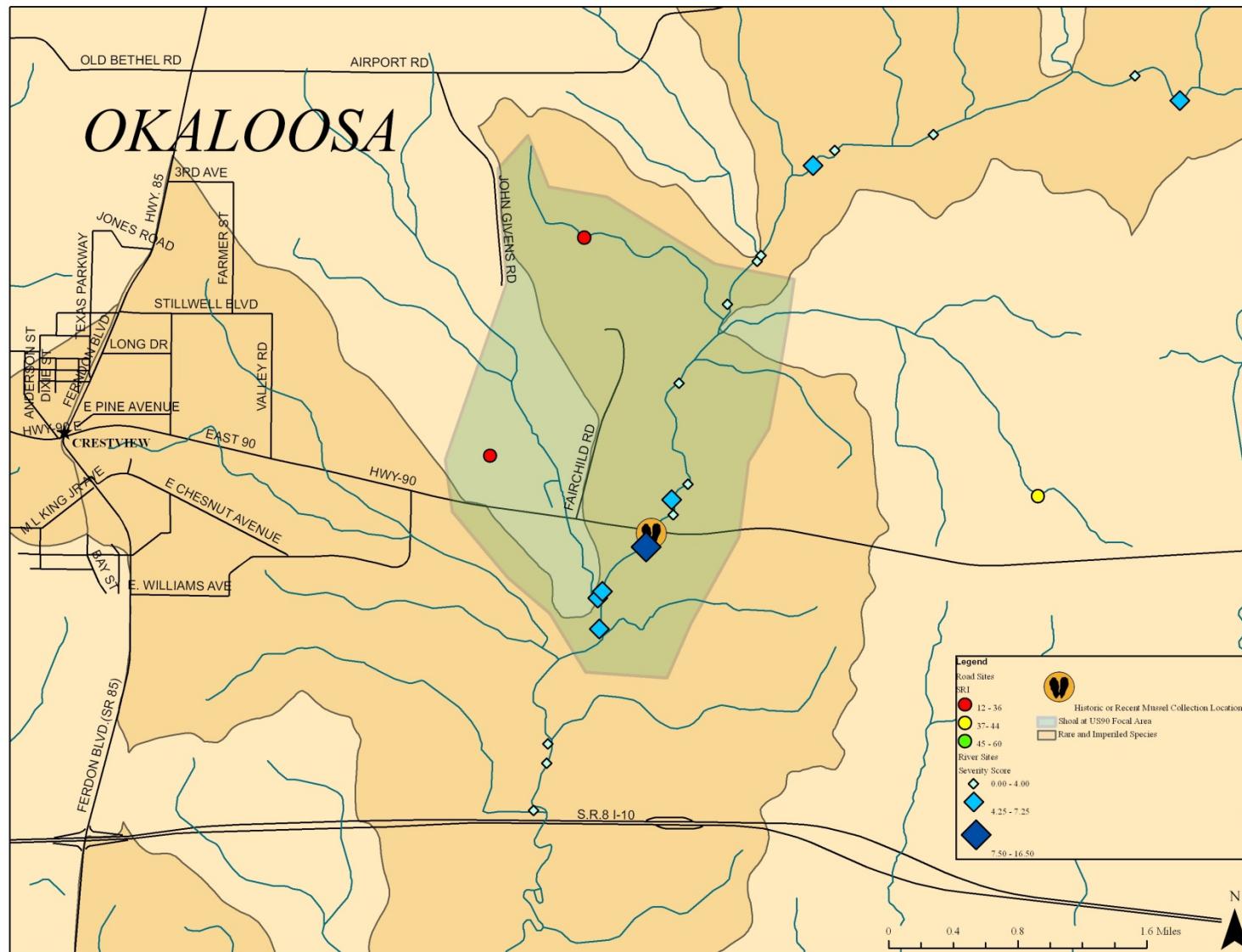
For example, sites used by Eglin AFB for training (ok-0225-001), boat launching (sr-1006-001), and recreation (ok-0319-001, aka “Little Gin Hole”) all had notable sediment risk potential.

Private land use such as trailers abutting the river’s edge (sr-0305-001) and designated trailer campgrounds (ok-0225-002) had similar impairments. Sites ranked “Low” had similar potential for sedimentation but were likely due to natural erosive features of the river.

The 20 impaired unpaved road crossings are comprised of three “High”, ten “Moderate”, and seven “Low” risk sites. Rattlesnake Road comprised all impaired unpaved road crossing sites in this focal area. These sites crossed named and unnamed small tributaries which drained directly the Yellow River, Shoal River, and Boiling Creek. Unpaved road crossings were identified as impaired primarily due to undersized and improperly positioned culverts and bare soils, ditches, and outlets. Sites ranked “High” were impaired primarily due to undersized and improperly placed culverts and bare soils. These factors resulted in loss of riverine habitat due to unnaturally ponded upstream condition, loss of downstream habitat diversity due to excessive sedimentation, and fish passage barriers (e.g., ok-0318-r-001). Sites ranked “Moderate” and “Low” were impaired by similar factors but to a lesser extent (e.g., ok-0318-r-006). High slopes of the unpaved road as it approaches these sites in combination with bare soils also contributed to site-specific impairments.

Shoal River at US-90 Focal Area.— The Shoal River at US-90 Focal Area is located approximately 1.5 miles east of the city of Crestview in the immediate vicinity of where US-90 crosses the Yellow River in Okaloosa County, FL (Fig. 15). We identified a total of 11 impaired sites, including nine impaired sites within the river corridor and two impaired unpaved

Figure 15. Shoal River at US-90 Focal Area.



road crossings (Appendix I). Impaired river and road sites are both publicly and privately owned.

Several priority resources and designations are located in or near to the Shoal River at US-90 Focal Area. The mainstem of the Shoal River and its tributaries in this focal area are within the range of three fishes listed among Florida's Rare and Imperiled Species. These fishes include the speckled chub, ironcolor shiner, and goldstripe darter (*Etheostoma parvipinne*). There are two collection localities of the candidate mussel Southern sandshell located up- and downstream of where US-90 crosses the Shoal River. This focal area overlaps priority wetlands habitat with 1 – 3 focal species in wetland areas in Florida. It is also within the Outstanding Florida Water designation for the Shoal River.

The nine impaired sites within the river corridor are comprised of one “High”, four “Moderate”, and four “Low” risk sites. All sites were located in the Shoal River. In general, river corridor sites were impaired primarily due to poor channel stability, recent channel alterations, and mass-wasting banks. Notable are a cluster of four sites, including the site ok-0423-001 (severity score = 11) and four “Moderate” ranked sites, located downstream from US-90. These sites contained large stretches of active mass-wasting banks on both sides of the river, as evidenced by the site condition at the time inventoried, aerial photography, and trees which were likely historically located on the river bank are now positioned in the middle of the channel. Several houses were located directly adjacent to the denuded riverbank approximately 50 yards downstream from US-90. Denuded riverbanks under large powerline crossings (e.g., ok-0616-008) also contributed to poor bank stabilization and high bank erosion potential. In addition, we consistently observed depths of 2-3 ft from bank-to-bank as far as 2.5 river miles downstream from US-90 (approximately to where I-10 crosses the Shoal River). Given the lack of habitat

heterogeneity and sinuosity in this reach, it is likely that the Shoal River has incurred a substantial loss of instream habitat due to excessive sedimentation from these sites. Other sites ranked “Moderate” and “Low” were impaired due to footpaths near to the riverbanks originating from US-90 and natural erosive features.

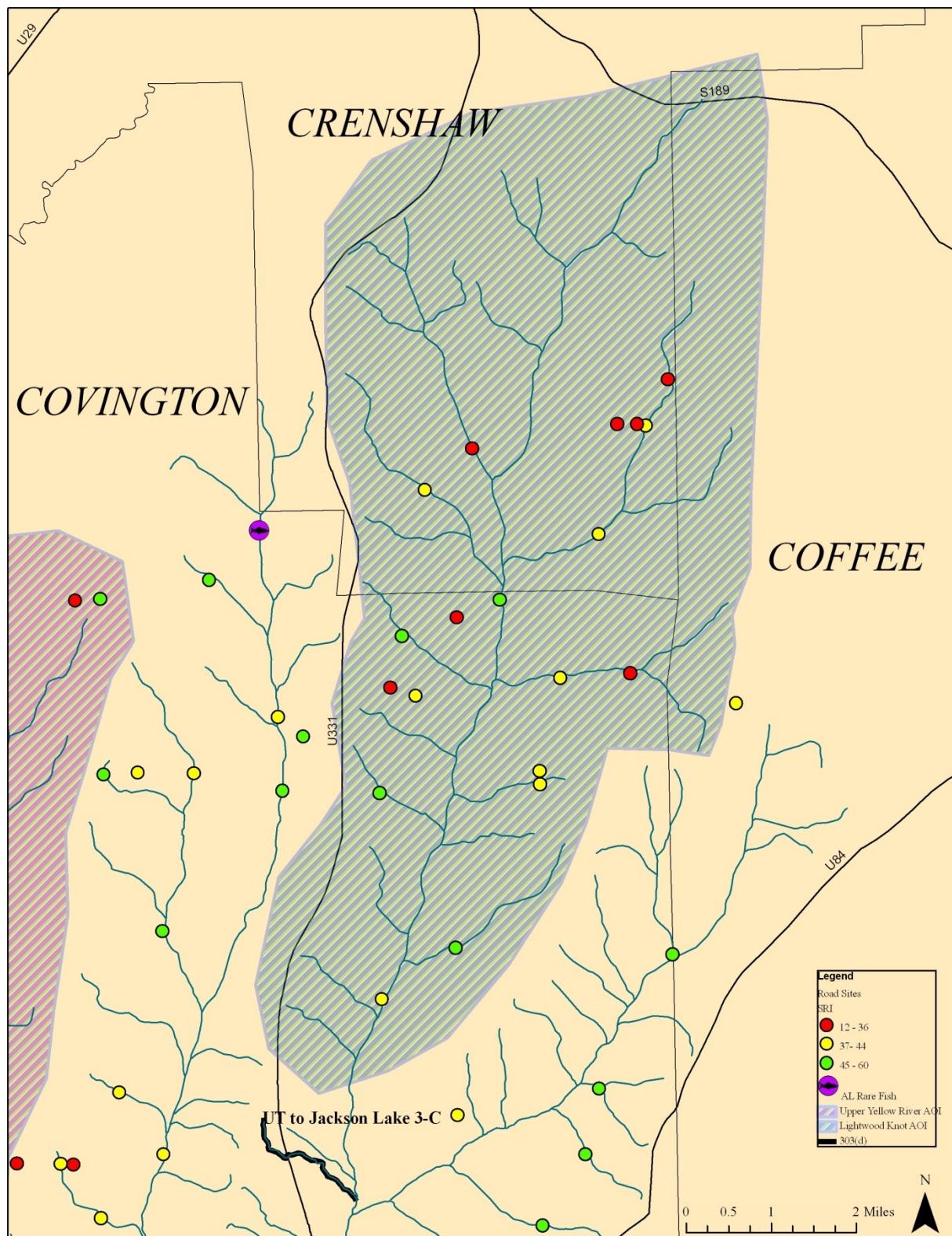
The two impaired unpaved road crossings are comprised of two “High” risk sites. Okaloosa County, FL unpaved roads in this focal area with impaired sites included Fairchild Road (1) and Hare Road (1). These sites crossed two tributaries to the Shoal River. Unpaved road sites were identified as impaired primarily due to existing or potential for sedimentation resulting from undersized and improperly positioned culverts and bare soils, ditches, and outlets. Both were characterized by loss of upstream riverine habitat from impounding due to undersized and improperly positioned culverts and loss of habitat downstream due to excessive sedimentation.

Areas of Interest

Lightwood Knot Area of Interest.— The Lightwood Knot Area of Interest consists of the headwaters of Lightwood Knot Creek, a tributary to the Yellow River located upriver from the Lake Jackson impoundment at the city of Opp, located in northeast Covington, southern Crenshaw, and northwest Coffee counties, AL (Fig. 16). We identified a total of 20 impaired unpaved road crossings; no impaired river corridor sites were identified (Appendix J). All impaired road sites were privately owned. There were no priority resources or designations located in or near to the Lightwood Knot Area of Interest.

The 20 impaired unpaved road crossings are comprised of seven “High”, nine “Moderate”, and four “Low” risk sites. Crenshaw County, AL, unpaved roads in this focal area with impaired sites included Barlow Road (2), Bell Crossing Road (2), Weaver Place Road (2),

Figure 16. Lightwood Knot Area of Interest.



Cauley Road (1), Fox Den Road (1), HDC Road (1), Hudson Road (1), Old Boggy Road (1), and Union Grove Road (1). Covington County, AL unpaved roads in this focal area with impaired sites included Kilcrease Road (3), Community Road (1), Morgan Mill Creek Road (1), Parker Creek Road (1), and Settlement Road (1). These sites crossed Blazer Branch and the mainstem of and small tributaries draining directly to Lightwood Knot Creek.

Unpaved road crossings were identified as impaired primarily due to undersized and improperly positioned culverts and bare soils, ditches, and outlets. Many streams which were at high risk for sedimentation were small tributaries. Sites ranked “High” and “Moderate” were commonly characterized by undersized culverts which were partially blocked, completely blocked, or buried by excessive sediment. In combination with high prism fill at many of these sites, this resulted in impounded upstream condition and subsequent loss of upstream habitat, fish passage barriers, and loss of downstream habitat heterogeneity due to excessive sedimentation. Several privately owned impoundments also impaired several sites in this area.

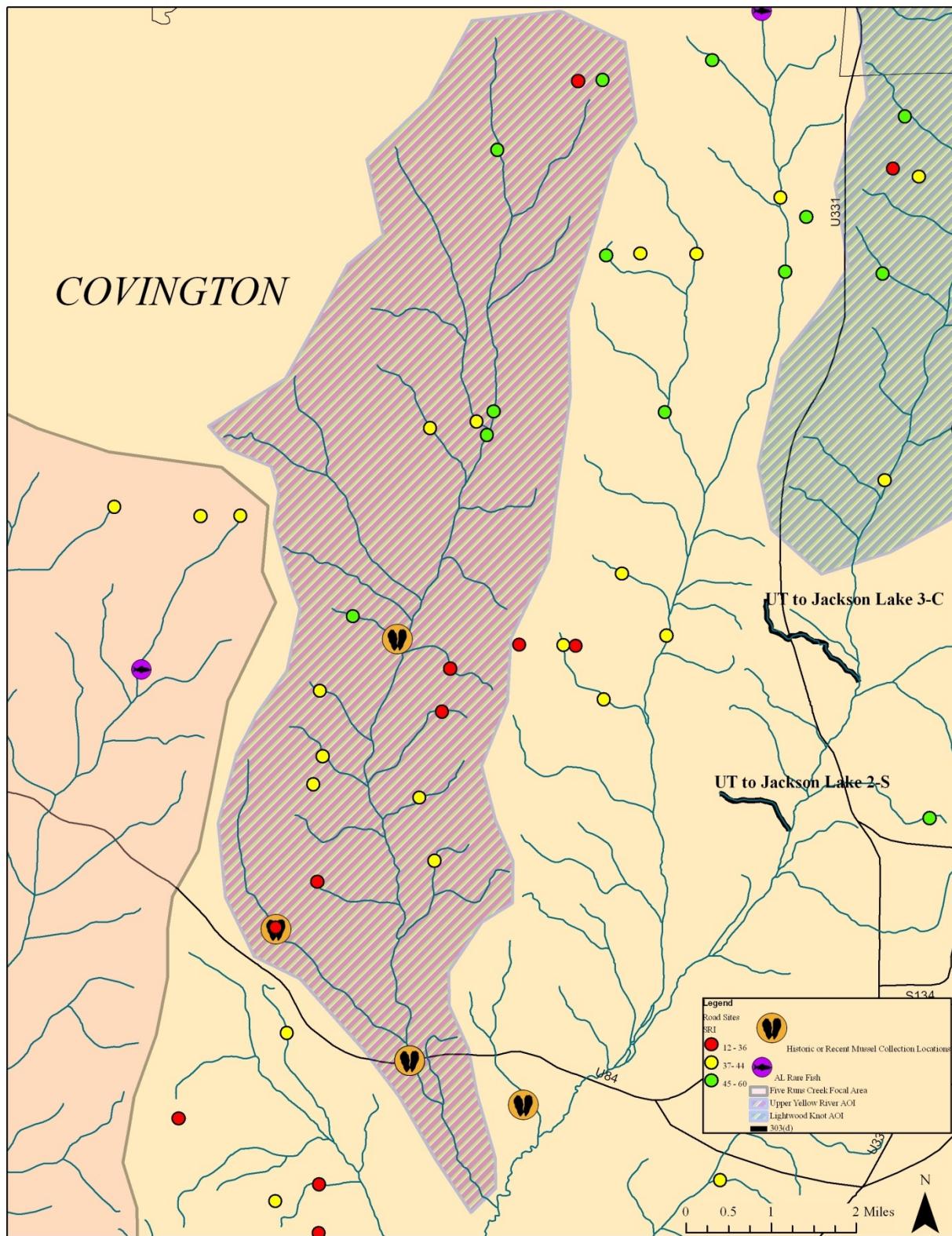
Although numerous sites were impaired, this was not considered a focal area because it lacked the combination priority resources and designations and threat of excessive sedimentation and related impairments compared to focal areas in the Yellow River drainage. There were no priority resources or designations located in or near to this area of interest and all impaired sites flow into Lake Jackson, a man-made impoundment on Lightwood Knot Creek. Sediment and other impairments affecting streams at all impaired sites are deposited in Lake Jackson and thus minimal impairments originating from these sites reaches the Yellow River. However, because this area of interest has been poorly surveyed for fishes and mussels historically, restoration at these road crossings could benefit rare and imperiled species should they be identified in future biological assessments.

Upper Yellow River Area of Interest.— The Upper Yellow River Area of Interest consists of the headwaters of the Yellow River proper, located in north-central Covington County, AL (Fig. 17). We identified a total of 19 impaired unpaved road crossings; no impaired river corridor sites were identified (Appendix K). All impaired road sites were privately owned. Two priority resources and designations are located in or near to the Upper Yellow River Area of Interest. This area of interest is located within the range of one of Alabama’s Rare and Imperiled Fishes, the ironcolor shiner. There are also three collection locations of the candidate mussel Southern sandshell in the mainstem of the upper Yellow River within this area of interest.

The 18 impaired unpaved road crossings are comprised of six “High”, seven “Moderate”, and five “Low” risk sites. Okaloosa County, FL unpaved roads in this area of interest with impaired sites included Old Dragstrip Road (3), Driver Road (2), Horner Smith Road (2), Houston Crossing Road (2), Lord Hill Road (2), Sasser Road (2), Southwind Road (2), E.J. Ready Road (1), Oliver Road (1), and Prestwood Road (1). These sites crossed the mainstem of and small tributaries draining directly to the upper Yellow River.

Unpaved road crossings were identified as impaired primarily due to undersized and improperly positioned culverts and bare soils, ditches, and outlets. Many streams which were at high risk for sedimentation were small tributaries. Sites ranked “High” and “Moderate” were commonly characterized by undersized culverts which were partially blocked, completely blocked, and buried by excessive sediment. In combination with high prism fill at many of these sites, this resulted in impounded upstream condition and subsequent loss of upstream habitat, fish passage barriers, and loss of downstream habitat heterogeneity due to excessive sedimentation. Several privately owned impoundments also impaired several sites in this area of

Figure 17. Upper Yellow River Area of Interest.

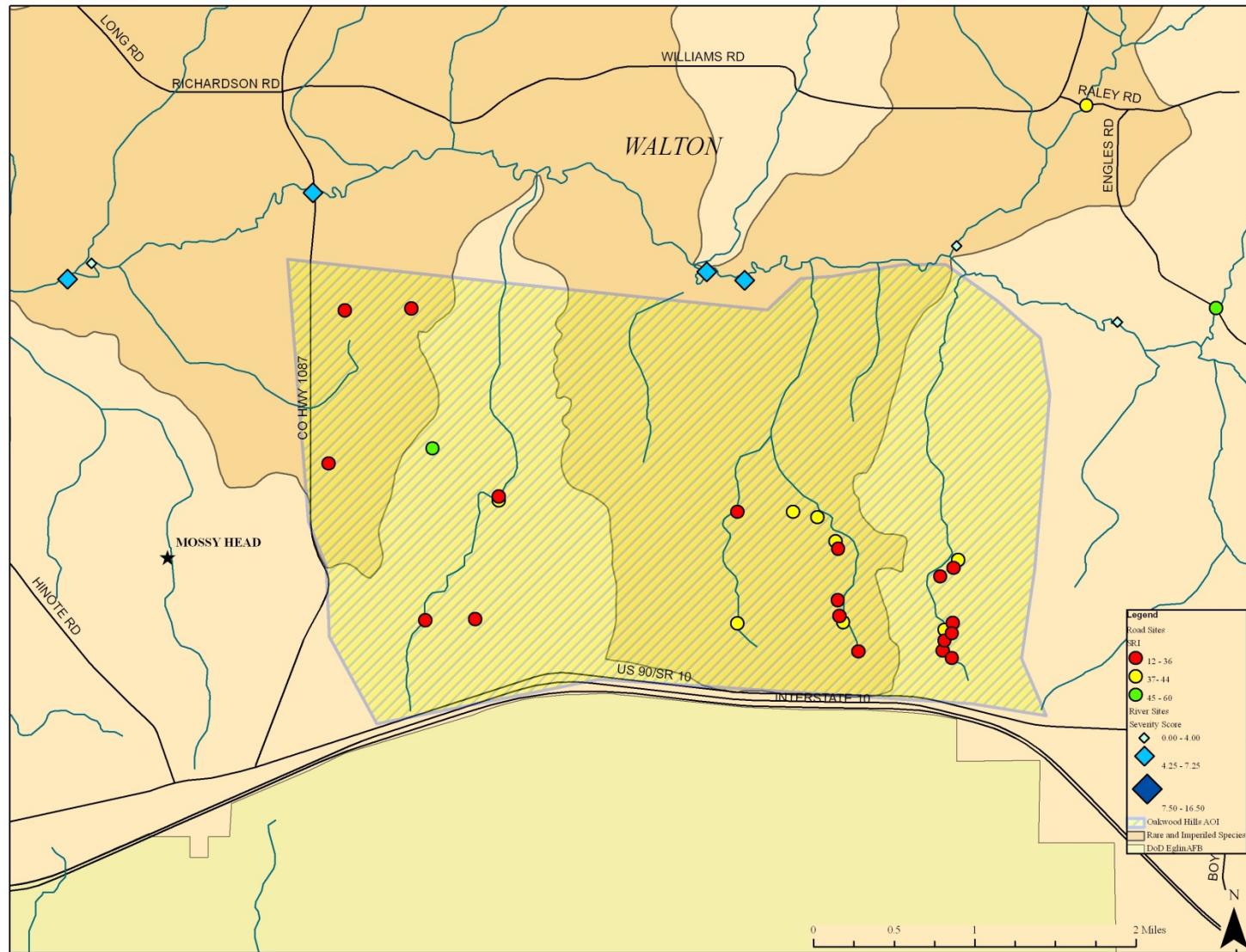


interest. Although numerous sites were impaired, this was not considered a focal area because it lacked the combination priority resources and designations and threat of excessive sedimentation and related impairments compared to designated focal areas in the Yellow River drainage. However, restoration of impaired road sites such as Houston Crossing could improve habitat conditions for the Southern sandshell mussel at the Hollis Creek road crossing collection locality (site co-0907-r-001).

Oakwood Hills Area of Interest.— The Oakwood Hills Area of Interest consists of impaired sites along several creeks and small tributaries draining northward to the upper Shoal River, located in eastern Walton County, FL (Fig. 18). It is named for a housing subdivision located 2.5 miles east of Mossy Head, FL. We identified a total of 30 impaired unpaved road crossings; no impaired river corridor sites were identified (Appendix L). All impaired road sites were privately owned. This area of interest is within the range of three fishes listed among Florida's Rare and Imperiled Species. These fishes include speckled chub, ironcolor shiner, and goldstripe darter. It also overlaps priority wetlands habitat with 1 – 3 focal species in wetland areas in Florida.

The 30 impaired unpaved road crossings are comprised of 11 “High”, 12 “Moderate”, and seven “Low” risk sites. Okaloosa County, FL unpaved roads in this area of interest with impaired sites included Trout Road (4), Blue Ridge Boulevard (3), Trout Drive (3), Adams Branch Road (2), Blue Ridge Road (2), Unnamed Road off of Squire Way (2), Unnamed Road (2), Amarylis Lane (1), Donna Lane (1), East Dogwood Drive (1), East Lakespur Avenue (1), Hollyhock Place (1), Mill Creek Road (1), Red Oak Road (1), Violet Road (1), and West Dogwood Road (1). These sites crossed Gum Creek, Battle Creek and their tributaries, and

Figure 18. Oakwood Hills Area of Interest.



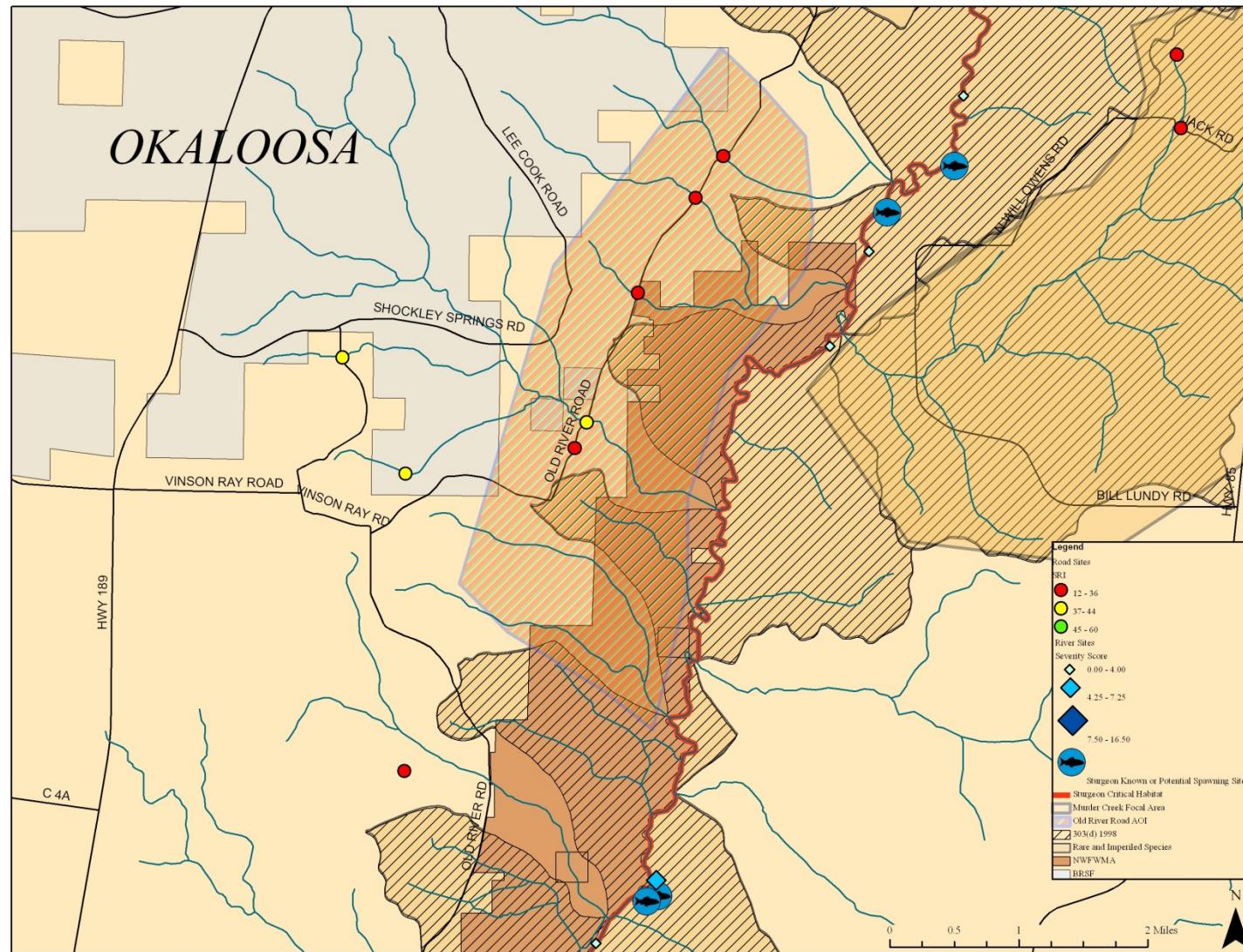
small tributaries to the Shoal River.

Unpaved road crossings were identified as impaired primarily due to undersized and improperly positioned culverts and bare soils, ditches, and outlets. Sites ranked “High” and “Moderate” were commonly characterized by undersized culverts which were partially blocked, completely blocked, or buried by excessive sediment. In combination with high prism fill at many of these sites, this resulted in impounded upstream condition and subsequent loss of upstream habitat, fish passage barriers, and loss of downstream habitat heterogeneity due to excessive sedimentation.

Although numerous sites were highly impaired, this was not considered a focal area because it lacked the combination of priority resources and designations and threat of excessive sedimentation and related impairments compared to designated focal areas in the Yellow River drainage. Nearly all streams at impaired locations flowed into privately owned, man-made impoundments located downstream from their respective impaired site. Aerial photography suggests that these impoundments are regulated by standpipes which drain surface waters to downstream culverts, which is a common water regulation practice for such impoundments in this drainage. Sedimentation entering streams at most locations is likely deposited in these impoundments and thus minimal sediment from these sites reaches the Shoal River. These sites, as well as the confluence of these streams and Shoal River, may need to be assessed in the future as growth in the Oakwood Hills subdivision and this area in general continues.

Old River Road Area of Interest.— The Old River Road Area of Interest is located in north-central Okaloosa, FL, 1.5 miles west of the Murder Creek Focal Area (Fig. 19). It is named for Old River Road, which crosses and impairs several tributaries which drain eastward

Figure 19. Old River Road Area of Interest.



into the Yellow River. We identified a total of five impaired unpaved road crossings; no impaired river corridor sites were identified (Appendix M). All impaired road sites were privately owned.

There are several priority resources and designations located in or near to the Old River Road Area of Interest. This area of interest is located within or directly drains to Gulf sturgeon critical habitat. It is also within the range of three fishes listed among Florida's Rare and Imperiled Species. These fishes include speckled chub, ironcolor shiner, and goldstripe darter. This focal area overlaps priority wetlands habitat with 1 – 3 focal species in wetland areas in Florida. It also drains directly to a stretch of the Yellow River from the Alabama-Florida border downstream to its confluence with the Shoal River which Florida has designated as impaired under the Clean Water Act Section 303(d) for dissolved oxygen, turbidity, and mercury (Okaloosa Co., Wbid 30A; FDEP 1998)

The five impaired unpaved road crossings are comprised of four “High” and one “Moderate” risk sites. Old River Road comprised all impaired unpaved road sites in this area of interest. These sites crossed Bear Branch, Deadfall Creek and one of its tributaries, Polley Creek, and Reedy Creek, which are collectively direct tributaries to the Yellow River. Unpaved road crossings were identified as impaired primarily due to poorly vegetated powerline crossings which runs parallel or near-to two sites, private impoundments which result in fish passage barriers and loss of upstream habitat, and undersized and improperly positioned culverts and bare soils, ditches, and outlets.

Although four of the five sites were highly impaired, this was not considered a focal area for several reasons. First, privately owned impoundments were present at or immediately upstream from three of the five impaired sites. Improvement of road conditions at these sites

would not restore upstream riverine habitat or fish passage unless these landowners would also agree to remove their impoundments and restore each stream channel. Second, sedimentation at these sites ultimately reaches the Yellow River in an area where it has an extensive floodplain. Aerial photography suggests that these confluences are well vegetated and sediment currently reaching this area is likely captured and assimilated before it impacts river directly. However, the proximity of these sites to several priority resources and designations suggests that road improvements and dam removals at these sites could benefit these resources, particularly the speckled chub, ironcolor shiner, and goldstripe darter.

Other sites not categorized as Focal Areas or Areas of Interest are listed in Appendix N.

Site Restoration

Based on the results of Phase I, we identified site number co-0610-001 in the Conecuh National Forest Focal Area as the location for site restoration (Appendix D). This location, known locally as “Dripping Rock”, is located on the western bank of the Yellow River approximately two miles downriver of Alabama State Highway 55, in Covington County, AL (Figs. 20 and 21). This location received a severity score of 4.25, resulting in a “Moderate” impairment ranking.

Although the site had generally ranked low for most Risk Factors, it had notable impairments for “Bank Erosion” and “Local NPSP (Non-Point Source Pollutants)”. Dripping Rock was characterized by a denuded and breached riverbank (Fig. 22) and an unpaved road (Fig. 23) which terminated at the site (Fig. 24). This site was accessible by the unpaved road and had substantial public use, property destruction, and vandalism along its banks from persons who trespassed over private property to reach the river (Fig. 25). Destruction of the riverbank by trespassers facilitated at least 60 tons of excess sediment per year from the unpaved road to

Figure 20. Dripping Rock (site co-0610-001; circled in red), Covington Co., AL. Photo courtesy Topozone.com



Figure 21. Plat map of Dripping Rock site showing property ownership. Green line represents unpaved road which leads from Covington County Road 24 (Open Pond Road) approximately 2,500 ft. south until it terminates at the Yellow River.

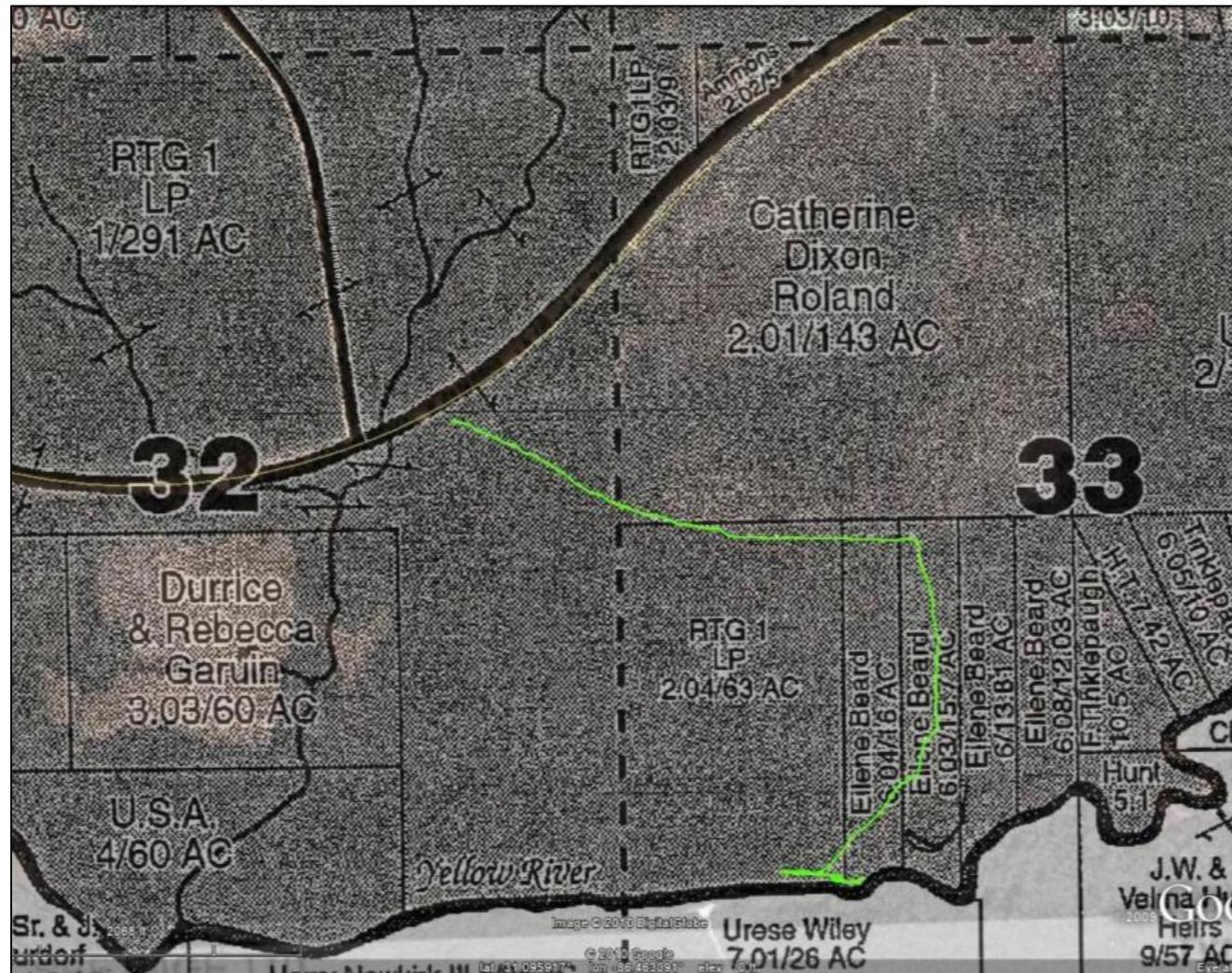


Figure 22. Denuded and breached riverbank at Dripping Rock. Photo credit: The Nature Conservancy.



Figure 23. Unpaved road leading to the Dripping Rock site. Photo credit: The Nature Conservancy.



Figure 24. Unpaved road terminating at the denuded and breached riverbank at Dripping Rock. Photo credit: Eilene Beard.



Figure 25. Degradation of the Dripping Rock site was caused by people using the unpaved road to



directly enter the river (Chris Metcalf, U.S. Fish and Wildlife Service, pers. comm.) (Fig. 26).

Sedimentation originating from the unpaved road and denuded riverbank is considered a “High ranking Sources of Stress” to softwater streams, categorized under the heading “roads” in the CWCS (FWC 2005). The State of Florida has previously identified this location as impacting Florida resources and recommended restoration at this site (FDEP 2002).

Dripping Rock is directly adjacent to one of five potential Gulf sturgeon spawning sites and is the only site from which sturgeon eggs have been documented in the Yellow River (USFWS 2001). Excessive sedimentation is believed to smother and degrade the natural limestone hard-bottom substrate – a rare feature in the basin – needed by Gulf sturgeon and likely other species for spawning in the Yellow River (Fig. 27). The U.S. Fish and Wildlife Service also identified the Southern sandshell (*Hamiota australis*) – one of the five mussels which are currently candidates for protection under the Endangered Species Act – at the site in 2011 (Sandy Pursifull, U.S. Fish and Wildlife Service, pers. comm.). The State of Florida has previously identified this location as impacting Florida resources and recommend restoration at this site (FDEP 2002). In addition, the State of Florida has identified this drainage in both Alabama and Florida as an important conservation unit for Gulf sturgeon and recommend habitat restoration for long-term recovery and conservation of its stocks (Wakeford 2001). The cost of restoring this site was estimated as relatively low in comparison to similar river restoration actions (Appendix O). In total, we selected the Dripping Rock site for restoration given the combination of factors above, particularly the potential to optimize benefit to multiple, sensitive species within a rare but ecologically important geologic area of the river which was being directly degraded by a large amount of excess sedimentation.

Figure 26. Breached riverbank showing sediment pollution from the unpaved road directly entering the Yellow River. Photo credit: The Nature Conservancy.



Figure 27. Limestone substrate (shown here exposed due to low river stage) used for spawning by Gulf sturgeon, approximately 0.25 mi. downstream of Dripping Rock. Photo credit: U.S. Fish and Wildlife Service.



We restored the riverbank as well as the unpaved road leading to the riverbank at Dripping Rock from July 5 – 10, 2011. Although the site is accessible to the public from the Yellow River, we worked with several private landowners to access and stabilize the unpaved road which traversed their properties and was the source of sediment pollution at the site. We used standard unpaved road and river corridor restoration techniques according to restoration designs drafted by the U.S. Fish and Wildlife Service, Panama City Field Office (Appendix O). River corridor was restored by grading, stabilizing & revegetating the breached bank to floodplain level, rather than rebuilding & reconnecting to the adjacent natural levee, in order to help reduce sheer stress from natural rises in river levels thereby reducing chance of failure (Fig. 28). The unpaved road was stabilized by grading, filling, and seeding (Fig. 29). Specifically, we (1) stabilized the length of the impacted streambank and floodplain using natural fiber erosion control cloth; (2) provided native shrub and tree material planting along the stream corridor for future stabilization and habitat recovery; (3) seeded all exposed areas of the road and riverbank with annual and perennial plants; and (4) installed heavy duty gate at road entrance to minimize continued human-induced degradation of the Dripping Rock area (Fig. 30). Materials and supplies for completing the restoration included erosion control fabric for short-term sediment/bank stabilization; stakes for setting the erosion control fabric; trees, shrubs, herbaceous plants, and temporary seed for revegetation and long-term sediment/bank stabilization, and fill dirt for assuring necessary grade; and substrate for long-term revegetation and site stabilization. Figures 31 –36 show pre- and post-restoration photo comparisons at Dripping Rock. See Appendix O for further restoration design and implementation details.

Figure 28. Restored river corridor showing a contoured terrace within the floodplain stabilized with native grasses, shrubs, and trees. Picture taken four days following restoration. Photo credit: U.S. Fish and Wildlife Service.



Figure 29. Unpaved road leading to Dripping Rock was stabilized by grading, filling, and seeding. Photo credit: The Nature Conservancy.



Figure 30. Heavy duty gate installed at entrance to unpaved road from Covington County Road 24 (Open Pond Road) to minimize continued human-induced degradation of the Dripping Rock area. Photo credit: The Nature Conservancy.



Figure 31. Comparison of unpaved road condition before (A) and after (B) restoration at Dripping Rock. Photo credit: The Nature Conservancy.



Figure 32. Comparison of condition of the unpaved road terminus at the breached riverbank, facing north towards the road, before (A) and after (B) restoration at Dripping Rock. Photo credit: The Nature Conservancy.



Figure 33. Comparison of condition of the unpaved road terminus at the breached riverbank, facing west along the riverbank, before (A) and after (B) restoration at Dripping Rock. Photo credit: The Nature Conservancy.



Figure 34. Comparison of condition of the unpaved road terminus at the breached riverbank, facing south towards the Yellow River, before (A) and after (B) restoration at Dripping Rock. Photo credit: Eilene Beard (A) and The Nature Conservancy (B).



Figure 35. Comparison of condition of the breached riverbank before (A) and after (B) restoration at Dripping Rock. Photo credit: The Nature Conservancy.



Figure 36. Comparison of condition of the breached riverbank, looking up-slope from the Yellow River, before (A) and after (B) restoration at Dripping Rock.



Expected benefits of restoring the Dripping Rock site include: (1) recovery of in-stream habitat for spawning Gulf sturgeon; (2) recovery of native aquatic biota typical to Yellow River stream ecosystems, such as flow-dependent fish and macroinvertebrate species; (3) restoration of natural in-stream water quality and sediment dynamics, which influence the aquatic preserve as described above; (4) increased resilience of aquatic species' populations to population fluctuations; (5) restoration of stream corridor habitat for long-term recovery of the natural riparian vegetation community of this stream system; (6) aesthetic improvement of habitat from degraded to recovered condition; and (7) improvement to condition and management of public resources. The Nature Conservancy and U.S. Fish and Wildlife Service will monitor the restoration success at this site, including future estimates of sedimentation, Gulf sturgeon spawning habitat use, and mussel habitat use.

DISCUSSION

In general, rivers and streams in the Yellow River Basin flow through a relatively undeveloped landscape. However, results of this study suggest that impairments resulting from existing development may be degrading its aquatic resources. Excessive sedimentation was particularly pervasive at the impaired sites identified in the study, which is consistent with threats identified nearby drainages (USFWS 2005a, Witmer et al. 2009). All impaired river corridor sites exhibited similar risk factors regardless of drainage position. Most river corridor sites with a severity ranking of "Moderate" or "High" were impaired primarily due to poor channel stability, recent channel alteration, active or mass-wasting bank erosion, and/or high or extremely high BEHI score (other risk factors such as pipe discharge, water odors, and fish passage barriers were relatively rare). These factors are strongly influenced by geology and underlying bed material, with smaller-sized substrates, such as the sand and clay which typifies the bank and bed

materials of rivers and streams in the Yellow River Basin, at greater risk than larger-sized materials (Rosgen 1996). These sites were commonly near road crossings, land clearings, power lines, and/or similar land use actions which denuded the river banks and further undermined riverbank stability. In contrast, most river corridor sites with a “Low” severity score ranking were typically natural erosion or depositional features of the river or stream. However, the magnitude of these features might be influenced by excessive sedimentation originating from impaired sites upriver. The Shoal River at US-90 focal area exemplified this phenomenon, where several highly impaired sites with long reaches of ongoing mass wasting resulted in the loss of instream habitat and unusually large point-bar development miles downstream from these sites. Considering that river corridor sites with a ranking of “High” were relatively few (6%) and “Low” ranking sites comprised the majority of identified sites (63%), impairments within the river corridor are generally uncommon within the approximately 209 river miles assessed during the study.

Impaired unpaved road crossing sites also exhibited similar risk factors regardless of drainage position. Unpaved roads were more highly impaired than river corridor sites, with SRI rankings of “Moderate” (47%) or “High” (29%) indicating an elevated threat for sedimentation to the streams they crossed. These sites were impaired primarily due to undersized and improperly positioned culverts and bare soils, ditches, and outlets risk factors. These factors commonly resulted in partially or completely blocked culverts, loss of upstream habitat due to subsequent impounding, and loss of downstream habitat heterogeneity due to excessive sedimentation characterized by sediment islands and bank scouring at impaired sites. Fish passage was often noted as limited or prohibited due to these conditions (though this was not calculated in the SRI). Single roads frequently impaired multiple road and occasionally river

corridor sites (e.g., Rattlesnake Road), suggesting that sediment stabilization, paving, and/or similar restoration actions for such roads might have a collective conservation benefit. Although most unpaved roads crossed small tributaries, the cumulative sediment loading across these sites may substantially degrade the tributaries they feed and the Yellow River mainstem. Unpaved roads therefore may present the most widespread, pervasive source of excessive sedimentation in the Yellow River Basin.

Fish passage barriers and loss of in-stream habitat and connectivity may result from the thousands of small impoundments estimated throughout the Yellow River Basin. We acknowledge that our methodology likely misidentifies, mis-categorizes, and/or overlooks potential impoundments. However, we believe this estimation is accurate enough to illustrate the pervasiveness of impoundments caused by (1) unpaved road sites which unintentionally created impounded upstream conditions as observed at numerous field sites, and (2) deliberate construction of private and public impoundments in the basin. Such dams and impoundments pose among the most significant threats to freshwaters, commonly causing substantial changes to riverine habitats and flow patterns with significant losses of biodiversity in affected systems (see Hart and Poff 2002 and references therein). While our estimation may seem large, the National Inventory of Dams has cataloged more than 79,000 dams in the USA, and estimate as many as two million unidentified dams and tens of millions of unidentified culverts resulting in fish passage barriers nationwide (USACE 2005). Populations of biological communities such as fish and mussels – including those prioritized during this study – are likely impacted by these impoundments. Additionally, these impoundments likely exacerbate habitat and ecological degradation already resulting from excessive sedimentation in the basin. Given these resources and the need to restore riverine corridors, habitat, and connectivity under ongoing climate change

(Palmer et al. 2009, Seavy et al. 2009), a more robust analysis of impoundments and their ecological effects in the Yellow River Basin is warranted.

MANAGEMENT RECOMMENDATIONS

There are 479 impaired river corridor and unpaved road crossing sites in the Yellow River Basin. Excessive sedimentation is the primary cause of impairment at nearly all of these sites, a pattern consistent with recent examinations of rivers and streams in other nearby drainage basins. Focusing future resource conservation, restoration, and management efforts in specific areas can maximize the potential to restore priority ecological resources and designations while minimizing the cost for completing restoration actions (i.e., the “biggest bang for the buck”). As such, we recommend that efforts be concentrated in the seven Focal Areas identified in this study. Focal areas with a large proportion of public ownership, such as the Rattlesnake Road and the Conecuh National Forest focal areas, may present the most immediate and viable opportunities for restoration. This is because (1) public funding is more readily available in greater amounts for restoration actions on public lands and sovereign resources, (2) state and federal agencies managing these areas generally have greater restoration experience than private landowners, and (3) the number of parties needed to approve restoration at multiple sites is significantly reduced under one or a few public managing agencies responsible for those areas. It should be noted, however, that while private entities may own the lands abutting river corridor sites and unpaved road crossings, the counties, states, and federal government usually have ownership and/or jurisdiction over sovereign river resources and the unpaved road crossings themselves. An exception to this may be the Clear Creek Watershed Focal Area, where one private entity – Rayonier Forest Resources LP, of Rayonier, Inc. – owns most impaired sites in

that area. Restoration in this focal area may be therefore more similar to areas which are publicly owned for the reasons stated above.

We strongly encourage restoration at multiple sites under one project as stated above.

Unpaved roads, which contribute to the greatest and most severe number of impairments, may be the best targets for restoration. We recommend targeting unpaved roads which affect multiple sites to provide maximum reduction in excessive sedimentation and benefit to priority ecological resources and designations. High-priority roads include:

- Rattlesnake/Rattlesnake Bluff/Eglin AFB 211 Road (Rattlesnake Road Focal Area)
- Bass, Hogsfoot, and Sanders roads (Conecuh National Forest Focal Area)
- Tram /Johnsons Quarters Road (Clear Creek Watershed Focal Area)
- Bass Bridge Road (Five Runs Creek Focal Area)
- Union Church Road (Pond Creek Watershed Focal Area).

We also recommend initiating improvements at highly impaired river corridor sites. Although these sites tend to contribute excessive sediment to a lesser degree than unpaved road sites, stabilization can provide substantial conservation benefit, especially when completed in tandem with nearby unpaved road sites. The Phase II restoration of site co-0610-001 (“Dripping Rock”) in the Conecuh National Forest Focal Area is an excellent example of such targeted, high-leverage restoration actions. Other high priority sites include:

- All river corridor sites ranked “High” and “Moderate” in the Rattlesnake Road Focal Area (especially if combined with unpaved road restoration)
- All river corridor sites ranked “High” and “Moderate” in the Shoal River at US-90 Focal Area.

Focal areas may provide heretofore unrecognized mitigation potential for future public and private construction, roads, and related projects. Few mitigation sites have been identified in the Yellow River Basin (see Yellow River Ranch Mitigation Area located 1.5 mi. downstream of the Rattlesnake Road Focal Area in Santa Rosa County, FL for an exception). This study provides hundreds of localities where impairments to rivers, streams, and wetlands have been assessed and prioritized using standard methods. These sites can be used to further develop mitigation credits and plans in both Alabama and Florida. We recommend that any future mitigation investigation be focused within the focal areas identified herein.

The development of explicit, detailed, engineering-level stream restoration designs will be necessary to once sites are actively targeted for restoration. Fortunately, there are numerous, high-quality guides to enacting riverine and road restoration actions that can ameliorate the threats identified in this study. Rosgen (1996) provides excellent foundational information on patterns and influence of environmental and anthropogenic factors in river channel development, degradation, and restoration. The Natural Resources Conservation Service has developed specific guidelines for all aspects of stream and stream corridor restoration, from identification to assessment to implementation (FISRWG 1998). The North Carolina State Stream Restoration Institute also provides similar guidelines with examples of restoration techniques which are applicable to impaired sites within the Yellow River Basin (Doll et al. 2003). Other state and federal agencies such as the U.S. Forest Service and the U. S. Fish and Wildlife Service also provide techniques for designing and implementing river and road crossing restoration to improve bank stability, decrease erosion, and improve in-stream connectivity at sites. USFWS (2005b) is an excellent resource specifically written to address and fix the problems of excessive sedimentation at these crossings in northwest Florida. This manual details methods for

stabilizing soils, managing runoff and sedimentation, constructing properly sized and positioned bridges and culverts, and restoration designs for reducing excessive sedimentation, increase instream habitat diversity. These resources were used in combination for the Phase II restoration during this project. We strongly encourage resource managers to consult these references when considering restoration practices aimed at reducing the threats that impact the Yellow River and its tributaries.

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Appendix A. River corridor severity scores for impaired sites in the Yellow River Basin, Alabama and Florida

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Left Floodplain Access	Pipe Discharge	Water Odors	Bank Erosion	BEHI	Fish Passage Blocked	Total Score
ok-1105-001	1	1	1	0.75	0.75	0.75	0.25	1.5	0	1.5	1.5	1	1.5	1.5	12.5
wa-1007-001	1	1.5	1.5	0.75	0.75	0.75	0.75	1.5	0	0	1	1	1.5	1.5	12
ok-0423-001	1.5	1.5	1	0	0.75	0	0.75	1.5	0	1.5	1.5	1	0	1.5	11
wa-1026-001	1	1.5	1	0.75	0.75	0.75	0.25	1.5	0	0	1	0.5	1.5	1.5	10.5
ok-0928-001	0.5	1.5	0.5	0.75	0.75	0.25	0.25	1.5	0	0	1	1	1.5	1.5	9.5
ok-0928-004	1.5	1	1	0.75	0.75	0.25	0.25	1.5	0	0	1	1	1	0	9
ok-0225-005	0.5	1.5	0	0.75	0	0.75	0	1.5	0	1.5	0.5	1	0	0	8
ok-0615-001	1	1.5	1	0	0.75	0.25	0	1.5	0	0	1	0.5	0	0	7.5
wa-1105-004	0	1	1	0.5	0.5	0	0	1.5	1.5	0	0	0	1.5	1.5	7.5
co-0813-004	1.5	1	0	0	0.75	0	0.75	0	0	0	1.5	1.5	0	0	7
ok-0423-003	1	1	1	0.75	0.75	0.25	0.25	0	0	0	0	1	1	0	7
ok-1106-001	0.5	1.5	1	0.75	0.75	0	0	1.5	0	0	0	1	0	0	7
wa-1007-003	0.5	1	1	0.75	0.75	0	0	1.5	0	0	1	0.5	0	0	7

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score														
														ok-0225-002	wa-0720-001	ok-0423-004	ok-1105-002	sr-0304-001	sr-0305-001	co-0819-002	wa-1026-002	ok-0225-001	ok-0422-007	wa-1009-002	co-0807-008	co-0824-002	ok-0319-001	ok-0424-004
ok-0225-002	0.5	1.5	0	0.75	0	0	0	1.5	0	1.5	0.5	0.5	0	6.75														
wa-0720-001	1	1.5	0.5	0	0.75	0	0	1.5	0	0	0.5	1	0	6.75														
ok-0423-004	1	0	0	0.75	0.75	0.75	0.75	0	0	0	1.5	1	0	6.5														
ok-1105-002	1.5	0	0	0.25	0.75	0.25	0.75	0	0	0	1.5	1.5	0	6.5														
sr-0304-001	0	1.5	0	0.75	0	0	0	1.5	0	1.5	0.5	0.5	0	6.25														
sr-0305-001	1	1.5	0	0.75	0	0	0	1.5	0	0	1	0.5	0	6.25														
co-0819-002	0.5	1.5	0.5	0.75	0.75	0	0	1.5	0	0	0	0.5	0	6														
wa-1026-002	1.5	0.5	0	0	0.75	0	0.75	0	0	0	1.5	1	0	6														
ok-0225-001	0.5	1	0	0	0.75	0	0	1.5	0	0	1	1	0	5.75														
ok-0422-007	0.5	1	0	0.5	0.75	0	0.25	0	0	1.5	0.5	0.5	0	5.5														
wa-1009-002	0.5	1	1	0.25	0.25	0.25	0.25	1.5	0	0	0.5	0	0	5.5														
co-0807-008	1	1	0	0	0	0	0.25	1.5	0	0	1	0.5	0	5.25														
co-0824-002	0.5	1	0	0.75	0	0	0	1.5	0	0	1	0.5	0	5.25														
ok-0319-001	0.5	1	0	0	0.75	0	0	1.5	0	0	1	0.5	0	5.25														
ok-0424-004	1	1	0	0	0	0	0.25	1.5	0	0	1	0.5	0	5.25														

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score													
														co-0807-009	ok-0424-003	ok-0608-001	ok-0615-008	wa-1007-002	ok-0319-006	ok-0416-003	ok-0615-007	ok-1105-003	wa-1028-001	co-0924-002	co-0924-003	ok-0615-006	ok-0616-006
co-0807-009	1	0	0	0.75	0	0.75	0	0	0	0	1.5	1	0	5													
ok-0424-003	0.5	1	0	0	0.75	0	0.25	0	0	0	1.5	0	1	0	5												
ok-0608-001	1	0	0	0	0.75	0	0.75	0	0	0	0	1.5	1	0	5												
ok-0615-008	1	0	0	0	0.75	0	0.75	0	0	0	0	1	1.5	0	5												
wa-1007-002	0.5	1.5	0.5	0.25	0.25	0	0	1.5	0	0	0	0	0.5	0	5												
ok-0319-006	1.5	0	0	0	0.5	0	0.25	0	0	0	0	1.5	1	0	4.75												
ok-0416-003	1.5	0	0	0	0	0.75	0	0	0	0	0	1.5	1	0	4.75												
ok-0615-007	1	0	0	0.75	0	0.75	0.25	0	0	0	0	1	1	0	4.75												
ok-1105-003	1	0	0	0.25	0.75	0	0.75	0	0	0	0	1	1	0	4.75												
wa-1028-001	1	0	0	0.75	0	0.75	0.25	0	0	0	0	1	1	0	4.75												
co-0924-002	1	1	0	0	0	0	0	0	0	0	0	1.5	1	0	4.5												
co-0924-003	0.5	0	0.5	0.75	0	0.25	0	1.5	0	0	0	0	1	0	4.5												
ok-0615-006	1	0	0	0.75	0	0.75	0	0	0	0	0	1	1	0	4.5												
ok-0616-006	1.5	0	0	0	0	0.25	0.25	0	0	0	0	1.5	1	0	4.5												
ok-0616-008	1	0	0	0.75	0.75	0.25	0.25	0	0	0	0.5	1	0	4.5													

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score													
														ok-1007-004	wa-0720-003	wa-1009-003	wa-1028-002	co-0610-001	ok-0609-012	ok-0615-004	ok-0615-014	sr-1006-001	ok-0416-001	ok-0424-002	ok-0424-006	ok-0608-007	ok-0615-010
ok-1007-004	0.5	1	0.5	0.25	0.25	0	0	1.5	0	0	0	0.5	0	4.5													
wa-0720-003	0.5	0.5	0	0.75	0	0.75	0	0	0	0	0	1	1	0	4.5												
wa-1009-003	1	0	0	0.75	0	0.75	0	0	0	0	0	1.5	0.5	0	4.5												
wa-1028-002	1	0	0	0.75	0	0.75	0	0	0	0	0	1	1	0	4.5												
co-0610-001	0.5	1.5	0	0.75	0	0	0	0	0	0	0	1	0.5	0	4.25												
ok-0609-012	1	0	0	0	0	0.25	0	1.5	0	0	0	1	0.5	0	4.25												
ok-0615-004	1	0	0	0	0.75	0.25	0.25	0	0	0	0	1	1	0	4.25												
ok-0615-014	0.5	1.5	0	0.75	0.75	0.25	0	0	0	0	0	0.5	0	0	4.25												
sr-1006-001	0.5	1	0	0	0.75	0	0	1.5	0	0	0	0	0.5	0	4.25												
ok-0416-001	1.5	0	0	0	0	0	0	0	0	0	0	1.5	1	0	4												
ok-0424-002	0	1	0	0	0.75	0	0.25	1.5	0	0	0	0	0.5	0	4												
ok-0424-006	1.5	0	0	0.75	0	0	0.25	0	0	0	0	1	0.5	0	4												
ok-0608-007	1	0	0	0	0.75	0	0.25	0	0	0	0	1	1	0	4												
ok-0615-010	1	0	0	0.75	0	0.75	0	0	0	0	0	0.5	1	0	4												
ok-0616-002	1	0	0	0	0.75	0.75	0	0.75	0	0	0	0.5	1	0	4												

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score
ok-1022-001	1	0	0	0.75	0	0.75	0	0	0	0	1	0.5	0	4
co-0805-005	1	0	0	0	0.5	0	0.25	0	0	0	1	1	0	3.75
co-0923-003	1.5	0	0	0	0	0	0.25	0	0	0	1	1	0	3.75
ok-0319-002	0.5	1	0	0	0.75	0	0	0	0	0	1	0.5	0	3.75
ok-0922-003	0.5	1.5	0	0	0.25	0	0	1.5	0	0	0	0	0	3.75
co-0923-001	1	0	0	0	0.75	0	0.25	0	0	0	1	0.5	0	3.5
ok-0225-003	1	0.5	0	0	0	0	0	0	0	0	1	1	0	3.5
ok-0421-003	1	0	0	0	0.75	0	0.75	0	0	0	0	1	0	3.5
ok-0615-005	1	0	0	0	0	0.25	0.25	0	0	0	0	1	1	3.5
ok-0615-011	1	0	0	0.75	0	0.75	0	0	0	0	0.5	0.5	0	3.5
wa-0720-002	1	0.5	0	0.75	0	0.25	0	0	0	0	0.5	0.5	0	3.5
co-0813-003	1	0	0	0.75	0	0	0	0	0	0	1	0.5	0	3.25
ok-0423-007	1.5	0	0	0.75	0	0	0	0	0	0	0	1	0	3.25
co-0807-001	0.5	0	0	0	0.25	0	0.25	0	0	0	1	1	0	3
ok-0615-003	1	0	0	0	0.75	0	0.25	0	0	0	0	1	0	3

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score														
														ok-0616-001	ok-0616-007	ok-0922-001	ok-0922-002	wa-0721-001	co-0807-006	co-0924-004	ok-0422-006	ok-0609-011	ok-0609-014	ok-0615-009	ok-0928-002	co-0807-003	co-0813-001	co-0824-004
ok-0616-001	0.5	0	0	0.75	0	0.25	0	0	0	0	0.5	1	0	3														
ok-0616-007	1	0.5	0	0	0	0	0	0	0	0	0.5	1	0	3														
ok-0922-001	0.5	0.5	0	0	0	0	0	0	0	1.5	0	0	0.5	0	3													
ok-0922-002	0.5	0	0	0.75	0	0.75	0	0	0	0	0.5	0.5	0	3														
wa-0721-001	0.5	1	0	0	0.25	0	0.25	0	0	0	0.5	0.5	0	3														
co-0807-006	0.5	0	0	0	0	0	0.25	0	0	0	0	1	1	0	2.75													
co-0924-004	1	0	0	0	0	0.25	0	0	0	0	1	0.5	0	2.75														
ok-0422-006	0.5	1.5	0	0	0.75	0	0	0	0	0	0	0	0	2.75														
ok-0609-011	1	0	0	0	0	0	0.25	0	0	0	0	1	0.5	0	2.75													
ok-0609-014	1	0	0	0	0	0	0.25	0	0	0	0	1	0.5	0	2.75													
ok-0615-009	1	0	0	0	0	0.25	0	0	0	0	0	1	0.5	0	2.75													
ok-0928-002	0.5	1.5	0	0	0.25	0	0	0	0	0	0	0	0.5	0	2.75													
co-0807-003	0.5	0	0	0	0.25	0	0.25	0	0	0	0	1	0.5	0	2.5													
co-0813-001	0.5	0	0	0	0	0	0	0	0	0	0	1	1	0	2.5													
co-0824-004	0.5	0	0	0.5	0	0	0	0	0	0	0	1	0.5	0	2.5													

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Blocked Passage Fish	Total Score	
ok-0224-001	1	0	0	0	0	0	0	0	0	0	1	0.5	0	2.5	
ok-0319-007	1	0	0	0	0	0	0	0	0	0	1	0.5	0	2.5	
ok-0423-008	1.5	0	0	0	0	0	0	0	0	0	0	1	0	2.5	
ok-0424-005	1.5	0	0	0	0	0	0	0	0	0	0	1	0	2.5	
ok-0424-008	1.5	0	0	0	0	0	0	0	0	0	0	1	0	2.5	
ok-0424-009	1.5	0	0	0	0	0	0	0	0	0	0	1	0	2.5	
ok-0609-015	1	0	0	0	0	0	0	0	0	0	1	0.5	0	2.5	
ok-0616-004	1	0	0	0	0	0.25	0.25	0	0	0	0.5	0.5	0	2.5	
ok-0616-005	0.5	0.5	0	0	0	0.25	0.25	0	0	0	0.5	0.5	0	2.5	
co-0805-004	0.5	0	0	0	0	0.25	0	0	0	0	1	0.5	0	2.25	
co-0924-001	0.5	0	0	0	0	0.25	0	0	0	0	1	0.5	0	2.25	
wa-1026-003	0.5	0	0	0	0	0	0.25	0	0	0	1	0.5	0	2.25	
wa-1026-004	0.5	1.5	0	0.25	0	0	0	0	0	0	0	0	0	2.25	
co-0609-005	1	0	0	0	0	0	0	0	0	0	0	1	0	2	
co-0609-007	1	0	0	0	0	0	0	0	0	0	0	1	0	2	

													Total Score
													Fish Passage Blocked
													BEHI
													Bank Erosion
													Pipe Discharge
													Water Odors
													Shoring Structures
													Left Floodplain Access
													Right Floodplain Access
													Left Buffer
													Right Buffer
													Channel Alteration
													Local NPSP
													Channel Stability
													Site Number
co-0824-005	0.5	1	0	0	0	0	0	0	0	0.5	0	0	2
co-0923-002	0.5	0	0	0	0	0	0	0	0	1	0.5	0	2
ok-0422-003	1.5	0	0	0	0	0	0	0	0	0	0.5	0	2
ok-0422-005	1.5	0	0	0	0	0	0	0	0	0	0.5	0	2
ok-0608-006	0.5	0	0	0	0.25	0	0.25	0	0	0	0.5	0.5	0
ok-0616-003	0.5	0	0	0	0	0.25	0.25	0	0	0	0.5	0.5	0
ok-0721-003	0.5	0	0	0	0	0	0	0	0	0	1	0.5	0
ok-0721-005	0.5	0	0	0	0	0	0	0	0	0	1	0.5	0
sr-0305-005	1	0	0	0	0	0	0	0	0	0	0.5	0.5	0
wa-0721-002	0.5	0	0	0	0.25	0.25	0	0	0	0	0.5	0.5	0
wa-1009-001	0.5	0	1	0	0	0	0	0	0	0	0.5	0	0
co-0609-008	1	0	0	0	0	0.25	0	0	0	0	0.5	0	1.75
co-0805-001	0.5	0	0	0	0	0.25	0	0	0	0	0.5	0.5	0
co-0805-002	0.5	0	0	0	0.25	0	0	0	0	0	0.5	0.5	0
co-0805-003	0.5	0	0	0	0.25	0	0	0	0	0	0.5	0.5	0

Site Number	Channel Stability	Local NPSP	Channel Alteration	Right Buffer	Left Buffer	Right Floodplain Access	Left Floodplain Access	Shoring Structures	Water Odors	Pipe Discharge	Bank Erosion	BEHI	Fish Passage Blocked	Total Score													
														co-0807-002	co-0807-004	co-0807-005	co-0807-007	ok-0423-006	ok-0928-003	wa-0720-004	co-0609-004	co-0609-010	co-0813-002	co-0824-003	ok-0224-002	ok-0422-001	ok-0424-010
co-0807-002	0.5	0	0	0	0	0.25	0	0	0	0	0.5	0.5	0	1.75													
co-0807-004	0.5	0	0	0	0	0.25	0	0	0	0	0.5	0.5	0	1.75													
co-0807-005	0.5	0	0	0	0	0	0.25	0	0	0	0.5	0.5	0	1.75													
co-0807-007	0.5	0	0	0	0	0	0.25	0	0	0	0.5	0.5	0	1.75													
ok-0423-006	1	0	0	0	0	0.25	0	0	0	0	0	0.5	0	1.75													
ok-0928-003	0.5	0	0	0	0	0.25	0	0	0	0	0	1	0	1.75													
wa-0720-004	0.5	0	0	0	0	0.25	0	0	0	0	0.5	0.5	0	1.75													
co-0609-004	0.5	0	0	0	0	0	0	0	0	0	0.5	0.5	0	1.5													
co-0609-010	0.5	0.5	0	0	0	0	0	0	0	0	0.5	0	0	1.5													
co-0813-002	0.5	0	0	0	0	0	0	0	0	0	0.5	0.5	0	1.5													
co-0824-003	0.5	0	0	0	0	0	0	0	0	0	0.5	0.5	0	1.5													
ok-0224-002	0.5	0	0	0	0	0	0	0	0	0	0.5	0.5	0	1.5													
ok-0422-001	1.5	0	0	0	0	0	0	0	0	0	0	0	0	1.5													
ok-0424-010	0.5	0	0	0	0	0	0	0	0	0	0.5	0.5	0	1.5													
ok-0608-003	0.5	0	0	0	0	0	0	0	0	0	0.5	0.5	0	1.5													

													Total Score
													Fish Passage Blocked
													BEHI
													Bank Erosion
													Pipe Discharge
													Water Odors
													Shoring Structures
													Left Floodplain Access
													Right Floodplain Access
													Left Buffer
													Right Buffer
													Channel Alteration
													Local NPSP
													Channel Stability
Site Number													
ok-0608-005	0.5	0	0	0	0	0	0	0	0	0	1	0	1.5
sr-0305-004	1	0	0	0	0	0	0	0	0	0.5	0	0	1.5
co-0609-002	0.5	0	0	0	0	0	0	0	0	0.5	0	0	1
co-0819-001	0.5	0	0	0	0	0	0	0	0	0.5	0	0	1
ok-0609-013	0.5	0	0	0	0	0	0	0	0	0.5	0	0	1
ok-0721-004	0.5	0	0	0	0	0	0	0	0	0	0.5	0	1
co-0824-001	0	0	0.5	0	0	0	0	0	0	0	0	0	0.5

Appendix B. Sediment Risk Index scores for unpaved road crossings in the Yellow River Basin, Alabama and Florida.

Crossing ID	Soil K Factor	Potential Erod Mean	Avg Approach Slope	Road Approach Material	DS Channel Morph	US Channel Morph	DS Bank Alteration	Upstream Skew Angle	Crossing fill condition	InletOutlet Condition	Upstream Lt Outlet	Upstream Rt Ditch	Downstream Rt Outlet	Downstream Lt Ditch	Ditches Total	Ditches If Total	SRI Total						
																	Outlet Total	Outlet If Total	Ditches If Total				
ok-0429-r-014	5	1	3	3	1	1	1	1	1	1	1	1	0	0	0	0	2	3	0	1	22		
wa-0707-r-002	5	1	1	1	1	1	5	1	1	3	0	0	0	0	0	0	0	0	1	0	22		
wa-0707-r-005	5	1	3	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	4	5	0	1	22
co-1029-r-008	5	5	3	3	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	1	24	
co-1029-r-010	3	5	3	1	1	5	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	24	
ok-1005-r-001	3	1	3	1	3	5	1	1	1	3	0	0	0	0	0	0	0	0	0	1	0	24	
wa-0617-r-004	5	1	3	1	3	3	1	1	1	1	1	1	0	0	1	0	0	3	3	0	1	24	
wa-0625-r-002	3	3	3	1	1	5	1	3	1	1	0	0	0	0	0	0	0	0	0	1	0	24	
wa-0706-r-003	5	1	3	1	1	1	1	3	1	3	0	0	0	0	0	0	0	1	0	1	1	24	
cr-1103-r-002	3	3	3	1	1	5	1	3	1	3	0	0	0	0	0	0	0	0	0	1	0	26	
ok-0429-r-010	5	1	3	3	1	3	1	3	1	3	0	0	0	0	0	0	0	0	0	1	0	26	
ok-0429-r-012	5	1	3	1	1	5	1	5	1	1	0	0	0	0	0	0	0	0	0	0	1	26	
wa-0716-r-009	5	1	3	1	1	1	1	5	1	5	0	0	0	0	0	0	0	0	0	1	0	26	

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
co-0731-r-008	5	1	3	3	1	5	1	1	3	0	0	0	1	0	0	1	3	0	1	28			
co-0812-r-002	5	1	3	5	3	1	1	3	1	3	0	0	0	0	0	0	0	1	0	28			
co-0820-r-003	3	1	3	5	3	5	1	3	1	1	0	0	0	0	0	0	0	0	1	0	1	28	
ok-0429-r-009	5	3	3	1	3	1	3	1	1	5	0	0	0	0	0	0	0	0	1	0	1	28	
ok-0512-r-004	5	1	3	1	1	3	1	5	1	3	0	0	0	0	1	1	0	0	2	3	0	1	28
wa-0625-r-006	5	3	3	3	1	1	3	1	1	1	1	0	0	1	1	0	0	4	5	0	1	28	
wa-0706-r-001	5	5	5	3	1	1	1	1	3	1	0	0	0	0	0	0	0	0	1	0	1	28	
wa-0714-r-004	5	5	1	3	5	1	1	3	1	1	0	0	0	0	0	0	0	0	1	0	1	28	
co-0810-r-017	3	5	3	3	3	1	1	3	1	3	1	0	0	0	1	0	0	2	3	0	1	30	
co-0812-r-009	5	5	5	3	1	3	1	1	1	3	0	0	0	0	0	0	0	0	1	0	1	30	
co-0831-r-005	5	1	3	5	3	3	1	1	1	3	0	0	0	0	1	0	0	1	3	0	1	30	
co-0901-r-012	5	1	3	3	5	5	1	1	1	3	0	0	0	0	0	0	0	0	0	1	0	1	30
co-1027-r-003	5	1	3	1	5	3	1	5	1	3	0	0	0	0	0	0	0	0	0	1	0	1	30
ok-0429-r-005	5	5	3	5	1	3	1	1	1	1	0	0	0	0	1	1	0	0	2	3	0	1	30

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
ok-0429-r-008	5	1	3	3	1	1	1	1	5	3	1	1	0	0	1	1	0	0	4	5	0	1	30
ok-0429-r-016	5	1	3	1	1	5	1	3	1	5	0	0	0	0	0	1	0	0	1	3	0	1	30
ok-1005-r-004	5	3	3	3	1	1	1	3	3	3	1	1	0	0	0	1	0	0	3	3	0	1	30
wa-0706-r-002	5	3	3	3	1	5	1	1	1	3	0	1	0	0	1	1	0	0	3	3	0	1	30
wa-0707-r-006	5	5	3	1	1	1	1	5	1	3	0	0	0	0	1	1	0	0	2	3	0	1	30
wa-0707-r-007	5	1	1	1	5	3	3	5	1	1	0	0	0	0	1	1	0	0	2	3	0	1	30
co-0812-r-011	5	3	3	3	3	3	3	1	1	3	1	1	0	0	1	0	0	0	3	3	0	1	32
co-0820-r-002	5	1	3	3	5	5	1	3	1	3	0	0	0	0	0	0	0	0	0	0	1	0	32
co-0820-r-010	5	1	3	5	5	5	1	1	1	3	0	0	0	0	0	0	0	0	0	0	1	0	32
co-0831-r-001	5	1	3	5	3	5	1	3	1	3	0	0	0	0	0	0	0	0	0	0	1	0	32
co-0831-r-004	5	3	3	5	5	1	1	1	1	3	1	1	0	0	1	0	0	0	3	3	0	1	32
co-0831-r-013	3	3	3	3	3	5	1	3	1	3	0	0	0	0	0	1	0	0	1	3	0	1	32
co-1027-r-004	5	3	3	1	1	5	1	5	3	3	0	0	0	0	0	0	0	0	0	0	1	0	32
co-1102-r-002	5	5	3	3	5	1	1	3	1	3	0	0	0	0	0	0	0	0	0	0	1	0	32

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
ok-0415-r-001	3	1	3	1	5	3	1	5	1	3	0	1	0	0	0	1	1	1	3	2	3	32	
ok-0512-r-006	5	1	3	5	3	3	3	3	1	3	0	0	0	0	0	0	0	0	0	1	0	32	
wa-0714-r-008	5	1	3	5	3	1	1	3	3	3	0	0	0	0	1	1	0	0	2	3	0	32	
wa-0716-r-002	3	5	3	3	1	5	1	3	3	3	0	0	0	0	0	0	0	0	0	1	0	32	
wa-0723-r-001	3	1	3	5	1	5	3	1	1	5	0	0	0	0	1	1	0	0	2	3	0	32	
wa-0727-r-002	5	5	3	3	1	3	1	5	1	3	0	0	0	0	0	0	0	0	0	1	0	32	
wa-0727-r-006	5	5	3	1	3	3	1	5	1	3	0	0	0	0	0	0	0	0	0	0	1	32	
co-0731-r-004	5	1	3	3	3	5	1	3	3	3	1	1	0	0	0	0	0	0	2	3	0	34	
co-0731-r-011	5	3	3	3	3	3	1	3	3	3	1	0	0	0	1	1	0	0	3	3	0	34	
co-0810-r-015	5	5	5	1	1	5	1	1	3	3	0	0	0	0	0	1	0	0	1	3	0	34	
co-0810-r-019	3	5	3	3	1	5	1	3	1	3	0	0	0	1	1	1	0	0	2	3	2	34	
co-0811-r-004	5	5	3	1	3	3	1	3	5	3	0	0	0	0	0	0	0	0	0	0	1	34	
co-0820-r-005	3	5	3	5	3	3	1	3	1	3	1	1	0	0	0	0	0	0	0	2	3	0	34
co-0901-r-014	5	5	3	3	5	5	1	1	1	3	0	0	0	0	0	0	0	0	0	0	1	0	34

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
co-0904-r-004	5	5	3	3	1	5	1	1	3	3	1	1	0	0	0	0	0	2	3	0	1	34	
co-0904-r-005	3	5	3	1	5	5	1	5	1	3	0	0	0	0	0	0	0	0	1	0	1	34	
co-0904-r-013	5	5	3	3	3	5	1	1	1	1	1	1	1	0	1	0	1	3	3	3	3	34	
co-0904-r-014	5	5	3	1	1	3	1	3	3	5	1	0	0	0	1	0	0	2	3	0	1	34	
co-1027-r-007	5	3	3	3	1	5	1	3	1	5	0	0	0	0	1	0	0	0	1	3	0	1	34
cr-1103-r-004	3	5	3	3	5	5	1	3	1	3	0	0	0	0	0	0	0	0	0	1	0	1	34
ok-0407-r-007	5	1	3	3	1	5	1	1	5	5	0	0	0	0	1	1	0	0	2	3	0	1	34
ok-0512-r-002	5	1	3	1	3	3	3	5	1	5	1	0	0	0	1	1	0	0	3	3	0	1	34
ok-0512-r-003	5	1	3	1	1	1	1	5	5	1	1	0	0	1	1	0	0	4	5	0	1	34	
ok-0526-r-007	5	3	3	5	1	3	1	3	1	3	1	1	0	0	1	1	0	0	4	5	0	1	34
sr-0414-r-001	5	1	3	3	5	5	3	5	1	1	0	0	0	0	0	0	0	0	0	1	0	1	34
wa-0626-r-005	5	5	3	1	1	5	1	5	1	5	0	0	0	0	0	0	0	0	0	1	0	1	34
wa-0707-r-003	5	1	1	1	1	3	5	3	1	5	1	1	1	0	1	1	1	0	4	5	2	3	34
wa-0714-r-009	5	1	3	5	3	5	1	3	1	3	0	0	0	0	1	0	0	0	1	3	0	1	34

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
wa-0716-r-003b	5	5	3	3	3	3	1	5	1	3	0	0	0	0	0	0	0	0	1	0	1	34	
wa-0716-r-006	5	5	3	3	5	1	1	5	1	1	0	1	0	0	0	0	0	0	1	3	0	1	34
wa-0716-r-010	5	5	3	1	3	3	1	5	1	3	0	0	0	0	0	0	1	1	0	1	2	3	34
wa-0727-r-003	5	5	3	5	1	5	1	5	1	1	0	0	0	0	0	0	0	0	0	1	0	1	34
wa-0727-r-004a	5	5	3	3	3	5	1	1	1	5	0	0	0	0	0	0	0	0	0	0	1	0	34
wa-0727-r-004b	5	5	3	3	3	3	1	5	1	3	0	0	0	0	0	0	0	0	0	0	1	0	34
co-0729-r-001	5	1	3	3	3	5	3	3	1	5	0	0	0	0	1	0	0	0	1	3	0	1	36
co-0731-r-006	5	1	3	3	5	5	1	5	1	3	1	1	0	0	0	0	0	0	2	3	0	1	36
co-0810-r-005	5	5	3	5	3	3	3	1	1	1	1	1	0	0	0	0	0	0	2	3	1	3	36
co-0810-r-016	5	3	5	3	1	5	1	3	1	3	0	0	0	0	1	1	1	1	2	3	2	3	36
co-0831-r-003	5	5	3	5	3	3	3	1	3	0	0	0	0	0	0	0	0	0	0	1	0	1	36
co-0901-r-018	5	1	3	5	5	5	1	5	1	3	0	0	0	0	0	0	0	0	0	0	1	0	36
co-0904-r-015	3	5	3	3	1	5	1	1	3	3	1	1	1	1	1	1	1	1	0	0	4	5	36
Co-0907-r-001	5	1	3	3	3	3	1	5	5	3	0	1	0	0	1	0	0	0	2	3	0	1	36

Crossing ID	SRI Total																					
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor
co-0907-r-002	5	5	3	5	1	5	1	5	1	3	0	0	0	0	0	0	0	0	1	0	1	36
co-1027-r-005	5	1	3	3	5	1	1	5	3	3	1	0	0	0	1	1	1	1	3	2	3	36
co-1102-r-014	5	5	3	3	1	5	1	3	5	3	0	0	0	0	0	0	0	0	0	1	0	36
co-1103-r-007	3	5	3	3	1	1	3	5	3	5	1	1	0	0	0	1	0	0	3	3	0	36
co-1104-r-003	3	5	3	3	5	5	3	5	1	1	0	0	0	0	0	0	0	0	0	1	0	36
cr-1102-r-011	5	1	3	1	3	5	3	5	1	5	0	1	0	0	0	0	0	0	0	1	3	36
cr-1103-r-005	5	5	3	3	5	5	1	5	1	1	0	0	0	0	0	0	0	0	0	1	0	36
ok-0318-r-001	5	1	3	1	5	3	3	5	5	3	0	0	0	0	0	0	0	0	0	0	1	36
ok-0429-r-002	3	5	3	3	3	3	1	3	3	3	1	1	0	0	1	1	0	0	4	5	0	36
ok-0528-r-002	5	3	3	1	3	3	1	5	5	3	0	0	0	0	1	1	0	0	2	3	0	36
ok-0528-r-008	5	1	3	3	3	3	3	1	3	5	1	1	0	0	1	1	0	0	4	5	0	36
wa-0617-r-005	5	1	3	1	5	3	3	3	1	5	0	1	1	0	1	1	0	0	3	3	1	36
wa-0625-r-003	5	1	3	1	5	3	3	5	1	5	1	1	0	0	0	0	0	0	2	3	0	36
wa-0716-r-004	5	5	3	5	5	3	1	3	1	3	0	0	0	0	0	0	0	0	0	1	0	36

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
wa-0716-r-011	5	5	3	1	5	5	1	5	1	3	0	0	0	0	0	0	0	0	1	0	1	36	
wa-1005-r-005	3	3	3	1	1	5	3	5	3	5	1	1	0	0	1	0	0	0	3	3	0	1	36
co-0729-r-005	5	3	3	3	5	3	3	3	5	1	1	1	0	0	0	0	0	0	2	3	0	1	38
co-0810-r-001	5	1	1	5	5	5	1	3	3	3	1	1	0	0	1	1	0	0	4	5	0	1	38
co-0810-r-006	5	5	3	3	3	5	1	3	1	5	0	0	0	0	0	0	1	0	0	1	1	3	38
co-0810-r-014a	5	1	3	5	3	3	1	5	1	5	1	1	0	0	1	1	0	0	4	5	0	1	38
co-0810-r-014b	5	1	3	5	5	5	1	1	1	5	1	1	0	0	1	1	0	0	4	5	0	1	38
co-0812-r-013b	5	1	3	5	5	5	5	3	1	3	0	0	0	0	0	0	0	0	0	1	0	1	38
co-0820-r-006	5	5	3	5	5	3	1	3	1	3	1	0	0	0	1	1	0	0	3	3	0	1	38
co-0820-r-007	5	1	3	5	3	5	3	3	1	5	1	1	0	0	0	1	0	0	3	3	0	1	38
co-0831-r-010	5	3	3	3	5	5	3	3	1	3	0	0	1	1	0	0	0	0	0	1	2	3	38
co-0904-r-003	5	5	3	3	3	5	1	3	1	5	0	1	0	0	0	0	0	0	1	3	0	1	38
co-0907-r-005	5	5	3	3	3	5	1	5	3	3	0	0	0	0	0	0	0	0	0	1	0	1	38
co-1103-r-009	3	5	3	5	3	3	1	3	1	5	0	1	0	1	0	0	0	0	1	3	1	3	38

Crossing ID	SRI Total																					
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor
co-1104-r-004	5	5	3	5	3	3	3	5	3	1	0	0	0	0	0	0	0	0	1	0	1	38
cr-1103-r-003	3	5	3	3	3	5	3	3	1	3	0	1	1	0	0	1	0	1	2	3	2	38
ok-0429-r-001	5	5	3	5	1	5	1	3	1	5	0	1	0	0	0	0	0	0	1	3	0	38
ok-0526-r-005	5	3	3	5	3	5	1	1	1	5	1	1	0	0	1	0	1	0	3	3	1	38
ok-0528-r-006	5	5	3	3	3	5	3	5	1	3	0	0	0	0	0	0	0	0	0	1	0	38
ok-1005-r-002	5	1	3	3	1	5	1	5	5	5	0	0	0	0	1	1	0	0	2	3	0	38
wa-0617-r-003	5	5	5	3	1	1	1	3	3	5	0	1	0	0	1	0	1	0	2	3	1	38
wa-0714-r-007	5	1	3	5	5	5	1	5	1	3	1	1	0	0	0	0	0	0	2	3	0	38
wa-0716-r-001	5	5	5	1	3	5	1	3	1	3	0	1	1	0	1	0	0	0	2	3	1	38
wa-0716-r-003a	5	5	3	3	5	5	1	5	1	3	0	0	0	0	0	0	0	0	0	1	0	38
wa-0716-r-005	5	5	3	5	3	3	1	5	1	3	0	0	0	0	0	1	0	0	1	3	0	38
wa-0722-r-008	5	1	3	3	3	3	3	3	3	5	1	1	0	0	1	1	0	0	4	5	0	38
wa-0723-r-002	3	1	3	5	5	5	3	5	1	5	0	0	0	0	0	0	0	0	0	1	0	38
cf-1103-r-008	3	3	3	5	5	5	3	3	1	5	1	1	0	0	0	0	0	0	2	3	0	40

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
co-0731-r-001	5	1	3	5	3	3	3	5	5	3	0	1	0	0	1	1	0	0	3	3	0	1	40
co-0810-r-002	5	5	1	5	5	5	1	3	1	3	1	0	0	0	1	0	1	0	2	3	1	3	40
co-0810-r-009	5	5	3	3	3	3	1	3	3	5	1	1	0	0	1	1	0	0	4	5	0	1	40
co-0810-r-011	5	5	3	5	3	3	1	3	1	3	1	1	1	0	1	1	0	0	4	5	1	3	40
co-0810-r-018	5	5	3	5	5	3	1	3	1	3	0	1	1	0	1	0	1	1	2	3	3	3	40
co-0810-r-021	5	5	3	3	5	5	1	5	1	3	0	1	0	0	1	0	0	0	2	3	0	1	40
co-0812-r-001	5	1	3	5	1	5	1	5	5	5	1	1	0	0	0	0	0	0	2	3	0	1	40
co-0812-r-013a	5	1	3	5	3	3	5	5	1	5	1	0	0	0	0	0	0	0	1	3	0	1	40
co-0820-r-004	5	3	3	5	5	5	1	5	1	3	1	1	0	0	1	0	0	0	3	3	0	1	40
co-0820-r-008	5	5	3	5	5	3	1	5	1	3	0	0	0	0	1	1	0	0	2	3	0	1	40
co-0831-r-008	5	5	5	5	3	5	1	3	1	3	0	0	0	0	1	1	0	0	2	3	0	1	40
co-0901-r-013	5	5	1	3	3	5	5	1	3	3	0	1	0	1	1	1	1	1	3	3	3	3	40
co-0904-r-010	5	5	3	3	5	5	1	5	3	3	0	0	0	0	0	0	0	0	0	0	0	1	40
co-0904-r-012	5	5	3	1	5	5	1	5	3	3	1	0	0	0	0	1	0	0	2	3	0	1	40

Crossing ID	SRI Total																							
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor		
co-0907-r-004	5	1	3	1	5	5	3	5	5	3	1	1	0	0	0	0	0	0	2	3	0	1	40	
co-1027-r-006	5	1	3	1	5	5	3	5	3	5	0	1	0	0	0	1	0	0	2	3	0	1	40	
co-1027-r-008	5	1	3	1	3	5	1	5	3	5	1	1	0	1	1	1	1	0	4	5	2	3	40	
co-1029-r-006	5	5	3	3	3	5	1	5	1	3	0	0	0	0	0	1	1	0	1	3	1	3	40	
co-1103-r-010	5	3	3	3	3	3	1	5	5	5	1	1	0	0	0	0	0	0	2	3	0	1	40	
co-1103-r-011	3	1	3	1	5	5	3	5	5	5	1	0	0	0	1	0	0	0	2	3	0	1	40	
ok-0407-r-006	5	1	3	1	5	5	3	3	5	5	1	0	0	0	0	1	0	0	2	3	0	1	40	
ok-0407-r-008	5	1	3	1	5	5	5	5	1	5	1	0	0	0	0	0	0	0	0	1	3	0	1	40
ok-0429-r-003	5	5	3	5	5	5	3	3	1	1	1	0	0	0	1	1	0	0	3	3	0	1	40	
ok-0429-r-004	5	5	3	5	5	5	3	1	1	5	0	0	0	0	0	0	0	0	0	0	1	0	40	
ok-0429-r-007	5	5	3	5	1	5	1	3	1	5	1	1	0	0	1	1	0	0	4	5	0	1	40	
ok-0429-r-015	5	1	3	1	5	5	3	5	5	3	1	1	0	0	1	0	0	0	3	3	0	1	40	
ok-0512-r-005	5	1	3	1	5	5	5	3	5	5	0	0	0	0	0	0	0	0	0	1	0	1	40	
ok-0526-r-002	5	5	5	1	1	3	1	3	5	3	1	1	0	0	1	1	1	1	0	4	5	1	3	40

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
ok-0526-r-006	5	5	3	5	3	5	3	1	1	5	1	0	0	1	0	0	0	2	3	0	1	40	
ok-0526-r-011	5	3	3	3	5	5	5	3	1	5	0	0	0	0	0	0	0	0	1	0	1	40	
ok-0617-r-007	5	1	3	5	3	3	1	3	5	5	1	1	0	0	1	1	0	0	4	5	0	1	40
sr-0401-r-001	5	5	3	5	1	5	1	5	1	5	1	1	0	0	0	0	0	0	2	3	0	1	40
sr-0414-r-005	5	1	3	5	1	5	3	5	5	5	0	0	0	0	0	0	0	0	0	1	0	1	40
wa-0626-r-004	3	3	3	3	3	3	5	5	3	5	1	1	0	0	0	0	0	0	2	3	0	1	40
wa-0707-r-004	5	5	1	1	5	5	3	5	5	3	0	0	0	0	0	0	0	0	0	0	1	0	40
wa-0714-r-002	3	1	3	1	5	5	5	5	3	5	1	1	0	0	0	1	0	0	3	3	0	1	40
wa-0714-r-006	5	3	3	3	5	3	1	3	5	3	1	1	0	0	1	1	0	0	4	5	0	1	40
wa-0714-r-010	5	1	3	1	3	3	5	5	3	5	1	1	0	0	1	1	0	0	4	5	0	1	40
wa-0716-r-007	5	3	3	5	5	3	1	5	3	5	0	0	0	0	0	0	0	0	0	1	0	1	40
wa-0716-r-008	5	5	3	3	5	5	1	3	5	3	0	0	0	0	0	0	0	0	0	0	1	0	40
wa-0722-r-003	3	3	5	3	1	3	1	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	40
wa-0727-r-001	5	5	3	5	5	5	1	5	1	3	0	0	0	0	0	0	0	0	0	1	0	1	40

Crossing ID	SRI Total																							
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor		
wa-0727-r-005	5	3	1	3	5	5	5	5	1	5	0	0	0	0	0	0	0	0	1	0	1	40		
co-0729-r-004	5	5	3	5	5	5	1	5	1	3	1	0	0	0	0	0	0	0	1	3	0	1	42	
co-0729-r-006	5	3	3	1	5	5	3	5	1	5	1	0	1	0	1	0	1	0	2	3	2	3	42	
co-0729-r-007	5	1	3	3	3	5	1	5	5	5	1	0	1	0	1	1	1	1	3	3	3	3	42	
co-0731-r-005	5	1	3	3	5	5	1	5	5	3	1	1	0	0	1	1	0	0	4	5	0	1	42	
co-0731-r-010	5	1	3	3	3	5	3	3	5	3	1	1	0	0	1	1	1	1	4	5	2	3	42	
co-0810-r-003	5	5	1	5	5	5	1	3	1	5	1	0	1	0	0	0	0	0	1	3	1	3	42	
co-0810-r-008	5	5	3	3	3	3	3	3	1	5	5	1	1	0	0	1	1	0	0	4	5	0	1	42
co-0810-r-012	5	5	3	3	3	3	3	3	3	5	1	1	0	0	1	1	0	0	4	5	0	1	42	
co-0811-r-005	5	5	3	5	5	1	1	3	5	5	1	1	0	0	1	0	0	0	3	3	0	1	42	
co-0812-r-005	5	1	3	5	5	5	1	3	3	5	1	1	0	0	1	1	0	0	4	5	0	1	42	
co-0812-r-012	5	1	3	3	5	3	5	3	5	5	1	1	0	0	1	0	0	0	3	3	0	1	42	
co-0820-r-001	5	1	3	5	3	3	5	5	5	0	0	0	0	0	1	0	0	0	1	1	1	3	42	
co-0831-r-007	5	5	3	5	1	5	1	1	5	5	1	1	0	0	1	1	0	0	4	5	0	1	42	

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
co-0831-r-011	5	3	3	1	5	5	3	5	5	3	1	0	0	1	0	0	0	2	3	0	1	42	
co-0831-r-015	5	5	3	3	3	5	3	5	3	1	1	1	0	0	1	1	0	0	4	5	0	1	42
CO-0901-R-001	5	1	1	5	5	5	3	3	5	5	1	1	0	0	0	0	0	2	3	0	1	42	
co-0901-r-002	5	5	3	5	5	5	1	3	5	3	0	0	0	0	0	0	0	0	0	1	0	42	
co-0901-r-004	5	5	5	3	5	5	1	3	1	3	0	1	0	1	1	1	1	3	3	3	3	42	
co-0901-r-010	5	5	5	1	5	3	3	3	3	3	1	1	0	0	1	1	0	0	4	5	0	1	42
co-0904-r-007	5	5	3	3	3	5	3	3	5	3	0	0	0	0	1	1	0	0	2	3	0	1	42
co-0904-r-008	5	5	3	3	1	5	5	1	5	5	0	0	0	0	1	1	0	0	2	3	0	1	42
co-0904-r-018	5	5	3	1	5	5	3	3	5	5	0	0	0	0	0	0	0	0	0	0	1	0	42
co-0907-r-003	5	5	3	3	5	5	3	5	1	3	0	0	0	0	1	1	0	0	2	3	0	1	42
co-1027-r-001	5	5	5	1	3	1	3	5	5	5	0	0	0	0	1	1	0	0	2	3	0	1	42
co-1027-r-002	5	1	3	1	5	5	3	5	5	5	0	1	0	0	0	1	0	0	2	3	0	1	42
co-1029-r-003	5	5	5	3	1	1	3	5	5	3	1	1	0	0	1	1	0	0	4	5	0	1	42
co-1029-r-009	5	5	3	3	5	5	3	5	1	3	0	0	0	0	0	0	0	1	0	1	1	3	42

Crossing ID	SRI Total																							
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor		
co-1102-r-006	5	1	3	3	5	5	3	5	1	5	0	1	0	0	1	2	3	1	3	42				
cr-1102-r-012	5	3	3	1	3	5	3	5	3	5	0	1	1	1	0	1	3	3	3	42				
ok-0318-r-002	5	1	3	5	1	5	3	3	5	5	1	1	0	0	1	1	0	0	4	5	0	1	42	
ok-0318-r-003	5	1	3	3	5	5	3	3	3	5	1	1	0	0	0	0	1	1	2	3	2	3	42	
ok-0409-r-001	5	3	5	1	5	5	5	5	1	5	0	0	0	0	0	0	0	0	0	0	1	0	42	
ok-0429-r-006	5	5	3	5	1	5	1	3	5	3	1	1	0	0	0	1	1	0	0	4	5	0	1	42
ok-0526-r-008	5	5	1	5	1	5	3	3	5	3	1	1	0	0	0	0	1	0	2	3	1	3	42	
ok-0617-r-002	5	1	3	3	3	5	3	3	3	5	1	1	1	0	1	1	0	0	4	5	1	3	42	
ok-0617-r-006	5	1	3	5	3	3	3	1	5	5	1	1	0	0	1	1	0	1	4	5	1	3	42	
wa-0626-r-001	5	5	3	5	1	3	1	5	3	5	1	1	0	0	1	1	0	0	4	5	0	1	42	
wa-0626-r-003	3	3	3	3	5	5	1	5	5	3	1	1	0	0	1	1	0	0	4	5	0	1	42	
wa-0706-r-004	5	5	3	3	1	3	1	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	42	
wa-0707-r-001	5	5	1	1	3	3	5	3	5	3	1	1	1	0	1	1	1	1	4	5	3	3	42	
wa-0710-r-005	5	5	5	1	3	3	3	5	1	5	0	0	1	0	0	1	0	0	1	3	1	3	42	

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
wa-0714-r-001	3	5	3	3	5	5	3	5	1	5	1	1	0	0	1	0	0	3	3	0	1	42	
wa-0722-r-004	5	5	1	5	3	5	3	5	1	5	0	0	0	0	1	1	0	0	2	3	0	1	42
wa-0722-r-006	5	5	3	5	5	5	3	5	1	3	0	0	0	0	0	0	0	0	0	0	1	0	42
co-0729-r-003	5	5	3	5	3	5	3	3	5	3	1	1	0	0	0	0	0	0	2	3	0	1	44
co-0731-r-002	5	1	5	1	5	5	3	5	5	5	0	1	0	0	1	1	0	0	3	3	0	1	44
co-0731-r-003	5	1	5	1	5	5	3	5	5	5	0	0	0	0	0	1	0	0	1	3	0	1	44
co-0731-r-007	5	1	3	3	5	5	1	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	44
co-0810-r-013	5	3	3	3	5	5	3	5	5	3	0	1	0	0	1	1	0	0	3	3	0	1	44
co-0810-r-020	5	5	3	5	3	5	5	3	1	5	0	1	0	0	1	0	0	0	2	3	0	1	44
co-0811-r-003	5	1	3	1	5	5	3	5	5	5	0	0	1	1	1	0	0	1	1	3	3	3	44
co-0831-r-002	5	5	3	5	5	5	3	3	1	3	1	1	0	0	1	1	0	0	4	5	0	1	44
co-0901-r-008	5	5	1	3	1	5	3	5	3	5	1	1	1	0	1	1	0	0	4	5	1	3	44
co-0901-r-009	3	5	5	5	1	5	3	5	3	3	1	1	0	0	1	1	0	0	4	5	0	1	44
co-0901-r-011	5	5	5	1	5	5	3	5	3	3	0	0	1	0	0	0	1	1	0	1	3	3	44

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
co-0901-r-015	5	1	3	3	5	5	3	5	3	1	1	0	0	1	1	0	0	4	5	0	1	44	
co-0904-r-001	5	5	3	1	3	3	5	3	5	0	0	0	1	1	1	1	2	3	3	3	3	44	
co-0904-r-002	5	5	3	5	5	5	1	1	3	3	1	1	0	1	1	0	0	4	5	1	3	44	
co-0904-r-016	5	5	3	1	5	5	3	5	3	1	1	1	1	0	0	0	0	2	3	2	3	44	
co-0904-r-017	5	5	3	1	5	5	1	1	5	5	1	0	1	1	1	1	1	3	3	4	5	44	
co-1027-r-009	5	3	5	3	5	5	3	5	1	3	0	1	0	0	0	1	1	1	3	2	3	44	
co-1027-r-010	5	1	3	1	5	5	3	5	5	1	1	0	0	1	1	0	0	4	5	0	1	44	
co-1029-r-002	5	5	5	1	5	5	1	3	5	5	0	1	0	0	1	1	0	0	3	3	0	1	44
co-1029-r-007	5	5	3	3	5	5	3	5	1	5	0	1	0	0	0	0	0	0	1	3	0	1	44
co-1102-r-005	3	1	3	3	5	5	3	5	5	1	1	0	0	1	1	0	0	4	5	0	1	44	
co-1102-r-009	5	1	3	3	5	5	3	5	5	1	1	0	0	0	0	0	0	2	3	0	1	44	
co-1103-r-017	5	1	3	1	3	5	5	5	5	1	1	1	1	0	0	0	0	2	3	2	3	44	
co-1103-r-018	3	1	5	1	5	5	5	5	5	1	1	0	0	1	0	0	0	3	3	0	1	44	
cr-1103-r-006	3	3	3	3	3	5	3	5	5	1	1	0	0	1	1	0	0	4	5	0	1	44	

Crossing ID	SRI Total																							
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor		
ok-0407-r-002	5	5	5	1	5	5	5	5	1	5	0	0	0	0	0	0	0	0	1	0	1	44		
ok-0407-r-003	5	1	3	5	5	5	5	5	1	5	0	1	0	0	0	1	0	0	2	3	0	1	44	
ok-0407-r-004	5	3	3	5	5	5	5	5	3	3	1	1	1	0	0	1	1	0	0	4	5	0	1	44
ok-0512-r-007	3	5	5	1	5	3	3	1	3	5	1	1	1	1	1	1	1	1	4	5	4	5	44	
ok-0526-r-003	3	3	3	1	5	5	5	5	3	5	1	1	1	0	1	0	0	0	3	3	2	3	44	
ok-0526-r-009	5	5	1	3	1	5	1	5	5	5	1	1	1	0	1	1	0	0	4	5	1	3	44	
ok-0528-r-001	5	1	3	1	5	3	3	5	5	5	1	1	1	0	1	1	1	1	3	3	4	5	44	
ok-0528-r-004	5	1	3	5	5	5	3	5	3	5	0	1	0	0	1	0	0	0	2	3	0	1	44	
ok-0528-r-005	5	3	3	5	3	5	1	1	5	5	1	1	1	1	1	0	0	0	4	5	2	3	44	
ok-0528-r-007	5	1	3	3	3	3	3	5	5	5	1	1	0	1	1	1	0	1	4	5	2	3	44	
ok-0710-r-003	5	1	3	5	5	5	5	5	1	0	0	0	0	1	0	0	0	0	1	3	0	1	44	
ok-0710-r-004	5	3	3	3	5	5	3	5	3	5	0	1	0	0	0	0	0	0	1	3	0	1	44	
ok-1005-r-003	5	1	3	1	5	5	5	5	3	1	1	0	0	1	1	0	0	0	4	5	0	1	44	
sr-0407-r-009	5	3	3	3	5	5	5	5	1	5	0	0	0	1	1	0	0	0	2	3	0	1	44	

Crossing ID	SRI Total																							
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor		
sr-0414-r-004	5	1	3	5	5	5	5	5	1	5	0	0	0	0	1	0	0	1	3	0	1	44		
wa-0625-r-005a	5	5	5	1	3	3	5	5	1	5	1	1	0	0	1	1	1	3	3	3	3	44		
wa-0626-r-002	3	3	3	5	5	5	3	5	1	5	1	1	0	0	1	1	0	0	4	5	0	1	44	
wa-0626-r-007	3	5	5	3	1	5	1	3	5	5	1	1	1	1	1	0	0	4	5	2	3	44		
wa-0714-r-005	5	5	5	3	3	3	3	5	5	3	1	1	0	0	0	1	0	0	3	3	0	1	44	
wa-0722-r-009	5	5	5	5	1	3	1	3	5	5	1	1	0	0	1	1	0	0	4	5	0	1	44	
wa-0723-r-003	3	5	5	5	3	3	3	5	5	1	1	1	0	0	1	1	0	0	4	5	0	1	44	
co-0731-r-009	5	5	1	3	5	5	3	5	1	5	1	1	1	1	1	0	0	4	5	2	3	46		
co-0731-r-012	5	5	3	1	3	5	3	5	3	5	1	1	1	0	1	1	0	0	4	5	1	3	46	
co-0810-r-004	5	5	3	5	5	5	3	5	5	5	1	1	0	0	0	1	1	0	0	3	3	0	1	46
co-0812-r-004	5	3	3	5	5	5	5	5	1	5	1	0	0	0	0	0	0	0	1	3	0	1	46	
co-0812-r-010	5	5	5	3	5	5	3	3	5	1	1	0	0	0	1	0	0	0	3	3	0	1	46	
co-0820-r-009	5	5	3	5	5	5	1	5	1	3	1	1	1	0	0	1	1	2	3	4	5	0	1	46
co-0831-r-006	5	1	3	3	5	5	3	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	46	

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
co-0831-r-009	5	3	5	5	5	5	3	5	1	3	1	1	0	0	1	1	0	0	4	5	0	1	46
co-0901-r-003	3	5	5	3	5	5	5	3	1	3	1	1	0	1	1	1	0	0	4	5	1	3	46
co-0901-r-006	5	5	3	5	5	5	3	5	3	3	0	0	0	0	1	1	0	0	2	3	0	1	46
co-0901-r-016	5	1	3	5	5	5	3	1	5	5	1	1	0	0	1	1	1	1	4	5	2	3	46
co-0904-r-006	5	5	3	3	5	5	3	5	3	5	0	0	0	0	1	0	0	0	1	3	0	1	46
co-0904-r-011	5	5	3	3	5	5	5	3	1	5	1	1	0	1	0	0	0	0	2	3	1	3	46
co-1102-r-003	5	5	3	3	3	5	3	5	5	5	0	0	0	0	1	1	0	0	2	3	0	1	46
co-1102-r-004	3	5	3	3	5	5	3	5	3	5	0	1	1	1	1	1	0	0	3	3	2	3	46
co-1102-r-015	5	5	3	3	5	5	3	5	5	3	0	0	0	0	0	1	0	0	1	3	0	1	46
co-1103-r-013	3	3	3	1	5	5	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	46	
co-1103-r-014	5	3	3	3	3	3	5	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	46
co-1104-r-002	5	5	3	3	5	5	3	5	3	5	1	1	0	0	0	0	0	0	2	3	0	1	46
ok-0223-r-005	5	5	1	5	5	5	3	5	1	1	1	1	1	1	1	1	1	1	4	5	4	5	46
ok-0318-r-004	5	1	3	5	5	5	5	5	5	5	0	0	0	0	0	0	0	0	0	0	1	0	46

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
ok-0409-r-002	5	1	3	5	5	5	5	3	5	1	1	0	0	1	0	0	3	3	0	1	46		
ok-0617-r-001	5	3	5	1	5	5	3	5	0	1	0	0	1	1	0	1	3	3	1	3	46		
sr-0407-r-010	5	3	3	5	5	5	3	3	5	1	1	0	0	1	1	0	0	4	5	0	1	46	
sr-0414-r-002	5	1	3	3	5	5	5	3	5	5	1	1	0	0	1	1	0	0	4	5	0	1	46
wa-0625-r-004	5	3	3	5	5	5	3	5	3	3	1	1	0	0	1	1	0	0	4	5	0	1	46
wa-0626-r-006	5	5	3	5	5	1	3	5	1	5	1	1	0	1	1	1	0	4	5	2	3	46	
wa-0714-r-011	3	3	3	3	5	3	3	5	5	5	1	1	1	0	1	1	0	0	4	5	1	3	46
wa-0722-r-001	5	5	3	1	3	5	5	3	5	1	1	0	0	1	1	0	0	4	5	0	1	46	
wa-1005-r-006	5	5	3	1	5	5	3	5	5	3	1	1	0	0	1	1	0	0	4	5	0	1	46
co-0810-r-007	5	3	3	5	5	5	3	5	5	5	0	1	0	0	0	0	0	0	1	3	0	1	48
co-0810-r-010	5	3	3	5	5	5	3	3	5	5	1	1	0	0	1	1	0	0	4	5	0	1	48
co-0811-r-002	5	5	3	5	5	5	3	5	1	5	1	1	0	0	1	1	0	0	4	5	0	1	48
co-0812-r-007	5	5	3	5	3	1	3	5	5	5	1	1	1	1	1	1	0	0	4	5	3	3	48
co-0812-r-008	5	5	3	5	3	3	1	5	5	5	1	1	1	0	1	1	0	1	4	5	2	3	48

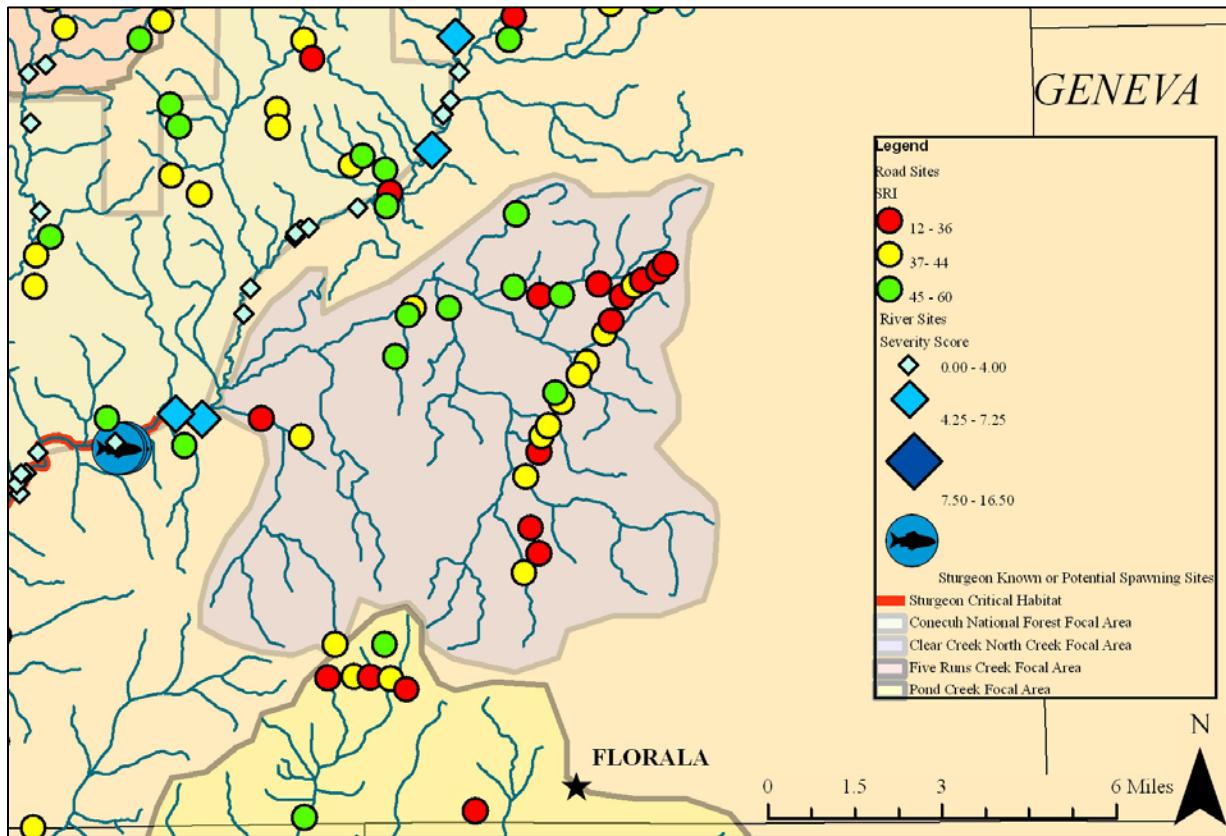
Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
co-0901-r-005	5	5	3	3	5	3	3	5	3	5	1	1	0	1	1	1	1	0	4	5	2	3	48
co-0904-r-009	5	5	3	3	5	5	1	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	48
co-1102-r-001	5	3	3	5	3	5	3	5	3	5	1	1	0	1	1	1	0	0	4	5	1	3	48
co-1102-r-008	5	3	3	3	5	5	3	5	3	5	1	1	0	1	1	1	0	1	4	5	2	3	48
co-1102-r-010	5	3	3	5	5	5	3	5	5	5	1	1	0	0	0	0	0	0	2	3	0	1	48
co-1103-r-015	5	5	3	3	5	5	3	5	5	3	1	1	0	0	0	1	0	1	3	3	1	3	48
co-1104-r-001	5	3	3	3	3	5	3	5	5	5	1	1	0	1	1	1	1	0	4	5	2	3	48
ok-0223-r-003	5	5	3	5	5	5	3	5	1	5	0	0	1	1	0	0	1	1	0	1	4	5	48
ok-0318-r-005	5	3	3	3	5	5	5	5	3	5	1	1	0	0	1	1	0	0	4	5	0	1	48
ok-0407-r-001	5	5	5	1	5	5	3	5	5	5	0	0	0	0	1	0	0	0	1	3	0	1	48
ok-0526-r-001	5	1	3	1	5	5	3	5	5	5	1	1	1	1	1	1	1	1	4	5	4	5	48
ok-0526-r-010	3	5	1	5	3	5	5	5	5	5	1	0	1	0	0	1	1	0	2	3	2	3	48
ok-0528-r-003	5	3	3	3	3	3	3	5	5	5	1	1	1	1	1	1	1	1	4	5	4	5	48
sr-0223-r-001	5	1	3	3	5	5	5	5	5	5	0	1	0	1	0	0	0	0	1	3	1	3	48

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
wa-0625-r-001	3	5	3	3	5	5	3	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	48
wa-0625-r-005b	5	5	5	1	3	3	5	5	5	5	1	1	1	0	0	1	1	1	3	3	3	3	48
wa-0626-r-008	3	5	5	3	5	5	3	3	3	3	1	1	1	1	1	1	1	1	4	5	4	5	48
wa-0714-r-003	5	5	5	3	5	5	3	5	1	5	0	1	0	1	0	1	1	1	3	3	3	3	48
wa-0722-r-005	5	5	1	5	3	3	5	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	48
co-0812-r-006	5	5	3	5	5	5	3	3	5	3	1	1	0	1	1	0	1	4	5	2	3	3	50
co-0831-r-014	5	5	5	5	5	5	3	5	3	3	1	0	0	1	1	1	1	0	3	3	2	3	50
co-0901-r-007	5	5	3	5	5	5	3	3	3	5	1	1	1	0	1	1	0	0	4	5	1	3	50
co-0901-r-017	5	5	3	5	3	5	3	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	50
co-1029-r-001	5	3	5	3	5	5	3	5	3	5	1	1	1	1	1	0	1	1	3	3	4	5	50
co-1029-r-005	5	5	5	1	5	5	3	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	50
co-1102-r-007	5	1	3	5	5	5	3	5	3	5	1	1	1	1	1	1	1	1	4	5	4	5	50
co-1102-r-013	5	1	5	3	5	5	3	5	3	5	1	1	1	1	1	1	1	1	4	5	4	5	50
co-1103-r-001	5	5	3	5	5	5	3	5	3	5	1	1	1	0	0	0	0	0	2	3	1	3	50

Crossing ID	SRI Total																						
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	
ok-0407-r-005	5	1	3	5	5	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	50		
ok-0710-r-002	5	5	3	3	5	5	5	5	0	1	0	0	1	1	0	0	3	3	0	1	50		
sr-0223-r-002	5	5	3	3	3	5	3	5	5	1	1	0	1	1	1	0	4	5	2	3	50		
wa-0722-r-002	5	5	3	5	3	3	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	50	
wa-0722-r-007	5	5	3	5	5	5	1	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	50
co-0729-r-002	5	1	3	5	3	5	5	5	5	1	1	1	1	1	1	1	4	5	4	5	5	52	
co-0831-r-012	5	5	3	3	5	5	3	5	5	5	1	1	0	0	1	1	0	1	4	5	1	3	52
co-1029-r-004	5	5	3	5	5	5	3	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	52
co-1103-r-016	5	5	5	3	5	5	5	5	5	1	0	0	0	1	1	0	0	3	3	0	1	52	
ok-0223-r-004	5	5	3	5	5	5	3	5	1	5	1	1	1	1	1	1	4	5	4	5	5	52	
ok-0223-r-006	5	5	3	5	5	5	5	5	5	1	1	0	0	0	0	0	2	3	0	1	52		
sr-0414-r-006	5	5	3	5	5	5	3	5	5	5	1	1	0	0	1	1	0	0	4	5	0	1	52
co-0811-r-001	5	5	3	5	5	5	3	5	5	5	1	1	1	1	1	0	1	4	5	3	3	54	
co-0812-r-003	5	5	3	5	5	5	3	5	5	5	1	1	1	1	0	1	0	0	4	5	1	3	54

	SRI Total																							
	Ditches If Total	Ditches Total	Outlet If Total	Outlet Total	Downstream Lt Ditch	Downstream Rt Ditch	Downstream Lt Outlet	Downstream Rt Outlet	Upstream Lt Ditch	Upstream Rt Ditch	Upstream Lt Outlet	Upstream Rt Outlet	InletOutlet Condition	Crossing fill condition	Upstream Skew Angle	DS Bank Alteration	DS Channel Morph	US Channel Morph	Avg Approach Slope	Road Approach Material	Potential Erod Mean	Soil K Factor	Crossing ID	
co-1103-r-012	3	5	5	5	5	5	5	5	0	1	0	0	1	1	0	1	1	1	1	1	3	1	3	54
ok-0526-r-004	3	5	3	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	4	5	4	54
co-0901-r-019	5	5	3	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	4	5	4	56
wa-0710-r-001	5	5	5	5	5	5	3	3	5	5	1	1	1	1	1	1	1	1	1	1	4	5	4	56

Appendix C. Clear Creek Watershed Focal Area. Sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the Sediment Risk Index (SRI) are detailed in Witmer (2009).



Unnamed tributary

co-0812-r-002

Sedimentation Risk Index

28

Common: 8.3mi NW of Florala
Drainage: North Creek
Land owner: Walter & Martha Spears

GPS: 31.095561, -86.418078

County: Covington
PLSS (T-R-S): 2N-16E-35
Parcel No.: 6
Road Name: Laird Rd



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	28

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: PVC
Soil Types: BoB,BoC,CdC,DmB,FoA,FuB,GrA,IbA,MBA
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 3.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rock DS holding back the water flow.

Unnamed tributary

co-0820-r-003

Sedimentation Risk Index
28

Common: 4.4mi N of Flora
Drainage: Dry Creek GPS: 31.067773851, -86.339962557
Land owner: Rayonier Forest Resources LP

County: Covington State: Alabama
PLSS (T-R-S): 1N-17E-10
Parcel No.: 1
Road Name: Tram Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	28

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: BoB,BoC,CdC,DmB,EsC,FoA
Rt Approach Prism Fill: 1.5in
Lt Approach Prism Fill: 2.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: US channelized

Unnamed tributary	co-0812-r-009	<i>Sedimentation Risk Index</i> 30																																																																	
<u>Common:</u> 8.3mi N of Flora <u>Drainage:</u> Clear Creek <u>GPS:</u> 31.125967, -86.336861 <u>Land owner:</u> Rodney Helms US, Donald & Elizabeth Stullken -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-22 <u>Parcel No.:</u> 3; 3.03 <u>Road Name:</u> Booker Rd	<u>State:</u> Alabama																																																																	
																																																																			
Crossing Structure: DS		DS																																																																	
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> BoB,BoC,DmB,EsC,GrA,MBA,OrA,OrB <u>Rt Approach Prism Fill:</u> 0.15in <u>Lt Approach Prism Fill:</u> 0.1in		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Feature</th> <th style="text-align: left;">Within Range</th> <th style="text-align: left;">Descriptive Field</th> </tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>No</td><td>N/A</td></tr> <tr><td>Land Use/ Cover</td><td>Yes</td><td>N/A/ DEVELOPED OPEN SPACE</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																												
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Notes: Man-made pond US- awkward drainage at a high angle

Unnamed tributary	co-0831-r-005	Sedimentation Risk Index 30																																																																		
<u>Common:</u> 9.0mi N of Florala <u>Drainage:</u> Beaver Creek <u>Land owner:</u> Rayonier Forest Resources	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-13 <u>Parcel No.:</u> 1 <u>Road Name:</u> Johnson's Quarters	<u>State:</u> Alabama																																																																		
																																																																				
Crossing Structure: US		US																																																																		
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> PVC <u>Soil Types:</u> BoB,FoA,FuB,MBA <u>Rt Approach Prism Fill:</u> 0.5in <u>Lt Approach Prism Fill:</u> 1.0in		<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>No</td><td>N/A</td></tr> <tr><td>Land Use/ Cover</td><td>Yes</td><td>N/A/ DEVELOPED OPEN SPACE</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																													
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Candidate Mussels	No	N/A																																																																		
Sturgeon C.H.	No	N/A																																																																		

Notes: None

Clear Creek

co-0812-r-011

Sedimentation Risk Index
32

<u>Common:</u> 8.6mi N of Florala	<u>County:</u> Covington	<u>State:</u> Alabama
<u>Drainage:</u> Yellow River	<u>PLSS (T-R-S):</u> 2N-17E-23	
<u>Land owner:</u> Avis McGourk	<u>Parcel No.:</u> 4	

GPS: 31.128814, -86.319747 Road Name: Buster Aplin Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	32

Additional Site Features

<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Reinforced Concrete
<u>Soil Types:</u>	BoB, BoC, FoA, FuB, MBA
<u>Rt Approach Prism Fill:</u>	0.75in
<u>Lt Approach Prism Fill:</u>	0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None.

Unnamed tributary

co-0820-r-002

Sedimentation Risk Index

32

Common: 4.0mi N of Flora
Drainage: Clear Creek GPS: 31.061369177, -86.337699081
Land owner: Rayonier Forest Resources LP

County: Covington State: Alabama
PLSS (T-R-S): 1N-17E-10
Parcel No.: 1
Road Name: Tram Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	32

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: Bob,BoC,DmB,FoA,LyA,MBA
Rt Approach Prism Fill: 2.0in
Lt Approach Prism Fill: 1.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS sediment loaded.

Unnamed tributary

co-0820-r-010

Sedimentation Risk Index
32

Common: 7.9mi N of Florala
Drainage: Beaver Creek GPS: 31.119467511, -86.316219563
Land owner: JoAnn Greene

County: Covington
PLSS (T-R-S): 2N-17E-23
Parcel No.: 7.01
Road Name: Tram Rd

State: Alabama



Crossing Structure: US

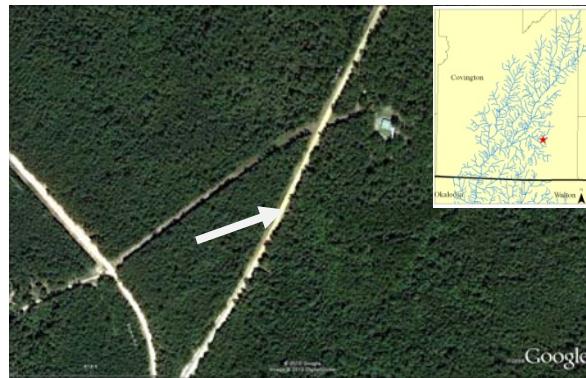


US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	32

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: BoB,DMB,FoA,MBA
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 0.75in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None.

Unnamed tributary

co-0830-r-001

Sedimentation Risk Index
32

Common: 8.35mi N of Florala
Drainage: Beaver Creek GPS: 31.125586, -86.312967
Land owner: Rayonier Forest Resources LP

County: Covington
PLSS (T-R-S): 2N-17E-23
Parcel No.: 1
Road Name: Johnson's Quarters



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	32

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: BoB,FoA,FuB,MBA,RaA
Rt Approach Prism Fill: 1.5in
Lt Approach Prism Fill: 1.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ EVERGREEN PLANTATIONS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Culvert almost buried.

Unnamed tributary

co-0831-r-004

Sedimentation Risk Index
32

Common: 9.0mi N of Florala
Drainage: Beaver Creek GPS: 31.131894, -86.302256
Land owner: Rayonier Forest Resources LP

County: Covington
PLSS (T-R-S): 2N-17E-24
Parcel No.: 1
Road Name: Johnsons Quarters

State: Alabama



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y ³	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	32

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: BoB,BoC,FoA,FuB,MBA
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rip rap blocking stream bed.

Unnamed tributary	co-0820-r-005	Sedimentation Risk Index 34																																																																		
<u>Common:</u> 5.7mi N of Flora <u>Drainage:</u> Clear Creek <u>GPS:</u> 31.086853712, -86.337426676 <u>Land owner:</u> Rayonier Forest Resources LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-17E-3 <u>Parcel No.:</u> 1 <u>Road Name:</u> Tram Rd	<u>State:</u> Alabama																																																																		
																																																																				
Crossing Structure: DS	DS																																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Risk Factor</th> <th style="text-align: left;">Ranking</th> <th style="text-align: right;">Score</th> </tr> </thead> <tbody> <tr><td><i>US Channel Morph</i></td><td>DA</td><td style="text-align: right;">3</td></tr> <tr><td><i>DS Channel Morph</i></td><td>DA</td><td style="text-align: right;">3</td></tr> <tr><td><i>DS Bank Alteration</i></td><td>HIGH</td><td style="text-align: right;">1</td></tr> <tr><td><i>Upstream Skew Angle</i></td><td>5-30°</td><td style="text-align: right;">3</td></tr> <tr><td><i>Crossing fill condition</i></td><td>Poor/Bare soil</td><td style="text-align: right;">1</td></tr> <tr><td><i>Inlet/Outlet Condition</i></td><td>Sed Islands/Scouring</td><td style="text-align: right;">3</td></tr> <tr><td><i>Road Approach Material</i></td><td>All Sand/Clay</td><td style="text-align: right;">3</td></tr> <tr><td><i>Potential Eroded Volume Mean</i></td><td><21 y³</td><td style="text-align: right;">5</td></tr> <tr><td><i>Approach Slope Mean</i></td><td><2%</td><td style="text-align: right;">5</td></tr> <tr><td><i>Soil K Factor</i></td><td>0.21-0.40</td><td style="text-align: right;">3</td></tr> <tr><td><i>Upstream Rt Outlet</i></td><td>Vegetated</td><td style="text-align: right;">1</td></tr> <tr><td><i>Upstream Lt Outlet</i></td><td>Vegetated</td><td style="text-align: right;">1</td></tr> <tr><td><i>Upstream Rt Ditch</i></td><td>Bare soil</td><td style="text-align: right;">0</td></tr> <tr><td><i>Upstream Lt Ditch</i></td><td>Bare soil</td><td style="text-align: right;">0</td></tr> <tr><td><i>Downstream Rt Outlet</i></td><td>Bare soil</td><td style="text-align: right;">0</td></tr> <tr><td><i>Downstream Lt Outlet</i></td><td>Bare soil</td><td style="text-align: right;">0</td></tr> <tr><td><i>Downstream Rt Ditch</i></td><td>Bare soil</td><td style="text-align: right;">0</td></tr> <tr><td><i>Downstream Lt Ditch</i></td><td>Bare soil</td><td style="text-align: right;">0</td></tr> <tr><td>Outlet Total</td><td>Partially Improved Outlet System</td><td style="text-align: right;">3</td></tr> <tr><td>Ditches Total</td><td>Unimproved Drainage System</td><td style="text-align: right;">1</td></tr> <tr> <td style="text-align: right;">SRI Total</td><td style="text-align: right;">High Risk</td><td style="text-align: right;">34</td></tr> </tbody> </table>	Risk Factor	Ranking	Score	<i>US Channel Morph</i>	DA	3	<i>DS Channel Morph</i>	DA	3	<i>DS Bank Alteration</i>	HIGH	1	<i>Upstream Skew Angle</i>	5-30°	3	<i>Crossing fill condition</i>	Poor/Bare soil	1	<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3	<i>Road Approach Material</i>	All Sand/Clay	3	<i>Potential Eroded Volume Mean</i>	<21 y³	5	<i>Approach Slope Mean</i>	<2%	5	<i>Soil K Factor</i>	0.21-0.40	3	<i>Upstream Rt Outlet</i>	Vegetated	1	<i>Upstream Lt Outlet</i>	Vegetated	1	<i>Upstream Rt Ditch</i>	Bare soil	0	<i>Upstream Lt Ditch</i>	Bare soil	0	<i>Downstream Rt Outlet</i>	Bare soil	0	<i>Downstream Lt Outlet</i>	Bare soil	0	<i>Downstream Rt Ditch</i>	Bare soil	0	<i>Downstream Lt Ditch</i>	Bare soil	0	Outlet Total	Partially Improved Outlet System	3	Ditches Total	Unimproved Drainage System	1	SRI Total	High Risk	34		
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> DmB,FoA,FuB,GrA,LuB,MBA,RaA <u>Rt Approach Prism Fill:</u> 1.5in <u>Lt Approach Prism Fill:</u> 0.25in	Feature	Within Range																																																																		
	303(d)	No																																																																		
	Wetland Species	No																																																																		
	Rare and Imperiled	No																																																																		
	Sturgeon Spawning	No																																																																		
	Candidate Mussels	No																																																																		
	Sturgeon C.H.	No																																																																		

Notes: None.

Unnamed tributary

co-0831-r-003

Sedimentation Risk Index
36

Common: 8.7mi N of Florala
Drainage: Beaver Creek GPS: 31.129497, -86.307092
Land owner: Rayonier Forest Resources LP

County: Covington State: Alabama
PLSS (T-R-S): 2N-17E-24
Parcel No.: 1
Road Name: Johnson's Quarters



Crossing Structure: US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: BoB,BoC,FoA,FuB,MBA
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: High sediment loads from outlets

Unnamed tributary	co-0812-r-013b	Sedimentation Risk Index 38																																																																		
<u>Common:</u> 7.0mi N of Florala <u>Drainage:</u> Beaver Creek <u>GPS:</u> 31.106053, -86.325597 <u>Land owner:</u> Rayonier Forest Resources LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-26 <u>Parcel No.:</u> 5 <u>Road Name:</u> Tram Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> PVC <u>Soil Types:</u> BoB,DmB,FoA,FuB,MBA,OrB,RaA <u>Rt Approach Prism Fill:</u> 0.25in <u>Lt Approach Prism Fill:</u> 0.5in	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H.	Within Range No No No Yes No No	Descriptive Field N/A N/A N/A N/A/ EVERGREEN PLANTATIONS N/A N/A																																																																	

Notes: Culvert undersized for wetland drainage

Unnamed tributary	co-0820-r-006	<i>Sedimentation Risk Index</i> 38																																																																																							
<u>Common:</u> 5.9mi N of Florala <u>Drainage:</u> Clear Creek <u>GPS:</u> 31.090768061, -86.336509468 <u>Land owner:</u> Rayonier Forest Resources LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-34 <u>Parcel No.:</u> 3 <u>Road Name:</u> Tram Rd	<u>State:</u> Alabama																																																																																							
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Notes: None.

Unnamed tributary	co-0820-r-007	Sedimentation Risk Index 38																																																																	
<u>Common:</u> 6.1mi N of Flora <u>Drainage:</u> Clear Creek <u>GPS:</u> 31.093397595, -86.334589086 <u>Land owner:</u> Rayonier Forest Resources LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-34 <u>Parcel No.:</u> 3 <u>Road Name:</u> Tram Rd	<u>State:</u> Alabama																																																																	
																																																																			
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Notes: None.

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Notes: DS road erosion leading into wetland. Rock placed in US channel. Looks like there should be a culvert

Beaver Creek

co-0812-r-013a

Sedimentation Risk Index
40

Common: 7.3mi N of Flora
Drainage: Clear Creek GPS: 31.109228, -86.323289
Land owner: Rayonier Forest Resources LP

County: Covington
PLSS (T-R-S): 2N-17E-26
Parcel No.: 5
Road Name: Tram Rd

State: Alabama



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	40
Additional Site Features		
<i>Crossing Type and Quantity:</i>	Bridge, 1	
<i>Crossing Materials:</i>	Wood	
<i>Soil Types:</i>	BoB,DmB,FoA,FuB,MBA,OrB,RaA	
<i>Rt Approach Prism Fill:</i>	0.25in	
<i>Lt Approach Prism Fill:</i>	0.5in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ EVERGREEN PLANTATIONS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Poor outlets

Dry Creek

co-0820-r-004

Sedimentation Risk Index
40

Common: 5.3mi N of Flora
Drainage: Clear Creek GPS: 31.080673255, -86.341286533
Land owner: Rayonier Forest Resources LP

County: Covington State: Alabama
PLSS (T-R-S): 1N-17E-3
Parcel No.: 1
Road Name: Tram Rd



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
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<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	40

Additional Site Features

Crossing Type and Quantity: Culvert, 3
Crossing Materials: Metal
Soil Types: MbA, FoA
Rt Approach Prism Fill: 2.0in
Lt Approach Prism Fill: 0.75in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None.

Unnamed tributary	co-0820-r-008	<i>Sedimentation Risk Index</i> 40																																																																		
<u>Common:</u> 6.5mi N of Flora <u>Drainage:</u> Clear Creek <u>GPS:</u> 31.099232101, -86.330790688 <u>Land owner:</u> Rayonier Forest Resources LP DS, W&G Martin Heirs-US	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-34 <u>Parcel No.:</u> 3;1 <u>Road Name:</u> Tram Rd	<u>State:</u> Alabama																																																																		
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Notes: Evidence of past aggregate on the road?

Unnamed tributary	co-0731-r-010	<i>Sedimentation Risk Index</i> 42																																																																		
<u>Common:</u> 4.8mi NW of Florala <u>Drainage:</u> Horsehead Creek <u>GPS:</u> 31.039100, -86.396897 <u>Land owner:</u> Rayonier Forest Resources LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-16E-24 <u>Parcel No.:</u> 1 <u>Road Name:</u> Big Farm Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Reinforced Concrete <u>Soil Types:</u> BoC,CdC,FuB,MBA,RaA <u>Rt Approach Prism Fill:</u> 1.0in <u>Lt Approach Prism Fill:</u> 4.0in	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H.	Within Range No No No Yes No No	Descriptive Field N/A N/A N/A N/A/ DEVELOPED OPEN SPACE N/A N/A																																																																	

Notes: Possibly historically channelized

Unnamed tributary	co-0812-r-005	Sedimentation Risk Index 42																																																																		
<u>Common:</u> 8.6mi N of Flora <u>Drainage:</u> Clear Creek <u>GPS:</u> 31.122894, -86.373628 <u>Land owner:</u> Rayonier Forest Resources LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-20 <u>Parcel No.:</u> 6 <u>Road Name:</u> Swimming Hole Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Notes: Rip rap filled culvert outlet.

Clear Creek

co-0812-r-012

Sedimentation Risk Index
42

Common: 7.6mi N of Flora
Drainage: Yellow River
Land owner: Ronnie & Cindy Moates

GPS: 31.116353, -86.318125

County: Covington
PLSS (T-R-S): 2N-17E-26
Parcel No.: 1
Road Name: Tram Rd

State: Alabama



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	42

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: BoB,FoA,FuB,LuB,MBA
Rt Approach Prism Fill: 0.2in
Lt Approach Prism Fill: 0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Low flow.

Clear Creek

co-0820-r-001

Sedimentation Risk Index
42

Common: 3.7mi N of Flora
Drainage: Yellow River GPS: 31.0566075, -86.341810698
Land owner: Rayonier Forest Resources LP

County: Covington
PLSS (T-R-S): 1N-17E-15
Parcel No.: 1
Road Name: Tram Rd

State: Alabama



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
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<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	42

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: BoB, BoC, FoA, FuB, MBA
Rt Approach Prism Fill: 2.0in
Lt Approach Prism Fill: 1.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Old bridge in channel

Unnamed tributary	co-0831-r-002	<i>Sedimentation Risk Index</i> 44																																																																		
<u>Common:</u> 8.5mi N of Florala <u>Drainage:</u> Beaver Creek <u>Land owner:</u> Rayonier Forest Resources LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-24 <u>Parcel No.:</u> 1 <u>Road Name:</u> Johnson's Quarters	<u>State:</u> Alabama																																																																		
																																																																				
Crossing Structure: US		US																																																																		
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> BoB,BoC,FoA,FuB,RaA <u>Rt Approach Prism Fill:</u> 0.5in <u>Lt Approach Prism Fill:</u> 0.25in		<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>No</td><td>N/A</td></tr> <tr><td>Land Use/ Cover</td><td>Yes</td><td>N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																													
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Candidate Mussels	No	N/A																																																																		
Sturgeon C.H.	No	N/A																																																																		

Notes: Culvert crushed

Dry Creek

co-0812-r-004

Sedimentation Risk Index
46

Common: 8.5mi N of Flora
Drainage: Clear Creek GPS: 31.122884, -86.363344
Land owner: Rayonier Forest Resources LP

County: Covington State: Alabama
PLSS (T-R-S): 2N-17E-20
Parcel No.: 6
Road Name: Swimming Hole Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	46

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: BoC,DmB,FuB,MBB,TrD
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Semi-private road. Dead end, does not appear to receive a lot of traffic.

Unnamed tributary	co-0812-r-010	Sedimentation Risk Index 46																																																																																							
<u>Common:</u> 8.3mi N of Flora <u>Drainage:</u> Clear Creek <u>GPS:</u> 31.126136, -86.330511 <u>Land owner:</u> Rayonier Forest Resources LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-22 <u>Parcel No.:</u> 1 <u>Road Name:</u> Booker Rd	<u>State:</u> Alabama																																																																																							
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Notes: None.

Unnamed tributary	co-0820-r-009	Sedimentation Risk Index 46																																																																																							
<u>Common:</u> 6.6mi N of Flora <u>Drainage:</u> Clear Creek <u>GPS:</u> 31.101564654, -86.332444522 <u>Land owner:</u> Rayonier Forest Resources LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-34 <u>Parcel No.:</u> 3 <u>Road Name:</u> Betty's Rd	<u>State:</u> Alabama																																																																																							
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Sturgeon C.H.	No	N/A																																																																																							

Notes: Submerged culvert.

Craw Pond

co-0812-r-007

Sedimentation Risk Index
48

Common: 9.8mi N of Flora
Drainage: Clear Creek
Land owner: Albert & James Cravey

GPS: 31.146472, -86.343528

County: Covington
PLSS (T-R-S): 2N-17E-15
Parcel No.: 2
Road Name: New Hope Rd

State: Alabama



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Low Risk	48

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: CdC,DmB,FoA,FuB,MBA
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary

co-0812-r-008

Sedimentation Risk Index
48

Common: 8.6mi N of Flora
Drainage: Clear Creek
Land owner: Rodney Helms

GPS: 31.128061, -86.344464

County: Covington
PLSS (T-R-S): 2N-17E-22
Parcel No.: 3
Road Name: Booker Rd

State: Alabama



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
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<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Low Risk	48

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: BoB,BoC,DmB,EsC,GrA,MBA,OrA,OrB
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Fencing across US

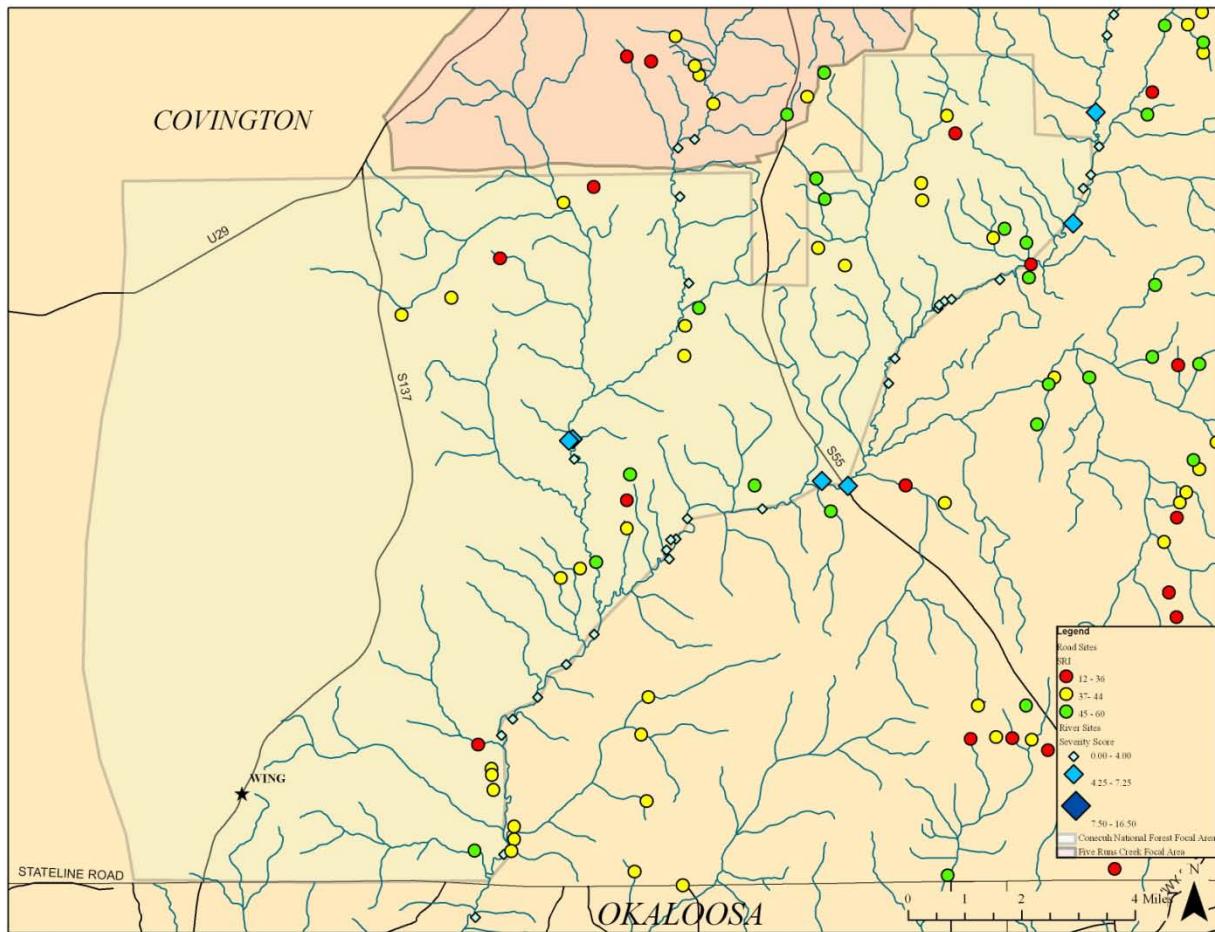
Unnamed tributary	co-0812-r-006	Sedimentation Risk Index 50																																																																		
<u>Common:</u> 8.6mi N of Flora <u>Drainage:</u> Clear Creek <u>GPS:</u> 31.121189, -86.375328 <u>Land owner:</u> Rayonier Forest Resources LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-20 <u>Parcel No.:</u> 6 <u>Road Name:</u> Swimming Hole Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Notes: None

Unnamed tributary	co-0812-r-003	Sedimentation Risk Index 54																																																																																							
<u>Common:</u> 8.0mi NW of Florala <u>Drainage:</u> Clear Creek <u>GPS:</u> 31.110944, -86.378897 <u>Land owner:</u> Rayonier Forest Resources LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-30 <u>Parcel No.:</u> 8 <u>Road Name:</u> Camp Eleven Rd	<u>State:</u> Alabama																																																																																							
																																																																																									
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> BoC,CdC,DmB,FoA,MBA,OrC,RaA <u>Rt Approach Prism Fill:</u> 0.75in <u>Lt Approach Prism Fill:</u> 0.25in																																																																																									

Notes: Highly vegetated.

Appendix D. Conecuh National Forest Focal Area. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



Yellow River		co-0807-008	Severity Score 5.25		
<u>Common:</u> 9mi NW of Florala	<u>County:</u> Covington	<u>State:</u> Alabama			
<u>Drainage:</u> Blackwater Bay	<u>GPS:</u> 31.095519537, -86.435215265	<u>PLSS(T-R-S):</u> 2N-16E-34			
<u>Land owner:</u> RB: Unknown/ LB: James & Mary Phillips	<u>Parcel No.:</u> RB: ? / LB: 13/49AC				
					
LB					
Risk Factor	Ranking	Score	Feature Within Range Descriptive Field		
<i>Channel Stability</i>	Fair	1	303(d) Yes METALS (MERCURY)		
<i>Channel Alteration</i>	None	0	Wetland Species No N/A		
<i>Bank Erosion</i>	Active	1	Rare and Imperiled No N/A		
<i>BEHI</i>	Moderate	0.5	Sturgeon Spawning No N/A		
<i>Local NPSP</i>	Obvious Sources	1	Candidate Mussels Yes FUZZY PIGTOE, SOUTHERN SANDSHELL		
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H. No N/A		
<i>Pipe Discharge</i>	Not Present	0			
<i>Water Odors</i>	Not Present	0			
<i>Fish Passage Barrier</i>	Not Present	0			
<i>RB: Riparian Buffer</i>	100+ ft	0			
<i>LB: Riparian Buffer</i>	100+ ft	0			
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
River Threat Index: 5.25		Notes: Shoring structure under Hwy 55 bridge composed of concrete and rip rap.			
Additional Site Features					
<i>Stream Channel Woody Material:</i> Infrequent					
<i>Impoundments:</i> None					
<i>Substrate Composition:</i> Medium Sand					
<i>Bank Material:</i> Sand					

Restoration Recommendations: TBD

Yellow River	co-0807-009	Severity Score 5																																																																		
<u>Common:</u> 9.3mi NW of Flora <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.096783472, -86.442999956 <u>Land owner:</u> USA- Conecuh Nat. Forest.	<u>County:</u> Covington <u>PLSS(T-R-S):</u> 2N-16E-34 <u>Parcel No.:</u> 3/251AC	<u>State:</u> Alabama																																																																		
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Five Runs Creek	co-0924-003	Severity Score 4.5																																																																																	
<u>Common:</u> 9mi S of Carolina, .08mi US of Co Rd 24 bridge crossing <u>Drainage:</u> Yellow River <u>GPS:</u> 31.10748248, -86.518107393 <u>Land owner:</u> USA- Conecuh Nat. Forest	<u>County:</u> Covington <u>PLSS(T-R-S):</u> 2N-15E-26 <u>Parcel No.:</u> 1	<u>State:</u> Alabama																																																																																	
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Notes: Forest road 0.2 mi east with primitive trail leading to this site.

Yellow River		co-0610-001	River Threat Index 4.25																																																																																		
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Notes: Recreational site and known Gulf Sturgeon spawning location. High sediment load coming from unimproved unpaved Drip Rock Road. Fake (?) surveillance closed circuit cameras installed on surrounding trees. Trash barrels present on shore.

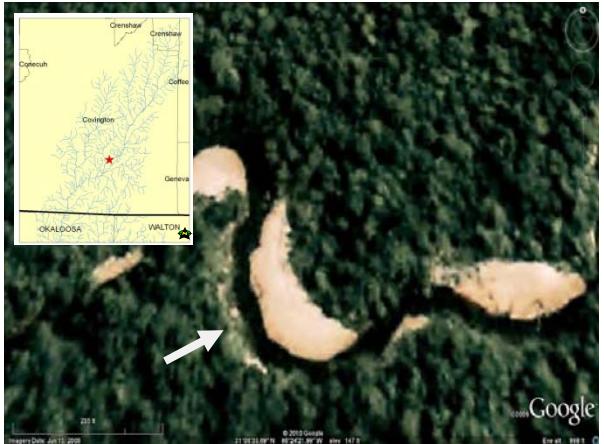
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<u>Common:</u> 9.9mi SW of Opp <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.171195284, -86.364996603 <u>Land owner:</u> T. Ivey Powell & Sons Inc.	<u>County:</u> Covington <u>PLSS(T-R-S):</u> 2N-17E-5 <u>Parcel No.:</u> 1/478AC	<u>State:</u> Alabama																																																																										
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Yellow River	co-0807-003	Severity Score 2.5																																																																										
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Yellow River	co-0805-004	Severity Score 2.25																																																																										
<u>Common:</u> 11.3mi SE of Carolina <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.079379625, -86.489218786 <u>Land owner:</u> RB: USA / LB: James & Patricia Battles	<u>County:</u> Covington <u>PLSS:</u> 1N-16E-6 <u>Parcel No.:</u> 2 / 1	<u>State:</u> Alabama																																																																										
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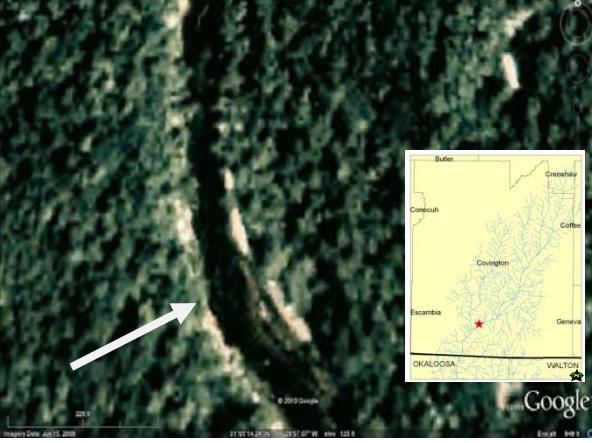
Notes: Numerous amounts of large woody debris and deep pools.

Five Runs Creek	co-0924-001	Severity Score 2.25																																																																		
<u>Common:</u> 7mi S of Libertyville <u>Drainage:</u> Yellow River <u>GPS:</u> 31.147578049, -86.482247038 <u>Land owner:</u> USA- Conecuh Nat. Forest	<u>County:</u> Covington <u>PLSS:</u> 2N-16E-7 <u>Parcel No.:</u> 1	<u>State:</u> Alabama																																																																		
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Yellow River	co-0805-002	Severity Score 1.75																																																																										
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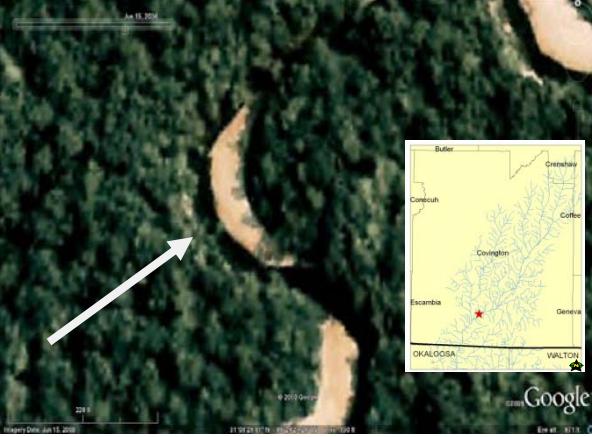
Notes: Some bank erosion apparent, may be natural meander bend incision.

Yellow River	co-0805-001	Severity Score 1.75																																																																										
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Notes: Some bank erosion apparent, possibly natural meander bend.

Yellow River	co-0807-005	Severity Score 1.75																																																																										
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Notes: Some erosion and fresh deposits across the channel. Top of left bank is vegetated with grasses which have shallow roots making this site more prone to erosion.

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<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	No	N/A
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover	Yes	N/A EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i>	Moderate	
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i>	None	
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i>	Medium Sand	
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i>	Sand	
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
River Threat Index:		1.75			

Notes: Some erosion is apparent, but may be due to natural meander incision.

Yellow River	co-0609-010	Severity Score 1.5																																																																										
<u>Common:</u> 12.5 W of Florala <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.001583541, -86.5380255 <u>Land owner:</u> RB: Rayonier Woodlands LLC / LB: Unknown	<u>County:</u> Covington <u>PLSS:</u> 1N-15E-34 <u>Parcel No.:</u> 7	<u>State:</u> Alabama																																																																										
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Yellow River	co-0813-002	Severity Score 1.5																																																																																	
<u>Common:</u> 7.3mi SE of Libertyville <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.174777403, -86.362564852 <u>Land owner:</u> T. Ivey Powell & Sons Inc	<u>County:</u> Covington <u>PLSS:</u> 2N-17E-5 <u>Parcel No.:</u> 1	<u>State:</u> Alabama																																																																																	
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Notes: None

Yellow River	co-0609-002	Severity Score 1																																													
<u>Common:</u> 1.3mi SW of Horn Hill <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.0578726, -86.5108143 <u>Land owner:</u> LB: Nathaniel Wright, Tr. / RB: USA	<u>County:</u> Covington <u>PLSS:</u> 1N-15E-13 <u>Parcel No.:</u> 2/ 3	<u>State:</u> Alabama																																													
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Yellow River	co-0805-003	Severity Score 1.75																																																																		
<u>Common:</u> 10.9mi NW of Flora <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.081969381, -86.487947841 <u>Land owner:</u> RB: USA / LB: James & Patricia Battles	<u>County:</u> Covington <u>PLSS:</u> 1N-16E-6 <u>Parcel No.:</u> 2/1	<u>State:</u> Alabama																																																																		
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Notes: Some bank erosion apparent may be natural meander incision. Large aggradational site across channel could indicate some channel instability.

Unnamed tributary	co-0810-r-017	Sedimentation Risk Index 30																																																																		
<u>Common:</u> 9.5mi S of Andalusia <u>Drainage:</u> Hog Foot Creek <u>GPS:</u> 31.172308, -86.510336 <u>Land owner:</u> Harold & Elizabeth Barrow DS, Beatrice & Fred Forte - US	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-15E-1 <u>Parcel No.:</u> 6; 3 <u>Road Name:</u> Groger Rd	<u>State:</u> Alabama																																																																		
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Sturgeon C.H.	No	N/A																																																																		

Notes: DS channel parallels private pond.

Boggy Creek

co-0810-r-019

Sedimentation Risk Index
34

Common: 11.0mi SW of Andalusia
Drainage: Hog Foot Creek
Land owner: Judith Anderson

GPS: 31.154053, -86.538403

County: Covington
PLSS (T-R-S): 2N-15E-10
Parcel No.: 2.01
Road Name: Hog Foot Rd

State: Alabama



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: BoC,CdC,DmB,MBA
Rt Approach Prism Fill: 0.3in
Lt Approach Prism Fill: 2.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	IRONCOLOR SHINER
Land Use/ Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Receiving large sediment loads from outlets.

Unnamed tributary	co-0901-r-014	Sedimentation Risk Index 34																																																																																							
<u>Common:</u> 7.9mi SE of Andalusia <u>Drainage:</u> Poplar Creek <u>GPS:</u> 31.185399140, -86.402745904 <u>Land owner:</u> Opal Couch	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-16E-36 <u>Parcel No.:</u> 1 <u>Road Name:</u> Nature Rd	<u>State:</u> Alabama																																																																																							
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SRI Total	High Risk	34																																																																																							
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303(d)	No	N/A																																																																																							
Wetland Species	No	N/A																																																																																							
Rare and Imperiled	No	N/A																																																																																							
Land Use/Cover	Yes	N/A/ PASTURE/HAY, DEVELOPED OPEN SPACE																																																																																							
Candidate Mussels	No	N/A																																																																																							
Sturgeon C.H.	No	N/A																																																																																							

Notes: Cattle access.

Rum Creek

co-0729-r-001

Sedimentation Risk Index
36

Common: 6.7mi NW of Laurel Hill
Drainage: Yellow River GPS: 31.029717, -86.545514
Land owner: USA – Conecuh National Forest

County: Covington
PLSS (T-R-S): 1N-15E-22
Parcel No.: 3
Road Name: Sanders Rd

State: Alabama



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: EuA, IbA, LuB, LyA, MBA, TrD
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 1.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Close proximity to YR main stem

Unnamed tributary	co-0810-r-005	<i>Sedimentation Risk Index</i> 36	
<u>Common:</u> 9.0mi N of Laurel Hill <u>Drainage:</u> Yellow River <u>GPS:</u> 31.092025, -86.500908 <u>Land owner:</u> USA- Conecuh Nat. Forest	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-15E-36 <u>Parcel No.:</u> 4 <u>Road Name:</u> Bass Rd	<u>State:</u> Alabama	
		DS	
Crossing Structure: US			
Risk Factor	Ranking	Score	
<i>US Channel Morph</i>	DA	3	
<i>DS Channel Morph</i>	DA	3	
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3	
<i>Upstream Skew Angle</i>	>30°	1	
<i>Crossing fill condition</i>	Poor/Bare soil	1	
<i>Inlet/Outlet Condition</i>	Blocked	1	
<i>Road Approach Material</i>	All Sand/Clay	3	
<i>Potential Eroded Volume Mean</i>	<21 y³	5	
<i>Approach Slope Mean</i>	<2%	5	
<i>Soil K Factor</i>	<0.20	5	
<i>Upstream Rt Outlet</i>	Vegetated	1	
<i>Upstream Lt Outlet</i>	Vegetated	1	
<i>Upstream Rt Ditch</i>	Vegetated	1	
<i>Upstream Lt Ditch</i>	Bare soil	0	
<i>Downstream Rt Outlet</i>	Bare soil	0	
<i>Downstream Lt Outlet</i>	Bare soil	0	
<i>Downstream Rt Ditch</i>	Bare soil	0	
<i>Downstream Lt Ditch</i>	Bare soil	0	
<i>Outlet Total</i>	Partially Improved Outlet System	3	
<i>Ditches Total</i>	Partially Improved Drainage System	3	
SRI Total	High Risk	36	
Additional Site Features			
<u>Crossing Type and Quantity:</u>	Culvert, 1		
<u>Crossing Materials:</u>	Metal		
<u>Soil Types:</u>	BoB, BoC, FoA, FuB		
<u>Rt Approach Prism Fill:</u>	0.25in		
<u>Lt Approach Prism Fill:</u>	0.25in		
Feature	Within Range	Descriptive Field	
303(d)	No	N/A	
Wetland Species	No	N/A	
Rare and Imperiled	No	N/A	
Land Use/ Cover	No	N/A	
Candidate Mussels	No	N/A	
Sturgeon C.H.	No	N/A	

Notes: Buried culvert.

Yellow River

co-0901-r-018

Sedimentation Risk Index
36

Common: 10.6mi NW of Flora
Drainage: Blackwater Bay GPS: 31.151966691, -86.380550391
Land owner: T. Ivey Powell & Sons Inc

County: Covington
PLSS (T-R-S): 2N-17E-7
Parcel No.: 3
Road Name: Cravey Bridge Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Reinforced Concrete
Soil Types: BgA,EuA,FoA,IbA
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 1.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	Yes	SOUTHERN SANDSHELL, CHOCTAW BEAN
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary	co-0810-r-001	Sedimentation Risk Index 38																																																																																							
<u>Common:</u> 6.3mi NW of Laurel Hill <u>Drainage:</u> Yellow River <u>Land owner:</u> Charles Barton	<u>GPS:</u> 31.023509, -86.541454	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-15E-27 <u>Parcel No.:</u> 3 <u>Road Name:</u> Sanders Rd																																																																																							
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Notes: Low flow. Close proximity to YR main stem.

Unnamed tributary	co-0810-r-006	Sedimentation Risk Index 38																																																																																							
<u>Common:</u> 8.8mi N of Laurel Hill <u>Drainage:</u> Yellow River <u>Land owner:</u> Kermit George	<u>GPS:</u> 31.084900, -86.501000	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-15E-1 <u>Parcel No.:</u> 1 <u>Road Name:</u> Bass Rd																																																																																							
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Unnamed tributary	co-0810-r-002	<i>Sedimentation Risk Index</i> 40																																																																		
<u>Common:</u> 6.2mi NW of Laurel Hill <u>Drainage:</u> Yellow River <u>Land owner:</u> Charles Barton	<u>GPS:</u> 31.021944, -86.541336	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-15E-27 <u>Parcel No.:</u> 3 <u>Road Name:</u> Sanders Rd																																																																		
																																																																				
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> EuA, IbA, KaA, IbA, LyA, MBA <u>Rt Approach Prism Fill:</u> 0.5in <u>Lt Approach Prism Fill:</u> 0.5in	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Feature</th> <th style="text-align: left;">Within Range</th> <th style="text-align: left;">Descriptive Field</th> </tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>No</td><td>N/A</td></tr> <tr><td>Land Use/ Cover</td><td>No</td><td>N/A</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	No	N/A	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																														
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Notes: Aggregate has washed DS and formed an island.

Unnamed tributary	co-0810-r-009	Sedimentation Risk Index 40																																																																		
<u>Common:</u> 8.2mi NW of Laurel Hill <u>Drainage:</u> Yellow River <u>GPS:</u> 31.072219, -86.520719 <u>Land owner:</u> R.Wayne & Dewain Bass-US, Linda Kloter-DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-15E-11 <u>Parcel No.:</u> 2; 2.02 <u>Road Name:</u> Bass Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Additional Site Features <p> <u>Crossing Type and Quantity:</u> Bridge, 1 <u>Crossing Materials:</u> Wood <u>Soil Types:</u> BoB,BoC,DmB,FoA,FuB,LuB,MBA,OrB <u>Rt Approach Prism Fill:</u> 0.10in <u>Lt Approach Prism Fill:</u> 0.25in </p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Feature</th> <th style="text-align: left;">Within Range</th> <th style="text-align: left;">Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Rare and Imperiled</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Land Use/ Cover</td> <td>Yes</td> <td>N/A/ DEVELOPED OPEN SPACE</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																														
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Notes: None

Unnamed tributary	co-0810-r-011	<i>Sedimentation Risk Index</i> 40																																																																																							
<u>Common:</u> 13.0mi NW of Flora <u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.136572, -86.483358 <u>Land owner:</u> USA-Conecuh Nat. Forest	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-16E-18 <u>Parcel No.:</u> 1 <u>Road Name:</u> Shiloh Cemetery Rd	<u>State:</u> Alabama																																																																																							
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Candidate Mussels	No	N/A																																																																																							
Sturgeon C.H.	No	N/A																																																																																							
Additional Site Features																																																																																									
<u>Crossing Type and Quantity:</u>	Culvert, 2																																																																																								
<u>Crossing Materials:</u>	PVC																																																																																								
<u>Soil Types:</u>	BoC,FoA,JbA,LyA,RaA																																																																																								
<u>Rt Approach Prism Fill:</u>	0.5in																																																																																								
<u>Lt Approach Prism Fill:</u>	0.5in																																																																																								

Notes: None

Hog Foot Creek

co-0810-r-018

Sedimentation Risk Index
40

Common: 9.8mi S of Andalusia
Drainage: Five Runs Creek GPS: 31.168303, -86.519333
Land owner: USA-Conecuh Nat. Forest

County: Covington
PLSS (T-R-S): 2N-15E-2
Parcel No.: 5
Road Name: Hog Foot Rd

State: Alabama



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	40

Additional Site Features

Crossing Type and Quantity: Bridge, 1; Culvert, 1
Crossing Materials: Reinforced Concrete; Metal
Soil Types: BoB,BoC,DmB,EuA,FoA,JbA,MBA
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	IRONCOLOR SHINER
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Culvert approx. 150 ft north of the bridge crossing. Dry and rip rap-filled.

Unnamed tributary	co-0810-r-021	<i>Sedimentation Risk Index</i> 40																																																																		
<u>Common:</u> 12.6mi SW of Andalusia <u>Drainage:</u> Persimmon Creek <u>GPS:</u> 31.139772, -86.567758 <u>Land owner:</u> USA-Conecuh Nat. Forest	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-15E-17 <u>Parcel No.:</u> 4 <u>Road Name:</u> Hog Foot Rd	<u>State:</u> Alabama																																																																		
																																																																				
Crossing Structure: DS	DS																																																																			
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> BoB,BoC,DmB,MBA,TrB,TrD <u>Rt Approach Prism Fill:</u> 0.25in <u>Lt Approach Prism Fill:</u> 2.0in	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H.	Within Range No No Yes Yes No No	Descriptive Field N/A N/A IRONCOLOR SHINER N/A EAST GULF COASTAL PLAIN SOUTHERN MESIC SLOPE FOREST N/A N/A																																																																	

Notes: None

Unnamed tributary	co-0901-r-013	<i>Sedimentation Risk Index</i> 40																																																																		
<u>Common:</u> 9.1mi SE of Andalusia <u>Drainage:</u> Poplar Creek <u>GPS:</u> 31.190133365, -86.405117679 <u>Land owner:</u> Rayonier Woodlands LLC	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-16E-36 <u>Parcel No.:</u> 2 <u>Road Name:</u> Nature Rd	<u>State:</u> Alabama																																																																		
																																																																				
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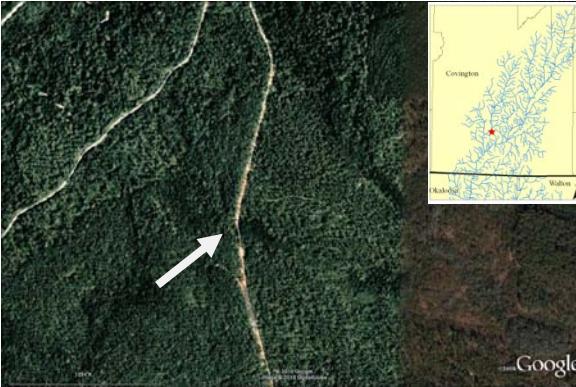
Notes: None

Unnamed tributary	co-0810-r-003	<i>Sedimentation Risk Index</i> 42																																																															
<u>Common:</u> 6.1mi NW of Laurel Hill <u>Drainage:</u> Yellow River <u>Land owner:</u> Charles Barton	<u>GPS:</u> 31.018119,-86.540964	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-15E-27 <u>Parcel No.:</u> 3 <u>Road Name:</u> Sanders Rd																																																															
																																																																	
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Notes: Sediment loading DS from outlets. Close proximity to YR main stem.

Unnamed tributary	co-0810-r-008	<i>Sedimentation Risk Index</i> 42																																																																		
<u>Common:</u> 8.2mi NW of Laurel Hill <u>Drainage:</u> Five Runs Creek <u>Land owner:</u> USA- Conecuh Nat. Forest	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-15E-2 <u>Parcel No.:</u> 1 <u>Road Name:</u> Bass Rd	<u>State:</u> Alabama																																																																		
																																																																				
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<u>Common:</u> 12.6mi NW of Flora <u>Drainage:</u> Gum Creek <u>Land owner:</u> USA-Conecuh Nat. Forest	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-16E-19 <u>Parcel No.:</u> 1 <u>Road Name:</u> Shiloh Cemetery Rd	<u>State:</u> Alabama																																																																		
																																																																				
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<u>Common:</u> 12.6mi NW of Florala <u>Drainage:</u> Poplar Creek <u>GPS:</u> 31.172833812, -86.412936652 <u>Land owner:</u> B.E. & Pearl Creel -DS, T.Ivey Powell & Sons Inc-US	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-16E-2/1 <u>Parcel No.:</u> 1;3 <u>Road Name:</u> Tim Powell Rd	<u>State:</u> Alabama																																																																	
																																																																			
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Notes: Fencing across US. Washed in aggregate.

Unnamed tributary	co-0810-r-020	<i>Sedimentation Risk Index</i> 44																																																																		
<u>Common:</u> 12.0mi SW of Andalusia <u>Drainage:</u> Camp Creek <u>Land owner:</u> USA-Conecuh Nat. Forest	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-15E-16 <u>Parcel No.:</u> 1 <u>Road Name:</u> Hog Foot Rd.	<u>State:</u> Alabama																																																																		
																																																																				
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Notes: Receiving high sediment loads from outlets and bare fill.

Unnamed tributary	co-0901-r-008	Sedimentation Risk Index 44																																																																		
<u>Common:</u> 12.5mi NW of Flora <u>Drainage:</u> Spring Branch <u>GPS:</u> 31.156458123, -86.443771608 <u>Land owner:</u> Thomas & Margaret Gross US. Mrs. JM Forte – DS North, WP Bulger – DS South	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-16E-10 <u>Parcel No.:</u> 6; 7; 7.01 <u>Road Name:</u> Bulger Town Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Notes: Rip rap DS stream bed

Unnamed tributary	co-0901-r-009	Sedimentation Risk Index 44																																																																		
<u>Common:</u> 12.0mi NW of Flora <u>Drainage:</u> Poplar Creek <u>GPS:</u> 31.151824411, -86.435759804 <u>Land owner:</u> Mildred Bulger -US, Paul & Sara Mixson -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-16E-10 <u>Parcel No.:</u> 14; 14.03 <u>Road Name:</u> Bulger Town Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Notes: None

Unnamed tributary	co-0901-r-011	<i>Sedimentation Risk Index</i> 42																																																																		
<u>Common:</u> 12.3mi NW of Florala <u>Drainage:</u> Poplar Creek <u>GPS:</u> 31.168688885, -86.412788931 <u>Land owner:</u> T & TW -DS, T.Ivey Powell & Sons Inc. -US	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-16E-2/1 <u>Parcel No.:</u> 7.01; 3 <u>Road Name:</u> Tim Powell Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Notes: Fence across US

Unnamed tributary	co-0901-r-015	Sedimentation Risk Index 44																																																																		
<u>Common:</u> 11.6mi SE of Andalusia <u>Drainage:</u> Yellow River <u>GPS:</u> 31.158752073, -86.391583846 <u>Land owner:</u> Patricia Moody	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-7 <u>Parcel No.:</u> 2 <u>Road Name:</u> Lake Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Notes: Highly vegetated

Unnamed tributary		co-0810-r-004	Sedimentation Risk Index 46																																																																																								
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Notes: None

Common: Drainage: Land owner:	9.5mi S of Andalusia Poplar Creek RTG1 LP (Dixon)	co-0901-r-006	Sedimentation Risk Index 46																																																																		
		<i>County:</i> Covington <i>PLSS (T-R-S):</i> 2N-16E-3 <i>Parcel No.:</i> 2.01 <i>Road Name:</i> Braswell Rd	<i>State:</i> Alabama																																																																		
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Notes: Old aggregate washed into outlets

Common: Drainage: Land owner:	11.6mi SE of Andalusia Yellow River GPS: 31.161090750, -86.388066995 Patricia Moody	co-0901-r-016	Sedimentation Risk Index 46
<u>County:</u>	<u>Covington</u>		<u>State:</u> Alabama
<u>PLSS (T-R-S):</u>	2N-17E-7		
<u>Parcel No.:</u>	2		
<u>Road Name:</u>	Lamar Lake Rd		
			
Crossing Structure: US		US	
Risk Factor	Ranking	Score	
<i>US Channel Morph</i>	C	5	
<i>DS Channel Morph</i>	C	5	
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3	
<i>Upstream Skew Angle</i>	>30°	1	
<i>Crossing fill condition</i>	Good/Vegetated	5	
<i>Inlet/Outlet Condition</i>	No Impairment	5	
<i>Road Approach Material</i>	All Sand/Clay	3	
<i>Potential Eroded Volume Mean</i>	>40 y³	1	
<i>Approach Slope Mean</i>	<2%	5	
<i>Soil K Factor</i>	<0.20	5	
<i>Upstream Rt Outlet</i>	Vegetated	1	
<i>Upstream Lt Outlet</i>	Vegetated	1	
<i>Upstream Rt Ditch</i>	Bare soil	0	
<i>Upstream Lt Ditch</i>	Bare soil	0	
<i>Downstream Rt Outlet</i>	Vegetated	1	
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<i>Downstream Lt Ditch</i>	Vegetated	1	
<i>Outlet Total</i>	Improved Outlet System	5	
<i>Ditches Total</i>	Partially Improved Drainage System	3	
SRI Total	Low Risk	46	
Additional Site Features			
<i>Crossing Type and Quantity:</i>	Culvert, 1		
<i>Crossing Materials:</i>	Metal		
<i>Soil Types:</i>	BoC,CdC,FoA,FuB,MBA		
<i>Rt Approach Prism Fill:</i>	1.0in		
<i>Lt Approach Prism Fill:</i>	0.5in		
		Feature	Within Range
		303(d)	No
		Wetland Species	No
		Rare and Imperiled	No
		Land Use/ Cover	Yes
		Candidate Mussels	No
		Sturgeon C.H.	No
			N/A/ DEVELOPED OPEN SPACE
			N/A
			N/A

Notes: Rip rap in stream bed.

Five Runs Creek

co-0810-r-007

Sedimentation Risk Index
48

Common: 8.2mi NW of Laurel Hill
Drainage: Yellow River GPS: 31.076217, -86.510185
Land owner: USA-Conecuh Nat. Forest

County: Covington State: Alabama
PLSS (T-R-S): 1N-15E-1
Parcel No.: 1
Road Name: Bass Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	48

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Metal
Soil Types: BoC,EuA,FoA,FuB,IbA,RaA
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.25in

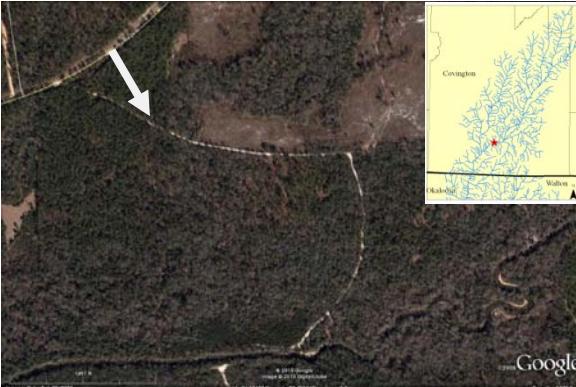


Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- OPEN UNDERSTORY MODI
Candidate Mussels	Yes	SOUTHERN SANDSHELL, CHOCTAW BEAN
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary	co-0810-r-010	Sedimentation Risk Index 48																																																																		
<u>Common:</u> 13.1mi NW of Flora <u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.141211, -86.479211 <u>Land owner:</u> USA- Conecuh National Forest	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-16E-17 <u>Parcel No.:</u> 5 <u>Road Name:</u> Shiloh Cemetery Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Notes: None

Unnamed tributary	co-0810-r-011	Sedimentation Risk Index 48																																																																																							
<u>Common:</u> 10.1mi NW of Floala <u>Drainage:</u> Yellow River <u>Land owner:</u> Catherine Dixon Roland	<u>GPS:</u> 31.095753, -86.462847	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-16E-33 <u>Parcel No.:</u> 2.01 <u>Road Name:</u> Drip Rock Rd																																																																																							
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Sturgeon C.H.	No	N/A																																																																																							

Notes: Dripping rock road. Feeds DS of sturgeon on YR main stem.

Notes: None

Unnamed tributary	co-0901-r-017	Sedimentation Risk Index 50																																																																		
<u>Common:</u> 11.0mi NW of Flora <u>Drainage:</u> Yellow River <u>GPS:</u> 31.157421325, -86.381592263 <u>Land owner:</u> T. Ivey Powell & Sons Inc	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-7 <u>Parcel No.:</u> 3 <u>Road Name:</u> Cravey Bridge Rd	<u>State:</u> Alabama																																																																		
																																																																				
Crossing Structure: DS		US																																																																		
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SRI Total	Low Risk	50																																																																		
Additional Site Features <p> <u>Crossing Type and Quantity:</u> Bridge,1 <u>Crossing Materials:</u> Reinforced Concrete <u>Soil Types:</u> BgA,EuA,FoA,FuB,MBA,RaA <u>Rt Approach Prism Fill:</u> 0.25in <u>Lt Approach Prism Fill:</u> 0.75in </p>		<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>No</td><td>N/A</td></tr> <tr><td>Land Use/ Cover</td><td>Yes</td><td>N/A/ LOW INTENSITY DEVELOPED</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A/ LOW INTENSITY DEVELOPED	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																													
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Notes: Poorly maintained rd.

Buck Creek

co-0729-r-002

Sedimentation Risk Index
52

Common: 5.7mi NW of Laurel Hill
Drainage: Yellow River GPS: 31.002600, -86.546578
Land owner: Rayonier Woodlands LLC

County: Covington State: Alabama
PLSS (T-R-S): 1N-15E-34
Parcel No.: 7
Road Name: Moores Mill Creek Rd



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
SRI Total	Low Risk	52

Additional Site Features

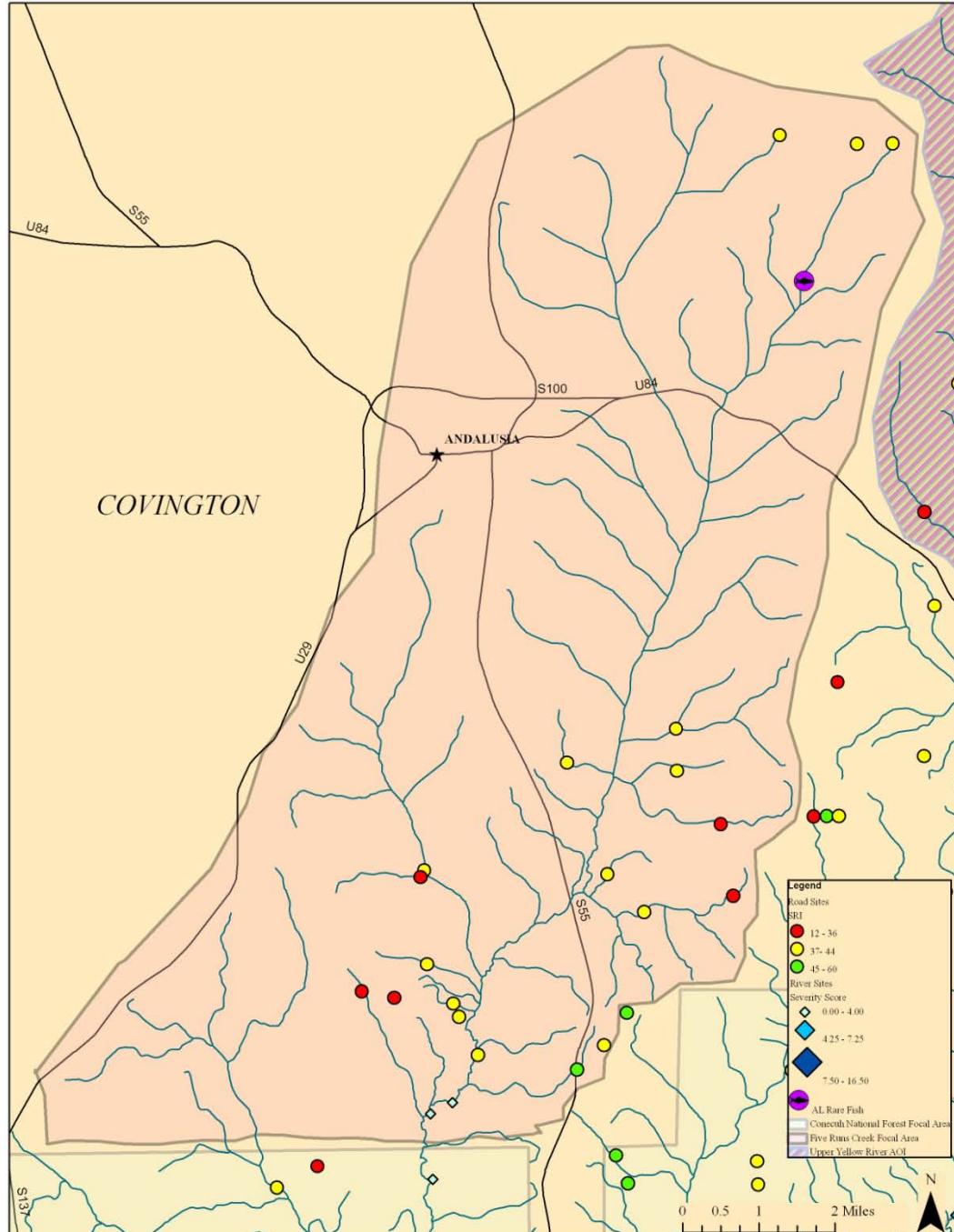
Crossing Type and Quantity: Bridge, 1
Crossing Materials: Reinforced Concrete
Soil Types: CdB,EuA,LyA,MBA,TrD
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Close proximity to YR main stem.

Appendix E. Five Runs Creek Focal Area. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



Five Runs Creek	co-0923-001	Severity Score 5																																																																										
<u>Common:</u> 8.5 miles S of Andalusia <u>Drainage:</u> Yellow River <u>GPS:</u> 31.1836621, -86.480343699 <u>Land owner:</u> Roger & Effie Sightler	<u>County:</u> Covington <u>PLSS:</u> 3N-16E-32 <u>Parcel No.:</u> 2	<u>State:</u> Alabama																																																																										
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Notes: Private road leading to creek's edge, ending at the pictured bare spot.

Five Runs Creek	co-0923-002	Severity Score 2																																																																		
<u>Common:</u> 8.6mi S of Andalusia <u>Drainage:</u> Yellow River <u>GPS:</u> 31.182184602, -86.485253561 <u>Land owner:</u> LB: C&G LLC/ RB: James & Mira Walker	<u>County:</u> Covington <u>PLSS:</u> 3N-16E-31 <u>Parcel No.:</u> 3/ 1.03	<u>State:</u> Alabama																																																																		
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Notes: Outside bend- natural feature.

Unnamed tributary

co-1029-r-008

Sedimentation Risk Index
24

Common: 7.0mi NE of Andalusia
Drainage: Five Runs Creek GPS: 31.366621734, -86.385947566
Land owner: John & Rosemary Powers

County: Covington
PLSS (T-R-S): 5N-17E-30
Parcel No.: 2
Road Name: George Mims Rd



Crossing Structure: US



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	24

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: CdB,CdC,DmB,MBA,OrB,OrC
Rt Approach Prism Fill: 0.15in
Lt Approach Prism Fill: 0.15in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLUENOSE SHINER
Land Use/Cover	Yes	N/A /EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Submerged culvert draining US agriculture pond.

Unnamed tributary	co-0901-r-012	Sedimentation Risk Index 30																																																																		
<u>Common:</u> 6.8mi SE of Andalusia <u>Drainage:</u> Poplar Creek <u>GPS:</u> 31.223505943, -86.417912932 <u>Land owner:</u> Sammy & Bobby Brown	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-16E-14 <u>Parcel No.:</u> 10 <u>Road Name:</u> Sammy Brown Road	<u>State:</u> Alabama																																																																		
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Additional Site Features <p> <u>Crossing Type and Quantity:</u> Culvert, 2 <u>Crossing Materials:</u> PVC <u>Soil Types:</u> BnB,BnC,CdB,CdC,DmB,LyA <u>Rt Approach Prism Fill:</u> 0.2in <u>Lt Approach Prism Fill:</u> 0.5in </p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Feature</th> <th style="text-align: left;">Within Range</th> <th style="text-align: left;">Descriptive Field</th> </tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>No</td><td>N/A</td></tr> <tr><td>Land Use/ Cover</td><td>Yes</td><td>N/A / LOW INTENSITY DEVELOPED</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A / LOW INTENSITY DEVELOPED	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																													
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Sturgeon C.H.	No	N/A																																																																		

Notes: Fencing across DS. Channelized.

Unnamed tributary

co-0810-r-015

Sedimentation Risk Index
34

Common: 7.2mi S of Andalusia
Drainage: Five Runs Creek GPS: 31.204378, -86.493136
Land owner: Royce & Vonnie Wiggins

County: Covington State: Alabama
PLSS (T-R-S): 3N-16E-19/30
Parcel No.: 9
Road Name: Wiggins Farm Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: BoB,CdC,DmB,FoA,FuB,MBA,RaA
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A / PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: US agricultural land use.

Unnamed tributary

co-0811-r-004

Sedimentation Risk Index
34

Common: 5.6mi SW of Andalusia
Drainage: Bay Branch GPS: 31.227314, -86.487211
Land owner: Dixon Family Partnership LP

County: Covington
PLSS (T-R-S): 3N-16E-18
Parcel No.: 1
Road Name: Bass Bridge Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: BoB,BoC,CdC,DmB,FoA,MBA
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.75in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Lots of garbage in US channel and DS outlets. 1/2 up RT approach clay pit.

Unnamed tributary

co-0904-r-004

Sedimentation Risk Index
34

Common: 6.1mi SE of Andalusia
Drainage: Five Runs Creek GPS: 31.237184668, -86.420553065
Land owner: Alice Childree -DS, Rayonier Woodlands LLC -US

County: Covington
PLSS (T-R-S): 3N-16E-11
Parcel No.: 5; 4
Road Name: Head Farm Rd

State: Alabama



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

Additional Site Features

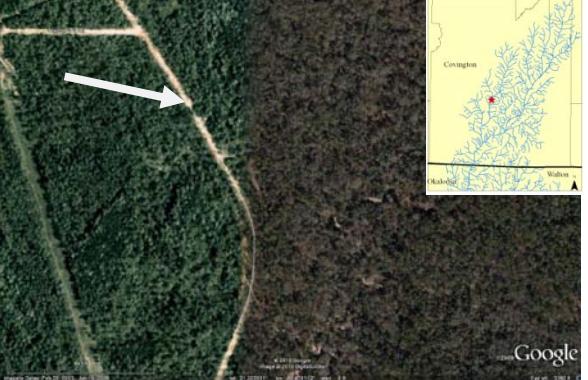
Crossing Type and Quantity: Bridge, 1; Culvert, 2
Crossing Materials: Reinforced Concrete; PVC
Soil Types: CdB,CdC,MBA
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A /EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MOD
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: 2 culverts draining the pond to the bridge crossing.

Unnamed tributary	co-0810-r-14a	<i>Sedimentation Risk Index</i> 38																																																																		
<u>Common:</u> 7.4mi S of Andalusia <u>Drainage:</u> Five Runs Creek <u>Land owner:</u> C&G LLC	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-16E-29 <u>Parcel No.:</u> 1 <u>Road Name:</u> Bass Bridge Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Notes: Significant difference between US and DS channel conditions. No flow through Lt Culvert.

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Notes: US channelized ditch.

Unnamed tributary	co-0904-r-003	Sedimentation Risk Index 38																																																																																							
<u>Common:</u> 5.2mi SE of Andalusia <u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.247880453, -86.429983593 <u>Land owner:</u> Dixon Family Partnership LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-16E-10 <u>Parcel No.:</u> 1 <u>Road Name:</u> Head Farm Rd	<u>State:</u> Alabama																																																																																							
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Notes: Fence across US

Unnamed tributary	co-0810-r-016	Sedimentation Risk Index 36																																																																		
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Notes: Fencing across DS

Unnamed tributary	co-1029-r-006	<i>Sedimentation Risk Index</i> 40																																																																		
<u>Common:</u> 6.1mi NE of Andalusia <u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.368316317, -86.406643287 <u>Land owner:</u> JS&Abbie Wood	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 5N-16E-25 <u>Parcel No.:</u> 9 <u>Road Name:</u> Stant Wood Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Notes: Hydraulic jump into US inlet.

Unnamed tributary	co-0811-r-005	<i>Sedimentation Risk Index</i> 42																																																																																							
<u>Common:</u> 6.7mi S of Andalusia <u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.210694, -86.485814 <u>Land owner:</u> W&C Maddox -US, S&J Anderson -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-16E-19 <u>Parcel No.:</u> 8.01; 5 <u>Road Name:</u> Bass Bridge Rd	<u>State:</u> Alabama																																																																																							
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Notes: US wetland visible from aerial.

Unnamed tributary	co-0901-r-001	<i>Sedimentation Risk Index</i> 42																																																																		
<u>Common:</u> 6.6mi SE of Andalusia <u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.220477682, -86.437669425 <u>Land owner:</u> Harold Powell - US, Byron & Linda Kilpatrick -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-16E-15 <u>Parcel No.:</u> 3.05; 3.06 <u>Road Name:</u> Eddie Cannon Rd	<u>State:</u> Alabama																																																																		
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Notes: Some old gravel present in crossing.

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<u>Common:</u> 8.1mi SE of Andalusia <u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.195118190, -86.446699986 <u>Land owner:</u> Royce Sightle	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-16E-27 <u>Parcel No.:</u> 5.01 <u>Road Name:</u> Brasville Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Notes: DS outfall drop.

Unnamed tributary	co-1029-r-009	Sedimentation Risk Index 42																																																																																							
<u>Common:</u> 7.2mi NE of Andalusia <u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.366542969, -86.381605324 <u>Land owner:</u> Minnie Sorrells -US, John & Rosemary Powers--DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 5N-17E-30 <u>Parcel No.:</u> 20; 2 <u>Road Name:</u> George Mims Rd	<u>State:</u> Alabama																																																																																							
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Rare and Imperiled	Yes	BLUENOSE SHINER																																																																																							
Land Use/ Cover	Yes	N/A / SUCCESSIONAL SHRUB/SCRUB (OTHER)																																																																																							
Candidate Mussels	No	N/A																																																																																							
Sturgeon C.H.	No	N/A																																																																																							

Notes: None

Five Runs Creek

co-0810-r-013

Sedimentation Risk Index
44

Common: 8.0mi S of Andalusia
Drainage: Yellow River GPS: 31.193375, -86.474669
Land owner: James and Judy Bowman -US, C&G LLC -DS

County: Covington
PLSS (T-R-S): 3N-16E-29
Parcel No.: 2.01; 1
Road Name: Bass Bridge Rd



Crossing Structure: DS

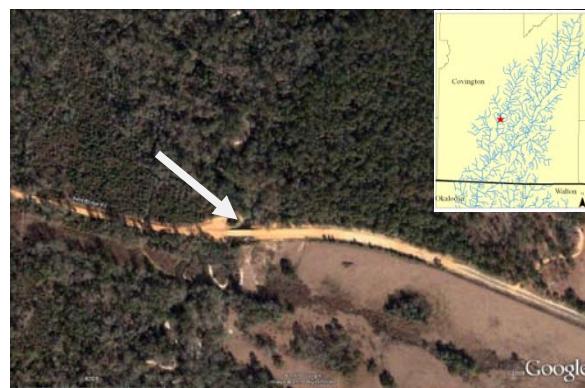


US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Reinforced Concrete
Soil Types: BoB,CdC,DmB,EuA,FoA,IbA,MBA,RaA
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A / LOW INTENSITY DEVELOPED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Some rip rap loading into stream. Public access area. Highly sediment loaded outlets.

Bay Branch	co-0811-r-003	Sedimentation Risk Index 44																																																																		
<u>Common:</u> 5.5mi S of Andalusia <u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.228644, -86.486386 <u>Land owner:</u> Dixon Family Partnership LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-16E-18 <u>Parcel No.:</u> 1 <u>Road Name:</u> Bay Branch Rd	<u>State:</u> Alabama																																																																		
		US																																																																		
Crossing Structure:																																																																				
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Additional Site Features <p> <u>Crossing Type and Quantity:</u> Bridge, 1 <u>Crossing Materials:</u> Reinforced Concrete <u>Soil Types:</u> BoB,BoC,CdC,DmB,FoA,MBA <u>Rt Approach Prism Fill:</u> 0.25in <u>Lt Approach Prism Fill:</u> 0.15in </p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Feature</th> <th style="text-align: left;">Within Range</th> <th style="text-align: left;">Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Rare and Imperiled</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Land Use/ Cover</td> <td>Yes</td> <td>N/A / DEVELOPED OPEN SPACE</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A / DEVELOPED OPEN SPACE	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																														
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Candidate Mussels	No	N/A																																																																		
Sturgeon C.H.	No	N/A																																																																		

Notes: None

Unnamed tributary

co-0904-r-001

Sedimentation Risk Index
44

Common: 4.4mi SE of Andalusia
Drainage: Five Runs Creek GPS: 31.248950899, -86.454617271
Land owner: Mary Beesley Tr. -US, Bobby Elmore -DS

County: Covington State: Alabama
PLSS (T-R-S): 3N-16E-4/9
Parcel No.: 20; 3
Road Name: Hanegan Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	BEAVER DAM	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
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<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: CdC,DmB,FuB,MBA
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A / DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Multiple beaver dams US

Unnamed tributary	co-0904-r-002	<i>Sedimentation Risk Index</i> 44																																																																																							
<u>Common:</u> 4.8mi SE of Andalusia <u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.255353548, -86.430402047 <u>Land owner:</u> Dixon Family Partnership LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-16E-3 <u>Parcel No.:</u> 1 <u>Road Name:</u> Head Farm Rd	<u>State:</u> Alabama																																																																																							
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Sturgeon C.H.	No	N/A																																																																																							

Notes: Significant difference between US and DS channel. Note sediment loading from DS Rt outlet pictured.

Unnamed tributary

co-1029-r-007

Sedimentation Risk Index
44

Common: 6.9mi NE of Andalusia
Drainage: Five Runs Creek GPS: 31.366635680, -86.389569020
Land owner: Norma Davis & Rexil Larson

County: Covington
PLSS (T-R-S): 5N-17E-30
Parcel No.: 3
Road Name: George Mims Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: CdB,CdC,DmB,MBA,OrB,OrC
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.15in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLUENOSE SHINER
Land Use/ Cover	Yes	N/A /EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

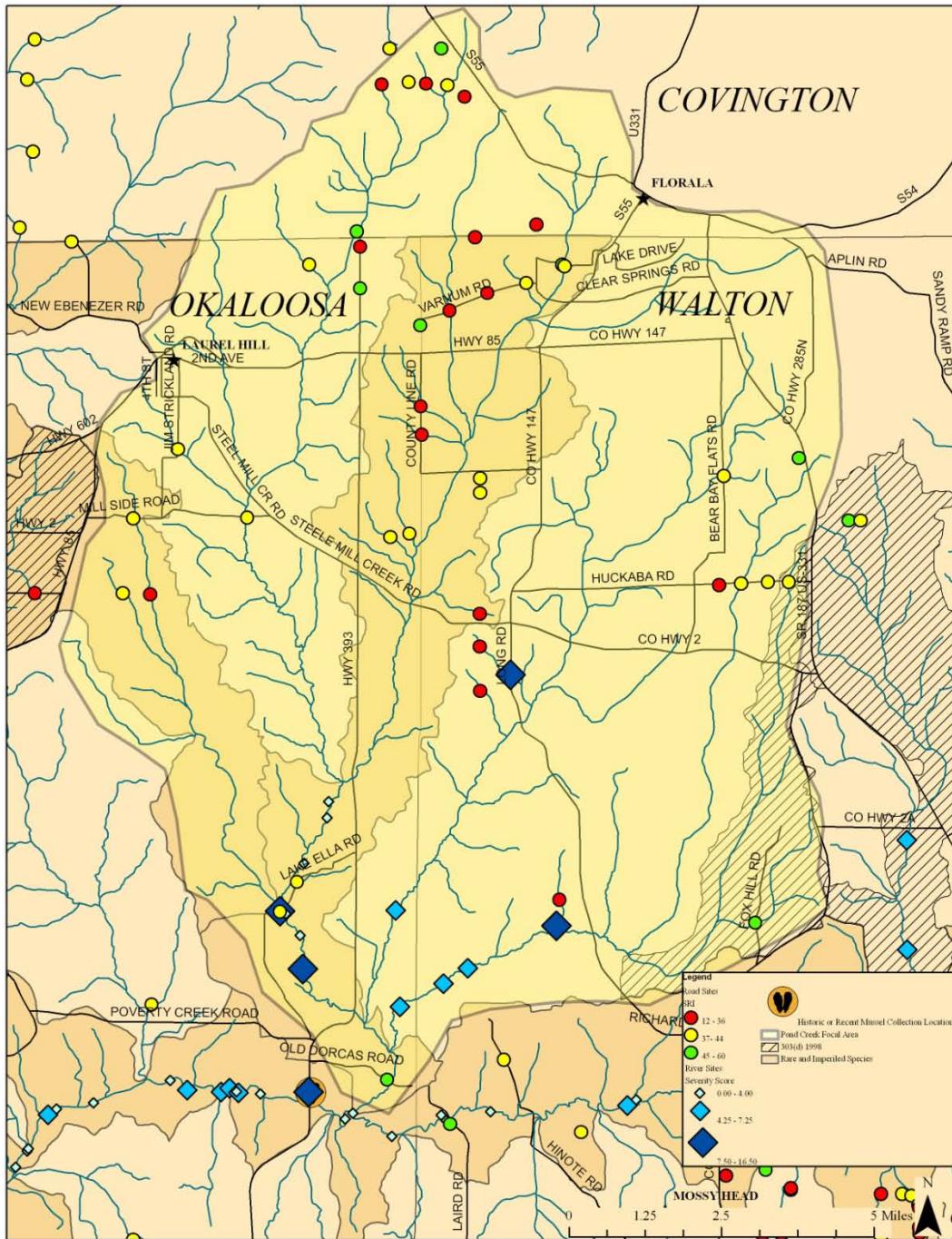
Unnamed tributary	co-0901-r-002	<i>Sedimentation Risk Index</i> 42																																																																		
<u>Common:</u> 5.9mi SE of Andalusia <u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.227759483, -86.445759086 <u>Land owner:</u> Harold Powell -US, Robert Bishop -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-16E-15 <u>Parcel No.:</u> 3.02; 3 <u>Road Name:</u> Eddie Cannon Rd	<u>State:</u> Alabama																																																																		
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Notes: US channelized ditch.

Unnamed tributary	co-0901-r-005	Sedimentation Risk Index 48																																																																		
<u>Common:</u> 8.3mi S of Andalusia <u>Drainage:</u> Five Runs Creek <u>GPS:</u> 31.190552742, -86.452761413 <u>Land owner:</u> Janice Elmore-US, H&F Elmore, -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-16E-28 <u>Parcel No.:</u> 20; 3.01 <u>Road Name:</u> Elnor Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Notes: Short approach lengths. Close proximity to HWY 55.

Appendix F. Pond Creek Watershed Focal Area. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



Unnamed tributary	wa-1007-001	Severity Score 12																																																															
<u>Common:</u> 13.8mi NE of Crestview, .6mi DS from Long Rd <u>Drainage:</u> Long Creek <u>GPS:</u> 30.830327056, -86.35221467 <u>Land owner:</u> Parke Lexington II- Gainsville Ltd	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 4N-21W-21 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																															
																																																																	
																																																																	
Pond overflow channel going into Long Creek (tree line)- DS																																																																	
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Notes: The overflow channel is lacking a riparian buffer leading to excessive runoff during flood events.
 Some shoring structure has been used, but, ineffectively. Obvious aggradations are found downstream from this site.

Pond Creek	ok-0928-001	Severity Score 9.5																																																																		
<u>Common:</u> 9.8mi NE of Crestview <u>Drainage:</u> Shoal River <u>Land owner:</u> Odessa Jackson	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 4N-22W-22 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																																		
																																																																				
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Notes: Collapsed bridge causes a possible fish passage barrier and collects trash. Bridge blow out is likely due to high velocity flows during storm events from the widening and straightening of Pond Creek after it's confluence with Juniper Creek 0.10 miles upstream.

Pond Creek	ok-0928-004	Severity Score 9																																													
<u>Common:</u> 9.7mi NE from Crestview, 1.10mi DS Juniper Creek <u>Drainage:</u> Shoal River <u>GPS:</u> 30.820158372, -86.422168029 <u>Land owner:</u> Robert & Celia Bannerman	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 4N-22W-26 <u>Parcel No.:</u> 5	<u>State:</u> Florida																																													
																																															
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Notes: Shoring structure on right bank covers about 10% of site and is composed of rip rap and gabion Beer cans and primitive campsite indicate private use and access from local residents. Old power line crossing intersects this site. Sediment/sand loading into stream.

Unnamed tributary	wa-1105-004	Severity Score 7.5																																																																																	
<u>Common:</u> 7.6mi SE of Laurel Hill, Long Rd bridge crossing <u>Drainage:</u> Pine Log Creek <u>GPS:</u> 30.890084885, -86.364442063 <u>Land owner:</u> Ronald Hurst- DS/ Jasper Dickenson, US	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 5N-21W-32 <u>Parcel No.:</u> 5.001/ 4.001	<u>State:</u> Florida																																																																																	
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Notes: Rip rap and box culvert outfall drop blocking flow and fish passage. Sediment islands DS. Channel wide and shallow, as opposed to US narrow.

Long Creek	wa-1007-003	Severity Score 7																																																																																	
<u>Common:</u> 13mi S of Flora <u>Drainage:</u> Pond Creek <u>GPS:</u> 30.816668947, -86.383371139 <u>Land owner:</u> LB: John & Leah Smith / RB: David & Toni Mayo	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 4N-21W-30 <u>Parcel No.:</u> 1.041 / 1	<u>State:</u> Florida																																																																																	
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<i>RB: Riparian Buffer</i>	0-29 ft	0.75																																																																																	
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Notes: Site located on private rd- Hickory Tree Ln. Note nearby impoundment in aerial.

Private bridge and power line crossing. Sediment load coming from power line crossing and large culverts under road before bridge crossing.

Pine Log Creek	ok-1106-001	Severity Score 7
<u>Common:</u> 11.5mi NE of Crestview, 0.17mi S Lumber Ridge Rd <u>Drainage:</u> Shoal River <u>GPS:</u> 30.834270512, -86.395643623 <u>Land owner:</u> Parke Lexington II- Gainsville LTD	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 4N-22W-24 <u>Parcel No.:</u> 2.001A	<u>State:</u> Florida
		
Risk Factor <i>Channel Stability</i> <i>Channel Alteration</i> <i>Bank Erosion</i> <i>BEHI</i> <i>Local NPS</i> <i>Shoring Structures</i> <i>Pipe Discharge</i> <i>Water Odors</i> <i>Fish Passage Barrier</i> <i>RB: Riparian Buffer</i> <i>LB: Riparian Buffer</i> <i>RB: Floodplain Access</i> <i>LB: Floodplain Access</i> River Threat Index:	Ranking Good In Recovery Not Eroding High Obvious Sources Present Not Present Not Present Not Present 0-29 ft 0-29 ft Full Full Score 0.5 1 0 1 1.5 1.5 0 0 0 0.75 0.75 0 0 7	Feature Within Range Descriptive Field 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H. Additional Site Features <i>Stream Channel Woody Material:</i> Moderate <i>Impoundments:</i> Manmade- Collapsed Bridge <i>Substrate Composition:</i> Medium Sand <i>Bank Material:</i> Sand and Clay

Notes: Borrow pit/ logging operation runoff entering Pine Log Creek.

Historical photos show extensive clear cutting and development of borrow pits.

DS shows change to point bar development.

Long Creek	wa-1007-002	Severity Score 5																																												
<u>Common:</u> 12mi NE of Crestview <u>Drainage:</u> Pond Creek <u>GPS:</u> 30.820168208, -86.376672959 <u>Land owner:</u> Alan & Deena Bryant	<u>County:</u> Walton <u>PLSS/T-R-S:</u> 4N-21W-30 <u>Parcel No.:</u> 1.013	<u>State:</u> Florida																																												
 RB																																														
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<p>Notes: House 50 yards off right bank and road crossing.</p> <hr/> <hr/> <hr/>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Feature</th> <th style="text-align: left; padding: 2px;">Within Range</th> <th style="text-align: left; padding: 2px;">Descriptive Field</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">303(d)</td><td style="padding: 2px;">No</td><td style="padding: 2px;">N/A</td></tr> <tr> <td style="padding: 2px;">Wetland Species</td><td style="padding: 2px;">No</td><td style="padding: 2px;">N/A</td></tr> <tr> <td style="padding: 2px;">Rare and Imperiled</td><td style="padding: 2px;">No</td><td style="padding: 2px;">N/A</td></tr> <tr> <td style="padding: 2px;">Land Use/ Cover</td><td style="padding: 2px;">Yes</td><td style="padding: 2px; text-align: center;">RESIDENTIAL/ STREAMS AND WATERWAYS</td></tr> <tr> <td style="padding: 2px;">Candidate Mussels</td><td style="padding: 2px;">No</td><td style="padding: 2px;">N/A</td></tr> <tr> <td style="padding: 2px;">Sturgeon C.H.</td><td style="padding: 2px;">No</td><td style="padding: 2px;">N/A</td></tr> </tbody> </table> <p>Additional Site Features</p> <p> <i>Stream Channel Woody Material:</i> Infrequent <i>Impoundments:</i> None <i>Substrate Composition:</i> Medium Sand <i>Bank Material:</i> Sand </p>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	RESIDENTIAL/ STREAMS AND WATERWAYS	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																							
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Long Creek		ok-1007-004	Severity Score 4.5
<u>Common:</u> 4.7mi N of Mossy Head		<u>County:</u> Okaloosa	
<u>Drainage:</u> Pond Creek	<u>GPS:</u> 30.811168453, -86.395416242	<u>PLSS(T-R-S):</u> 4N-22W-24	<u>State:</u> Florida
<u>Land owner:</u> Cecil Anchors Sr.		<u>Parcel No.:</u> 2.002	
			
RB			
Risk Factor	Ranking	Score	Feature
<i>Channel Stability</i>	Good	0.5	303(d)
<i>Channel Alteration</i>	Historic, Mostly Recovered	0.5	Wetland Species
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover
<i>Local NPSP</i>	Moderate Potential	1	AGRICULTURAL/ STREAMS AND WATERWAYS
<i>Shoring Structures</i>	Present	1.5	Candidate Mussels
<i>Pipe Discharge</i>	Not Present	0	Sturgeon C.H.
<i>Water Odors</i>	Not Present	0	
<i>Fish Passage Barrier</i>	Not Present	0	
<i>RB: Riparian Buffer</i>	50-99 ft	0.25	Additional Site Features
<i>LB: Riparian Buffer</i>	50-99 ft	0.25	<i>Stream Channel Woody Material:</i> Infrequent
<i>RB: Floodplain Access</i>	Full	0	<i>Impoundments:</i> None
<i>LB: Floodplain Access</i>	Full	0	<i>Substrate Composition:</i> Medium Sand
River Threat Index: 4.5		<i>Bank Material:</i> Sand	

Notes: Logging road.

Pond Creek	ok-0922-003	Severity Score 3.75			
<u>Common:</u> 10.1mi NE of Crestview <u>Drainage:</u> Shoal River <u>GPS:</u> 30.845509026, -86.421623762 <u>Land owner:</u> Schweizer Family Inc					
<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 4N-22W-14 <u>Parcel No.:</u> 9					
 LB	 Google				
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Not Eroding	0	Rare and Imperiled	Yes	IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Low-Very Low	0	Land Use/ Cover	Yes	VACANT RESIDENTIAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	1.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Present	1.5	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features <i>Stream Channel Woody Material:</i> Infrequent <i>Impoundments:</i> None <i>Substrate Composition:</i> Medium Sand <i>Bank Material:</i> Sand and Roots		
<i>Water Odors</i>	Not Present	0			
<i>Fish Passage Barrier</i>	Not Present	0			
<i>RB: Riparian Buffer</i>	100+ ft	0			
<i>LB: Riparian Buffer</i>	0-29 ft	0.25			
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
River Threat Index:		3.75			

Notes: Private residence. Pond Creek Rd 250 ft off Lt Bank

Pond Creek	ok-0922-002	Severity Score 3			
<u>Common:</u> 8.2mi SE of Laurel Hill <u>Drainage:</u> Shoal River <u>GPS:</u> 30.856246619, -86.415180276 <u>Land owner:</u> Randall & Sheila Bates	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 4N-22W-11 <u>Parcel No.:</u> 1.006	<u>State:</u> Florida			
					
RB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover	Yes	ACREAGE NOT ZONED FOR AGRICULTURE/ WETLAND FORESTED MIX
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	Full	0			
River Threat Index: 3					

Notes: None

Pond Creek	ok-0922-001	Severity Score 3																																																																																	
<u>Common:</u> 7.8mi SE of Laurel Hill <u>Drainage:</u> Shoal River <u>GPS:</u> 30.860098559, -86.414757161 <u>Land owner:</u> Daniel & Angela Raybon	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 4N-22W-11 <u>Parcel No.:</u> 1.002	<u>State:</u> Florida																																																																																	
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Notes: Anaerobic water odors. Private road access site or old logging road?

Pond Creek	ok-0928-002	Severity Score 2.75																																																																		
<u>Common:</u> 9.9mi NE of Crestview <u>Drainage:</u> Shoal River <u>GPS:</u> 30.83335592, -86.426809628 <u>Land owner:</u> Odessa Jackson	<u>County:</u> Okaloosa <u>PLSS:</u> 4N-22W-22 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																																		
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Notes: RT bank target practice for residence/camp on LB

Pond Creek	ok-0928-003	Severity Score 1.75																																																																																	
<u>Common:</u> 9.9mi SE of Crestview <u>Drainage:</u> Shoal River <u>GPS:</u> 30.828322813, -86.422834915 <u>Land owner:</u> RB: Tonya Roberts & Bernard Harris / LB: Curtis Johnson	<u>County:</u> Okaloosa <u>PLSS:</u> 4N-22W-23 <u>Parcel No.:</u> 1.0503/1.069	<u>State:</u> Florida																																																																																	
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Notes: Aggradational Site: Large, fresh deposits common. Significant change since the confluence with Juniper Creek, there were very few point bars above the confluence.

Unnamed tributary

wa-0617-r-004

Sedimentation Risk Index
24

Common: 4.3mi SE of Laurel Hill
Drainage: Pond Creek GPS: 30.947250, -86.388542
Land owner: Rayonier Timberlands Inc-DS, Danny Riley-US

County: Walton
PLSS(T-R-S): 5N-21-07; 5N-22-12
Parcel No.: 2; 3.008
Road Name: County Line Rd.

State: Florida



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	24

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 2,3,10,11,15,20
Rt Approach Prism Fill: 2.0in
Lt Approach Prism Fill: 0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Left culvert blocked

Unnamed tributary

wa-0625-r-002

Sedimentation Risk Index
24

Common: 3mi SW of Flora
Drainage: Pond Creek
Land owner: Robert Grier

GPS: 30.980783, -86.370153

County: Walton
PLSS(T-R-S): 6N-21-32
Parcel No.: 4.001
Road Name: Varnum Rd

State: Florida



Crossing Structure: DS

DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	24



Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 13,14,15,22,23,60,61
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Pond drainage with buried culvert

Unnamed tributary

wa-0706-r-003

Sedimentation Risk Index
24

Common: 7.9mi SW of Florala
Drainage: Pine Log Creek GPS: 30.896728, -86.372864
Land owner: Shiela Hoke- DS, Boncile Lowery- US

County: Walton
PLSS(T-R-S): 5N-21-29/30
Parcel No.: 7; 6
Road Name: Allen Rd

State: Florida



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	High Risk	24



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 10,11,13,14,15,23,29
Rt Approach Prism Fill: 2.0in
Lt Approach Prism Fill: 2.0in

Notes: None

Horsehead Creek

co-0731-r-008

Sedimentation Risk Index
28

Common: 3.2mi NW of Florala
Drainage: Pond Creek GPS: 31.027514, -86.376183
Land owner: Rayonier Forest Resources LP

County: Covington
PLSS (T-R-S): 1N-17E-29
Parcel No.: 2
Road Name: Union Church Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	28

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: CdB,CdC,DmB,MBA
Rt Approach Prism Fill: 3.0in
Lt Approach Prism Fill: 1.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Misplaced culverts, also evident in aerial photo.

Unnamed tributary

wa-0706-r-001

Sedimentation Risk Index
28

Common: 8.6mi SW of Florala
Drainage: Pine Log Creek GPS: 30.886233, -86.372805
Land owner: Carolyn Dixon- US, Unknown-DS

County: Walton
PLSS(T-R-S): 5N-21-31
Parcel No.: 3
Road Name: Allen Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Concrete	0
<i>Upstream Lt Outlet</i>	Concrete	0
<i>Upstream Rt Ditch</i>	Concrete	0
<i>Upstream Lt Ditch</i>	Concrete	0
<i>Downstream Rt Outlet</i>	Concrete	0
<i>Downstream Lt Outlet</i>	Concrete	0
<i>Downstream Rt Ditch</i>	Concrete	0
<i>Downstream Lt Ditch</i>	Concrete	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	28

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 2,10,11,14,13,15,25,26,29,35
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL,PARCELS WITH NO VALUES/WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS drop off

Unnamed tributary

wa-0706-r-002

Sedimentation Risk Index
30

Common: 7.3mi SW of Florala
Drainage: Pond Creek GPS: 30.904591, -86.372801
Land owner: William Dixon Jr-US, Michael Lowery-DS

County: Walton
PLSS(T-R-S): 5N-21-29/30
Parcel No.: 5; 2.001
Road Name: Frost Rd



Crossing Structure: DS

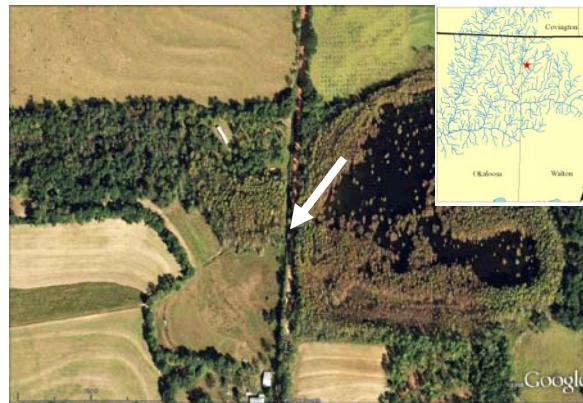


US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	30

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 10,15,22,25,26,39
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/ Cover	Yes	RESIDENTIAL/ HAY FIELDS, CYPRESS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Misplaced culvert.

Unnamed tributary

co-0731-r-004

Sedimentation Risk Index
34

Common: 4.5mi NW of Florala
Drainage: Horsehead Creek GPS: 31.030550, -86.399066
Land owner: James & Judy McGee -US, Diane Mock -DS

County: Covington
PLSS (T-R-S): 1N-16E-24/25
Parcel No.: 5; 3.01
Road Name: Union Church Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Culvert,2
Crossing Materials: Metal
Soil Types: BoC,CdB,DmB,FuB,LuB,MBA
Rt Approach Prism Fill: 1.00in
Lt Approach Prism Fill: 2.50in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: High sediment load DS.

Unnamed tributary

co-0731-r-011

Sedimentation Risk Index
34

Common: 1.8mi SW of Florala
Drainage: Pond Creek GPS: 30.997090, -86.356523
Land owner: EPC Holdings Rayonier Crenshaw LLC

County: Covington
PLSS (T-R-S): 6N-21W-29/28
Parcel No.: 1
Road Name: One Bridge Rd

State: Alabama



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: BoC,CdC,DmB,FuB,MBA
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Vegetated island between culverts DS

Unnamed tributary

co-0731-r-006

Sedimentation Risk Index
36

Common: 3.9mi NW of Florala
Drainage: Horsehead Creek GPS: 30.997012, -86.499121
Land owner: Rayonier Forest Resources LP

County: Covington
PLSS (T-R-S): 1N-17E-19/30
Parcel No.: 1
Road Name: Union Church Rd



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: BoC,CdB,CdC,DmB,FuB,MBA
Rt Approach Prism Fill: 2.75in
Lt Approach Prism Fill: 2.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ LOW INTENSITY DEVELOPED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Undersized culvert.

Unnamed tributary

ok-0528-r-002

Sedimentation Risk Index
36

Common: 3.8mi NE of Laurel Hill
Drainage: Horsehead Creek GPS: 30.992017, -86.405206
Land owner: Marvin & Edwin Vickers-DS, Dale Riley-US

County: Okaloosa
PLSS(T-R-S): 6N-22-26
Parcel No.: 1.001, 3
Road Name: Robinson Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36



Additional Site Features	
<i>Crossing Type and Quantity:</i>	Bridge, 1
<i>Crossing Materials:</i>	Wood
<i>Soil Types:</i>	13,36,37,39,40,41,42,43,49,52,55,56
<i>Rt Approach Prism Fill:</i>	0.5in
<i>Lt Approach Prism Fill:</i>	0.75in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A / WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: High sedimentation levels from outlets.

Juniper Creek

ok-0528-r-008

Sedimentation Risk Index
36

Common: 3.9mi S of Laurel Hill
Drainage: Pond Creek GPS: 30.909656, -86.463711
Land owner: T.R. Miller Mill Co-DS, Carolyn Tyner Trustee- US

County: Okaloosa
PLSS(T-R-S): 5N-22-29/20
Parcel No.: 1, 2,001
Road Name: E Plympton Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Culvert, 3
Crossing Materials: Metal
Soil Types: 12,16,36,37,39,40,42,43
Rt Approach Prism Fill: 1.5in
Lt Approach Prism Fill: 1.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB
Land Use/ Cover	Yes	N/A / WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Outlets mix of vegetation and rip rap--beaver dam skewing angle

Unnamed tributary

wa-0617-r-005

Sedimentation Risk Index
36

Common: 4.3mi E of Laurel Hill
Drainage: Pond Creek GPS: 30.953947, -86.388783
Land owner: Timothy & Nelda Fleming-DS, Rose in Bloom Inc-US

County: Walton State: Florida
PLSS(T-R-S): 5N-21-06; 5N-22-01
Parcel No.: 15; 10
Road Name: County Line Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Synthetic	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	High Risk	36
Additional Site Features		
<i>Crossing Type and Quantity:</i>	Bridge, 1	
<i>Crossing Materials:</i>	Wood	
<i>Soil Types:</i>	2,3,10,11,15,20	
<i>Rt Approach Prism Fill:</i>	2.5in	
<i>Lt Approach Prism Fill:</i>	3.0in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None.

Fleming Creek

wa-0625-r-003

Sedimentation Risk Index
36

Common: 3.7 SW of Florala
Drainage: Pond Creek GPS: 30.976764, -86.380619
Land owner: John R Cox-US, Newton Busbee-DS

County: Walton
PLSS(T-R-S): 6N-21-31
Parcel No.: 4; 2
Road Name: Varnum Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 2,3,10,15,22,25,26,31,32,60
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 1.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/ Cover	Yes	VACANT RESIDENTIAL, AGRICULTURAL/ MIXED WETLAND HARDWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Need to stabilize prism fill on approaches.

Unnamed tributary

wa-0625-r-006

Sedimentation Risk Index
28

Common: 2.8mi SW of Florala
Drainage: Fleming Creek GPS: 30.994142, -86.373522
Land owner: James & Barbara Craig- DS, S.G. & Betty Hargrove Sr.-
US

County: Walton
PLSS(T-R-S): 6N-21-20/29
Parcel No.: 1; 2
Road Name: Franklin Rd

State: Florida



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y ³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	28

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 2,3,10,11,13,14,15
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/ Cover	Yes	AGRICULTURAL/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Draining agricultural pond US

Unnamed tributary

wa-1005-r-005

Sedimentation Risk Index
36

Common: 6.9mi N of Mossy Head
Drainage: Long Creek GPS: 30.836530868, -86.351276376
Land owner: Dreamland Investments & LLC-US, Parke Lexington II of Gainesville LTD- DS

County: Walton
PLSS (T-R-S): 4N-21-16-38000
Parcel No.: 2.0010; 1
Road Name: Long Rd

State: Florida



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
Outlet Total	Partially Improved Outlet System	3
Ditches Total	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 2,15,17,31,32,33
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL,PARCELS / MIXED SCRUB-SHRUB WETLAND
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: 2nd culvert is concrete and placed well above the water level.

Juniper Creek

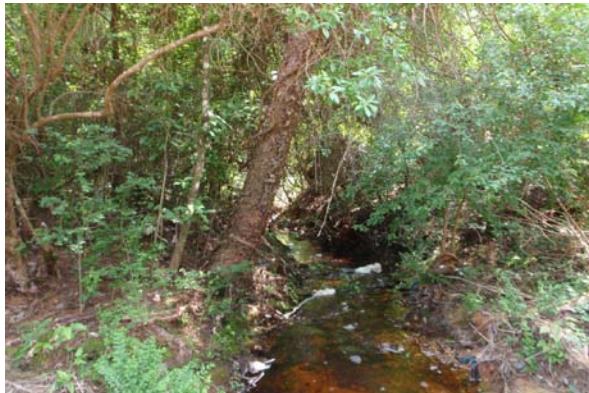
ok-0528-r-006

Sedimentation Risk Index
38

Common: 2.7mi SW of Laurel Hill
Drainage: Pond Creek GPS: 30.927733, -86.468278
Land owner: Mary & Michael Joseph- US, Annette & Thomas Malaszweski-DS

County: Okaloosa
PLSS(T-R-S): 5N-22-17
Parcel No.: 5, 3.001
Road Name: Millside Rd

State: Florida



Crossing Structure: DS

DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	38



Additional Site Features

Crossing Type and Quantity: Culvert,2
Crossing Materials: Metal
Soil Types: 37,38,39,40,43
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB
Land Use/ Cover	Yes	AGRICULTURAL/ CONIFEROUS PLANTATIONS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Newly reconstructed crossing. DS drop off.

Unnamed tributary

wa-0626-r-005

Sedimentation Risk Index
34

Common: 6.6mi SE of Florala
Drainage: Long Creek GPS: 30.911070, -86.306770
Land owner: Ricky & Jacqueline Adams- US, Joe & Cheryl Gillam-DS
 East, Thomas & Doris Bell- DS West

County: Walton
PLSS(T-R-S): 5N-21-23/26
Parcel No.: 4.001; 1.001; 1
Road Name: Campground Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 13, 15, 22, 40, 31, 32, 60, 69
Rt Approach Prism Fill: 0.35in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ UPLAND CONIFEROUS FORESTS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Second culvert 50 ft west of first, blocked

Unnamed tributary		ok-0617-r-007		Sedimentation Risk Index 40																																																																																																														
<u>Common:</u> 4.7mi SE of Laurel Hill <u>Drainage:</u> Pond Creek <u>Land owner:</u> Sonya Webb	<u>GPS:</u> 30.922968, -86.397368	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 5N-22-24 <u>Parcel No.:</u> 2.005 <u>Road Name:</u> County Line Rd	<u>State:</u> Florida																																																																																																															
																																																																																																																		
Crossing Structure: US		US																																																																																																																
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 2 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 36,37,41,43,46 <u>Rt Approach Prism Fill:</u> 1.0in <u>Lt Approach Prism Fill:</u> 0.5in		<table border="1"> <thead> <tr> <th>Feature</th><th>Within Range</th><th>Descriptive Field</th></tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>Yes</td><td>SPECKLED CHUB, IRONCOLOR SHINER</td></tr> <tr><td>Land Use/ Cover</td><td>Yes</td><td>AGRICULTURAL/ WETLAND FORESTED MIX</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>			Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER	Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																																																																									
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Notes: None

Unnamed tributary		wa-0617-r-003	Sedimentation Risk Index 38																																																																		
<u>Common:</u> 5.4mi SW of Florala	<u>Drainage:</u> Pond Creek	<u>GPS:</u> 30.936847, -86.372483	<u>County:</u> Walton																																																																		
<u>Land owner:</u> Jody Jones-US, Edward & Magdaline Reed- DS		<u>PLSS(T-R-S):</u> 5N-21-17/18	<u>State:</u> Florida																																																																		
		<u>Parcel No.:</u> 1.0021; 1	<u>Road Name:</u> Frost Ln.																																																																		
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Additional Site Features <p> <u>Crossing Type and Quantity:</u> Bridge, 1 <u>Crossing Materials:</u> Wood <u>Soil Types:</u> 15,31,32 <u>Rt Approach Prism Fill:</u> 0.05in <u>Lt Approach Prism Fill:</u> 0.05in </p>		<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>Yes</td><td>SPECKLED CHUB, IRONCOLOR SHINER</td></tr> <tr><td>Land Use/ Cover</td><td>Yes</td><td>PARCELS WITH NO VALUES/ WETLAND FORESTED MIX</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>		Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER	Land Use/ Cover	Yes	PARCELS WITH NO VALUES/ WETLAND FORESTED MIX	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																													
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Notes: Fencing across DS

Long Creek

wa-0626-r-004

Sedimentation Risk Index
40

Common: 6.8mi SE of Florala
Drainage: Pond Creek GPS: 30.911463, -86.300719
Land owner: Wayne & Joanna Campbell- US, Sharron Adrian- DS

County: Walton
PLSS(T-R-S): 5N-21-24/25
Parcel No.: 2; 2.001
Road Name: Campground Rd

State: Florida



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	40

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Reinforced Concrete
Soil Types: 13,15,22,40,31,32,60,69
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.75in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ BAY SWAMPS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Water not flowing.

Unnamed tributary	co-0731-r-005	<i>Sedimentation Risk Index</i> 42																																																																																						
<u>Common:</u> 4.1mi NW of Florala <u>Drainage:</u> Horsehead Creek <u>GPS:</u> 31.031038, -86.391598 <u>Land owner:</u> Carol Coon -US, Rayonier Forest Resources LP-DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-17E-19/30 <u>Parcel No.:</u> 5.02; 1 <u>Road Name:</u> Union Church Rd	<u>State:</u> Alabama																																																																																						
																																																																																								
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> BoC,CdB,CdC,DmB,FuB,MBA <u>Rt Approach Prism Fill:</u> 2.0in <u>Lt Approach Prism Fill:</u> 2.5in																																																																																								

Notes: High sediment load from DS outlet.

Unnamed tributary	ok-0617-r-006	Sedimentation Risk Index 42																																																																		
<u>Common:</u> 5mi SE of Laurel Hill <u>Drainage:</u> Pond Creek <u>GPS:</u> 30.923731, -86.391997 <u>Land owner:</u> Ema Massoni- US/Rayonier Forest Resource LP-DS	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 5N-22-13/24 <u>Parcel No.:</u> 7; 1 <u>Road Name:</u> County Line Rd	<u>State:</u> Florida																																																																		
																																																																				
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 3 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 4, 34, 36, 43, 51 <u>Rt Approach Prism Fill:</u> 2.0in <u>Lt Approach Prism Fill:</u> 1.5in	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H.	Within Range No Yes Yes Yes No No	Descriptive Field N/A 1-3 FOCAL SPECIES IN UPLAND AREAS SPECKLED CHUB, IRONCOLOR SHINER AGRICULTURAL/ WETLAND FORESTED MIX N/A N/A																																																																	

Notes: Adjacent to farm land.

East Branch

wa-0626-r-001

Sedimentation Risk Index
46

Common: 4.8mi SE of Florala
Drainage: Pine Log Creek GPS: 30.937011, -86.305311
Land owner: Joseph Mary Jo Smith et al- US, Big Sky Inc-DS

County: Walton State: Florida
PLSS(T-R-S): 5N-21-13/14
Parcel No.: 2; 1
Road Name: Bear Bay Road



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
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<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	42

Additional Site Features

Crossing Type and Quantity: Culvert, 3
Crossing Materials: Metal
Soil Types: 13,14,15,20,31,35,69
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	PARCELS WITH NO VALUES/ WETLAND FORESTED MIX, CONIFEROUS PLANTATIONS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary	wa-0626-r-003	<i>Sedimentation Risk Index</i> 42																																																																		
<u>Common:</u> 6.8mi SE of Florala <u>Drainage:</u> Little Creek <u>GPS:</u> 30.911756, -86.293225 <u>Land owner:</u> John Tucker Jr- US, Mary Prater McLean-DS	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 5N-21-24/25 <u>Parcel No.:</u> 8; 1 <u>Road Name:</u> Campground Rd	<u>State:</u> Florida																																																																		
																																																																				
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<u>Crossing Type and Quantity:</u> Culvert, 2 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 13,15,22,40,31,32,60 <u>Rt Approach Prism Fill:</u> 0.5in <u>Lt Approach Prism Fill:</u> 0.5in	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H.	Within Range No No No Yes No No	Descriptive Field N/A N/A N/A AGRICULTURAL,PARCELS WITH NO VALUES/MIXED WETLAND HARDWOODS N/A N/A																																																																	

Notes: None

Unnamed tributary	wa-0706-r-004	Sedimentation Risk Index 42																																																																																							
<u>Common:</u> 5.6mi SE of Laurel Hill <u>Drainage:</u> Pond Creek <u>GPS:</u> 30.933325, -86.372564 <u>Land owner:</u> Jody Jones-US, Jerry & Kimberly Mulcahy-DS	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 5N-21-17/18 <u>Parcel No.:</u> 1.0021, 3.002 <u>Road Name:</u> Frost Ln	<u>State:</u> Florida																																																																																							
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Notes: DS outfall drop

Unnamed tributary	co-0731-r-007	<i>Sedimentation Risk Index</i> 44																																																																	
<u>Common:</u> 3.6mi NW of Florala <u>Drainage:</u> Horsehead Creek <u>GPS:</u> 30.993519, -86.484894 <u>Land owner:</u> Rayonier Forest Resources LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-17E-30 <u>Parcel No.:</u> 1 <u>Road Name:</u> Union Church Rd	<u>State:</u> Alabama																																																																	
																																																																			
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Additional Site Features <p> <u>Crossing Type and Quantity:</u> Bridge, 1 <u>Crossing Materials:</u> Reinforced Concrete <u>Soil Types:</u> CdB,CdC,DmB,MBA <u>Rt Approach Prism Fill:</u> 2.0in <u>Lt Approach Prism Fill:</u> 3.0in </p>	Feature	Within Range																																																																	
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Notes: None.

Unnamed tributary

ok-0528-r-001

Sedimentation Risk Index
44

Common: 2.8mi NE of Laurel Hill
Drainage: Horsehead Creek GPS: 30.987811, -86.419311
Land owner: S.A. & S.S. Johnson Living Trust

County: Okaloosa
PLSS(T-R-S): 6N-22-26
Parcel No.: 7
Road Name: Ludlam Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Improved Drainage System	5
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 39,40,41,42,44,43,46,49
Rt Approach Prism Fill: 1.5in
Lt Approach Prism Fill: 2.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ FRESHWATER MARSHES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Horsehead Creek

ok-0528-r-004

Sedimentation Risk Index
44

Common: 2.9mi SE of Laurel Hill
Drainage: Pond Creek
Land owner: Robert Babcock

GPS: 30.927819, -86.436811

County: Okaloosa
PLSS(T-R-S): 5N-22-15
Parcel No.: 9
Road Name: Millside Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Concrete	0
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Concrete	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 4,13,16,23,36,40,41,45,44,45,46,49,50
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Appears to be sediment loading from US? Source unknown

Green Branch

ok-0528-r-005

Sedimentation Risk Index
44

Common: 1.5mi S of Laurel Hill
Drainage: Horsehead Creek GPS: 30.944075, -86.455881
Land owner: Millicent Noel- US, Helen & Shelley Reeves-DS

County: Okaloosa
PLSS(T-R-S): 5N-22-08/9
Parcel No.: 3, 7
Road Name: Buck Tyner Rd



Crossing Structure: US



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Culvert,2
Crossing Materials: Metal
Soil Types: 23,35,36,43,44,47,49,52
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A / WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Culverts placed at a bad angle to flow.

Hogpen Branch

ok-0528-r-007

Sedimentation Risk Index
44

Common: 3.9mi S of Laurel Hill
Drainage: Juniper Creek GPS: 30.909953, -86.471256
Land owner: Mack Tyner Jr Trustee- US, T.R. Miller Mill Co- DS

County: Okaloosa
PLSS(T-R-S): 5N-22-20/22
Parcel No.: 5,1
Road Name: E. Plympton Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Synthetic	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 12,16,36,37,39,40,42,43
Rt Approach Prism Fill: 1.5in
Lt Approach Prism Fill: 1.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB
Land Use/ Cover	Yes	AGRICULTURAL/ CYPRESS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Pond Creek

ok-0710-r-003

Sedimentation Risk Index
44

Common: 9.9mi NE of Crestview
Drainage: Shoal River
Land owner: Odessa Jackson

GPS: 30.834014, -86.428345

County: Okaloosa
PLSS(T-R-S): 4N-22-22
Parcel No.: 1
Road Name: Lake Ella Rd

State: Florida



Crossing Structure- Rt Approach



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 34,36,43,50
Rt Approach Prism Fill: 2.0in
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND HARDWOOD FORESTS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Bridge blew out in March 2009 rainstorm; has not been repaired. 0.1 mi DS from Juniper Creek

Spring Branch

ok-0710-r-004

Sedimentation Risk Index
44

Common: 10.4mi NE of Crestview
Drainage: Pond Creek
Land owner: Schweizer Family Inc

GPS: 30.841094, -86.423568

County: Okaloosa
PLSS(T-R-S): 4N-22-22
Parcel No.: 9
Road Name: Lake Ella Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/ Cover	Yes	VACANT RESIDENTIAL/HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Additional Site Features

Crossing Type and Quantity: Culvert,1
Crossing Materials: Metal
Soil Types: 12,36,43,49,50
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 0.25in

Notes: Lots of sediment loading. Outfall drop blocking fish passage

Unnamed tributary	wa-0625-r-001	<i>Sedimentation Risk Index</i> 44																																																																																							
<u>Common:</u> 2.4mi SW of Florala <u>Drainage:</u> Pond Creek <u>GPS:</u> 30.983133, -86.359481 <u>Land owner:</u> Thomas Kilpatrick-US, Walton Properties LLP-DS	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 6N-21-29/32 <u>Parcel No.:</u> 5; 4.003 <u>Road Name:</u> Varnum Rd	<u>State:</u> Florida																																																																																							
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Notes: Fencing across DS channel causing sediment buildup

Pond Creek

wa-0625-r-005a

Sedimentation Risk Index
44

Common: 1.7mi SW of Florala
Drainage: Shoal River GPS: 30.987175, -86.348881
Land owner: Neal Hart- US, Thalon & Peggy Hobbs-DS

County: Walton
PLSS(T-R-S): 6N-21-28
Parcel No.: 18; 18.002
Road Name: Double Bridge Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
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<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 15,31,32
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.05in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/Cover	Yes	VACANT RESIDENTIAL/WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Two bridges crossing this same system.

Little Creek

wa-0626-r-002

Sedimentation Risk Index
44

Common: 6.8mi SE of Florala
Drainage: Long Creek GPS: 30.911752, -86.287466
Land owner: Ronald & Joan Earley-US, Mary Prater McLean-DS

County: Walton
PLSS(T-R-S): 5N-20-19/30
Parcel No.: 6.001, 5
Road Name: Campground Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 6,29,40,60
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.5in



Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ HAY FIELDS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Dry at time of survey. 2 culverts of different diameter

Unnamed tributary	co-0731-r-009	Sedimentation Risk Index 46																																																																		
<u>Common:</u> 4.1mi NW of Florala <u>Drainage:</u> Horsehead Creek <u>GPS:</u> 31.039039, -86.382572 <u>Land owner:</u> Rayonier Forest Resources LP	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-17E-19 <u>Parcel No.:</u> 1 <u>Road Name:</u> Chance Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> CdC,DmB,MBA,OrB <u>Rt Approach Prism Fill:</u> 0.25in <u>Lt Approach Prism Fill:</u> 0.2in	Feature Within Range Descriptive Field 303(d) No N/A Wetland Species No N/A Rare and Imperiled No N/A Land Use/ Cover Yes N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER Candidate Mussels No N/A Sturgeon C.H. No N/A																																																																			

Notes: Rip rap in stream bed.

Horsehead Creek

co-0731-r-012

Sedimentation Risk Index
46

Common: 4.7mi SW of Florala
Drainage: Pond Creek GPS: 30.995696, -86.406183
Land owner: Rayonier Forest Resources LP

County: Covington State: Alabama
PLSS (T-R-S): 6N-22W-26
Parcel No.: 1
Road Name: Davis Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Synthetic	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Low Risk	46

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: BoC,DmB,EuA,FuB,MBA,TrD
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Common: <u>Drainage:</u> <u>Land owner:</u>	wa-0625-r-004	Sedimentation Risk Index 46																																																																		
4.2mi NE of Laurel Hill Flemming Creek GPS: 30.973206, -86.388775 Ellen Gordon-US, Clarke Williams-DS	County: Walton PLSS (T-R-S): 6N-22-36; 6N-21-31 Parcel No.: 4; 10 Road Name: County Line Rd	<u>State:</u> Florida																																																																		
																																																																				
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<u>Crossing Type and Quantity:</u> Culvert, 3	303(d)	No																																																																		
<u>Crossing Materials:</u> Metal	Wetland Species	No																																																																		
<u>Soil Types:</u> 3,11,15,31,32	Rare and Imperiled	Yes																																																																		
<u>Rt Approach Prism Fill:</u> 0.75in	Land Use/Cover	Yes																																																																		
<u>Lt Approach Prism Fill:</u> 1.0in	Candidate Mussels	No																																																																		
	Sturgeon C.H.	No																																																																		
Notes: None																																																																				

Unnamed tributary	wa-0626-r-006	Sedimentation Risk Index 46																																																																																							
<u>Common:</u> 5.1mi SE of Florala <u>Drainage:</u> Long Creek <u>GPS:</u> 30.941142, -86.284550 <u>Land owner:</u> Carla Bent-US, Adrian Geoghan-DS	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 5N-20-07/18 <u>Parcel No.:</u> 2.5, 4 <u>Road Name:</u> Jackson Rd	<u>State:</u> Florida																																																																																							
																																																																																									
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<u>Soil Types:</u>	13,20,60																																																																																								
<u>Rt Approach Prism Fill:</u>	0.2in																																																																																								
<u>Lt Approach Prism Fill:</u>	0.2in																																																																																								

Notes: Lt approach partially paved. Sanded over.

Big Branch

wa-0722-r-001

Sedimentation Risk Index
46

Common: 6.3mi NE of Mossy Head
Drainage: Little Creek
Land owner: Unknown

GPS: 30.830729, -86.297392

County: Walton
PLSS(T-R-S): Unknown
Parcel No.: Unknown
Road Name: Foxhill Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
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<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	46

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 2,3,13,15,17,18,31,32
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.3in



Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL,PARCELS WITH NO VALUES/WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary	ok-0528-r-003	Sedimentation Risk Index 48																																																																		
<u>Common:</u> 3.4mi NE of Laurel Hill <u>Drainage:</u> Horsehead Creek <u>GPS:</u> 30.982058, -86.405300 <u>Land owner:</u> Helen & Robert Pagnini- US, Catherine & Cory Harned-US	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 6N-22-25 <u>Parcel No.:</u> 1.002, 5 <u>Road Name:</u> Robinson Rd	<u>State:</u> Florida																																																																		
																																																																				
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Additional Site Features <u>Crossing Type and Quantity:</u> Bridge, 1 <u>Crossing Materials:</u> Wood <u>Soil Types:</u> 13,36,37,39,40,41,42,43,49,52,55,56 <u>Rt Approach Prism Fill:</u> 0.25in <u>Lt Approach Prism Fill:</u> 0.5in	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H.	Within Range No No No Yes No No	Descriptive Field N/A N/A N/A N/A / FRESHWATER MARSHES N/A N/A																																																																	

Notes: Outfall drop over beaver dam.

Pond Creek	wa-0625-r-005b	Sedimentation Risk Index 48																																																																																							
<u>Common:</u> 1.7mi SW of Florala <u>Drainage:</u> Shoal River <u>GPS:</u> 30.987514, -86.349492 <u>Land owner:</u> Neat Hart-US, Thalon & Peggy Hobbs- DS	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 6N-21-28 <u>Parcel No.:</u> 18; 18.002 <u>Road Name:</u> Double Bridge Rd	<u>State:</u> Florida																																																																																							
																																																																																									
Crossing Structure: DS	DS																																																																																								
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Notes: Public access DS?

Pond Creek

ok-0710-r-002

Sedimentation Risk Index
50

Common: 6.1mi NW of Mossy Head
Drainage: Shoal River
Land owner: Rick & Susan Goff

GPS: 30.793986, -86.399002

County: Okaloosa
PLSS(T-R-S): 4N-22-36
Parcel No.: 3.001
Road Name: Pond Creek Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
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<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	50

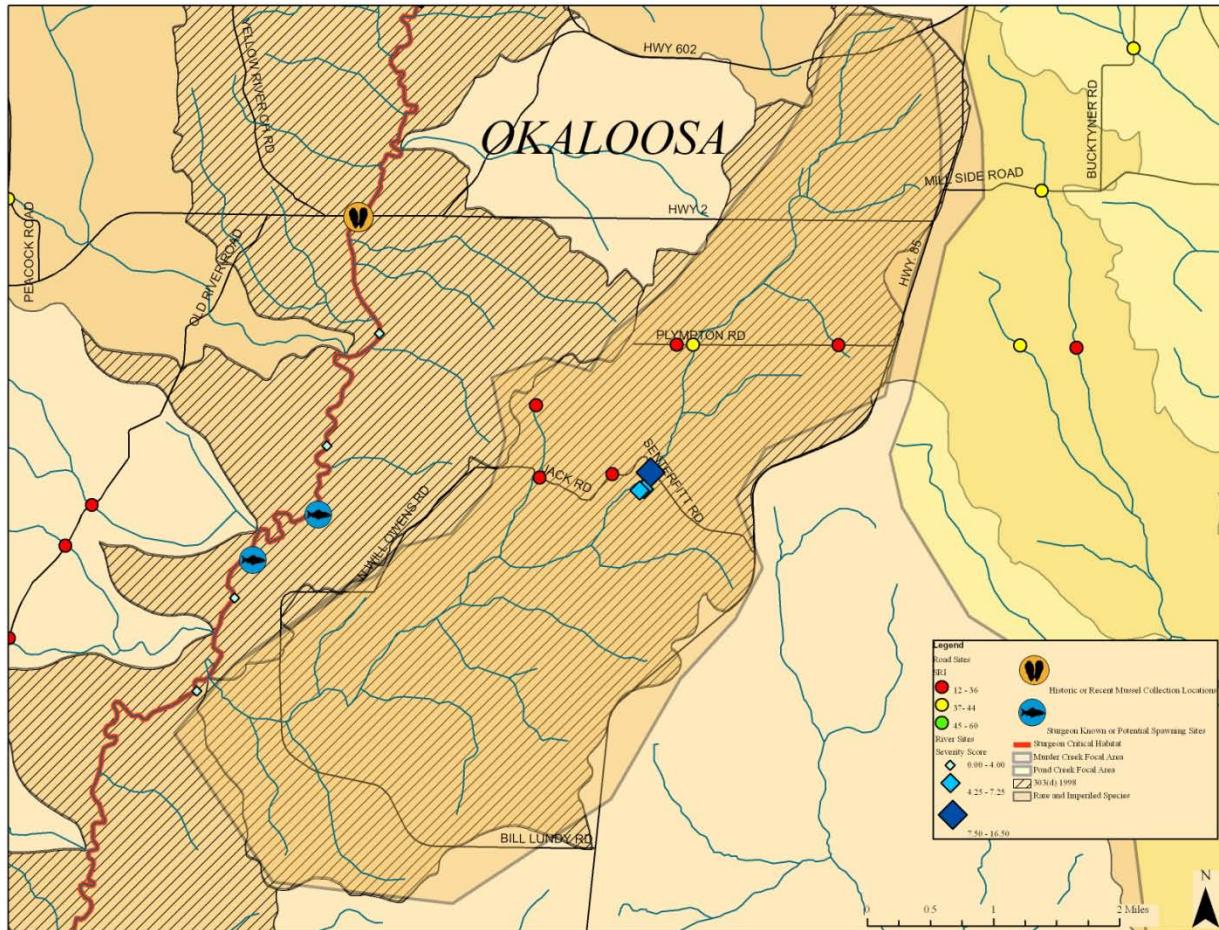
Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 23, 43, 50, 51
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.15in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND HARDWOOD FORESTS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Small foot path DS Lt floodplain.

Appendix G. Murder Creek Focal Area. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



Murder Creek	ok-1105-001	Severity Score 12.5																																																																																	
<u>Common:</u> 9.7mi NW of Crestview, .02mi DS of Sentifitt Rd <u>Drainage:</u> Yellow River <u>GPS:</u> 30.895347188, -86.520805744 <u>Land owner:</u> Brandon Watson- DS, Richard Moulton- US	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 5N-23W-35/26 <u>Parcel No.:</u> 1.1004; 8.00	<u>State:</u> Florida																																																																																	
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Notes: Numerous amounts of rip rap in stream is causing a partial fish passage barrier, as well as a fence that the US property owner has installed upstream from the bridge. Downstream is highly entrenched and its banks are mass wasting. Banks are primarily composed of clay. View other appendices on Murder Creek for more downstream details.

Murder Creek	ok-1105-002	Severity Score 6.5																																																																		
<u>Common:</u> 6mi SW of Laurel Hill, 0.16mi DS of Senterfitt Rd <u>Drainage:</u> Yellow River <u>GPS:</u> 30.893549221, -86.521587955 <u>Land owner:</u> Brandon Watson	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 5N-23W-35 <u>Parcel No.:</u> 1.1004	<u>State:</u> Florida																																																																		
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River Threat Index:		6.5																																																																		
Feature	Within Range	Descriptive Field																																																																		
303(d)	Yes	COLIFORMS, DISSOLVED OXYGEN																																																																		
Wetland Species	No	N/A																																																																		
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER																																																																		
Land Use/ Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS																																																																		
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Sturgeon C.H.	No	N/A																																																																		

Notes: Shallow channel, high sediment loads. Affected by silviculture? Murder creek contains the highest banks in the entire watershed.

Murder Creek	ok-1105-003	Severity Score 4.75																																																																		
<u>Common:</u> 6.2mi SW of Laurel Hill, 0.2 miles DS from Senterfitt Rd. <u>Drainage:</u> Yellow River <u>GPS:</u> 30.893281952, -86.522234328 <u>Land owner:</u> Lisa Jenkins	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 5N-23W-35 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																																		
																																																																				
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Notes: Characteristic of the banks along the reach 0.5mi below Senterfitt Rd crossing. High sediment loads within stream.

Unnamed tributary

ok-0429-r-014

Sedimentation Risk Index
22

Common: 5.1mi SW of Laurel Hill
Drainage: Murder Creek
Land owner: Dean & Deborah Clary

GPS: 30.910200, -86.517086

County: Okaloosa
PLSS(T-R-S): 5N-23-23
Parcel No.: 5.001
Road Name: W Plympton Road



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	22



Additional Site Features		
<u>Crossing Type and Quantity:</u>	Culvert, 1	
<u>Crossing Materials:</u>	Metal	
<u>Soil Types:</u>	3,23,25,34,36,37,39,40,43	
<u>Rt Approach Prism Fill:</u>	1.0in	
<u>Lt Approach Prism Fill:</u>	1.0in	

Feature	Within Range	Descriptive Field
303(d)	Yes	DISSOLVED OXYGEN, COLIFORMS
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/ Cover	Yes	N/A / WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary

ok-0429-r-012

Sedimentation Risk Index
26

Common: 6.2mi SW of Laurel Hill
Drainage: Murder Creek GPS: 30.894997, -86.535436
Land owner: Ralph & Carolyn Lunsford

County: Okaloosa
PLSS(T-R-S): 5N-23-34
Parcel No.: 2.002
Road Name: Jack Rd

State: Florida



Crossing Structure: From Rt Approach

US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
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<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	26



Additional Site Features

Crossing Type and Quantity: Culvert?
Crossing Materials: Clay
Soil Types: 12,23,36,39,40,42,43
Rt Approach Prism Fill: 2.0in
Lt Approach Prism Fill: 1.5in

Feature	Within Range	Descriptive Field
303(d)	Yes	DISSOLVED OXYGEN, COLIFORMS
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/ Cover	Yes	AGRICULTURAL/ FIELD CROPS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Unknown crossing type- Flooded when accessed 2 different days.

Unnamed tributary

ok-0429-r-010

Sedimentation Risk Index
26

Common: 6.2mi SW of Laurel Hill
Drainage: Murder Creek GPS: 30.895197686, -86.525778507
Land owner: James & Joyce Arnette-US, Rose in Bloom Inc- DS East,
Swampland Inc-DS West

County: Okaloosa
PLSS(T-R-S): 5N-23-34
Parcel No.: 1.002, 1.004
Road Name: Jack Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
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<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	26

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 23,39,41,43,52,56
Rt Approach Prism Fill: 1.5in
Lt Approach Prism Fill: 0.5in



Feature	Within Range	Descriptive Field
303(d)	Yes	DISSOLVED OXYGEN, COLIFORMS
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/ Cover	Yes	RESIDENTIAL/ MIXED SCRUB-SHRUB WETLAND
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: 12ft of each culvert exposed due to road erosion. US openings covered by fencing.

Coon Branch

ok-0429-r-016

Sedimentation Risk Index
30

Common: 4.3mi SW of Laurel Hill
Drainage: Murder Creek GPS: 30.910094, -86.495503
Land owner: Sara & Kay Eoff-US, Elizabeth Ann Salter-DS

County: Okaloosa
PLSS(T-R-S): 5N-23-24
Parcel No.: 6, 4
Road Name: W Plympton Rd



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	30

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: PVC; Reinforced Concrete
Soil Types: 12,13,23,36,37,41,42,43,49,56
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 1.5in



Feature	Within Range	Descriptive Field
303(d)	Yes	DISSOLVED OXYGEN, COLIFORMS
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Culvert w/outfall draining pond. High levels of sedimentation DS.

Unnamed tributary

ok-0429-r-009

Sedimentation Risk Index
28

Common: 6.2mi SW of Laurel Hill
Drainage: Murder Creek GPS: 30.903134133, -86.535976020
Land owner: Jesse Madden

County: Okaloosa
PLSS(T-R-S): 5N-23-27
Parcel No.: 5.001
Road Name: Bill Lundy Rd/85a

State: Florida



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	PONDERED	1
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
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<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	28

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 36,38,39,43,46
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	Yes	DISSOLVED OXYGEN, COLIFORMS
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/ Cover	Yes	N/A / WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Undersized culvert draining agricultural land. Loose sediment over culvert

Murder Creek

ok-0429-r-015

Sedimentation Risk Index
40

Common: 5mi SW of Laurel Hill
Drainage: Yellow River
Land owner: Dean & Deborah Clary

GPS: 30.910203, -86.514943

County: Okaloosa
PLSS(T-R-S): 5N-23-23
Parcel No.: 5.001
Road Name: W Plympton Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
Outlet Total	Partially Improved Outlet System	3
Ditches Total	Unimproved Drainage System	1
SRI Total	Medium Risk	40

Additional Site Features

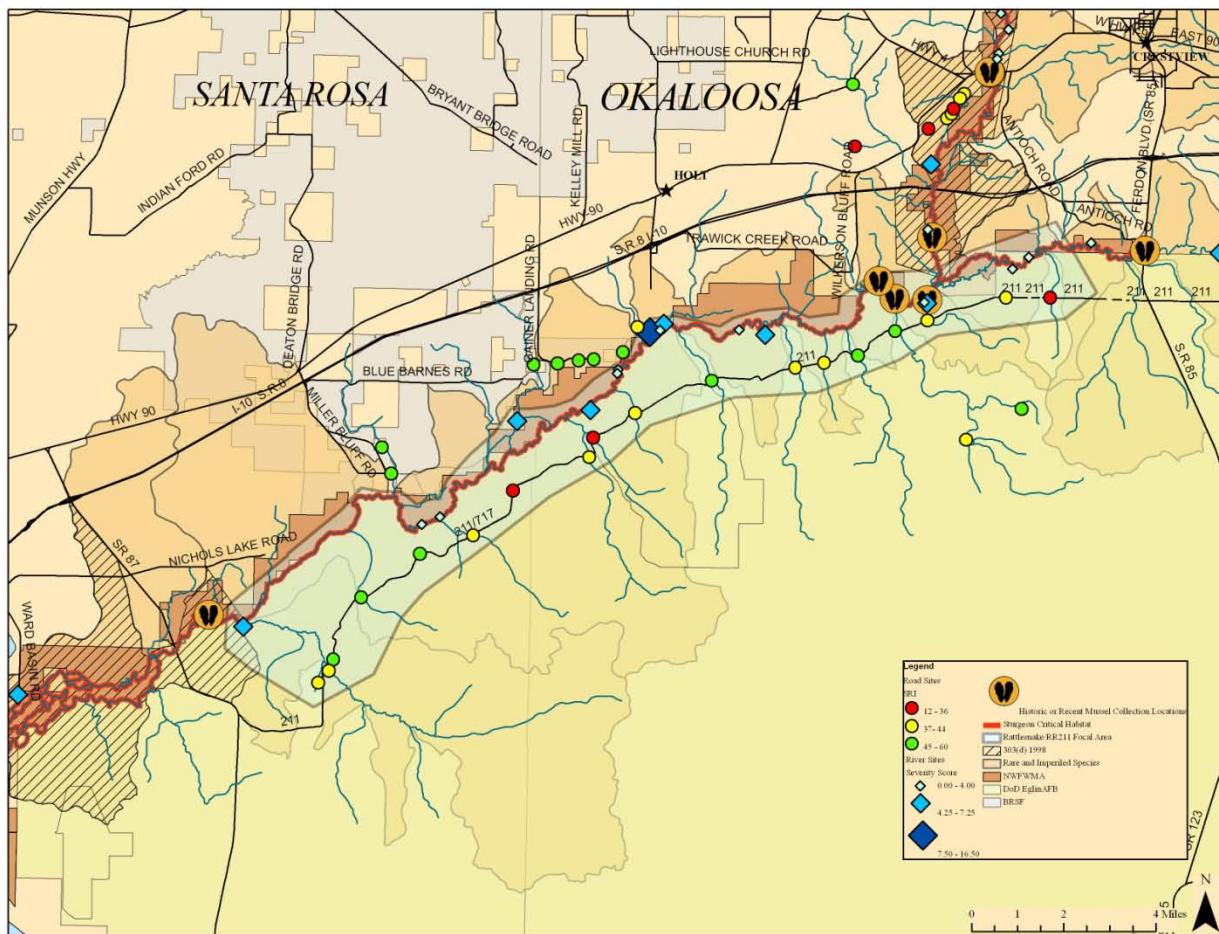
Crossing Type and Quantity: Bridge,1
Crossing Materials: Wood
Soil Types: 13,23,25,34,36,37,39,40,43
Rt Approach Prism Fill: 1.5in
Lt Approach Prism Fill: 1.0in

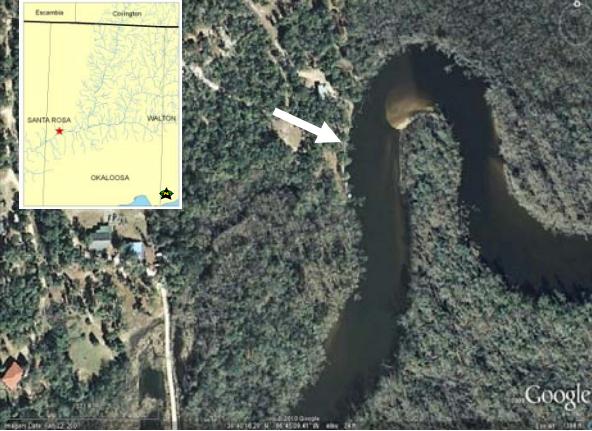


Feature	Within Range	Descriptive Field
303(d)	Yes	DISSOLVED OXYGEN, COLIFORMS
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Appendix H. Rattlesnake Road Focal Area. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



Yellow River	ok-0225-005	Severity Score 8																																																																										
<u>Common:</u> 12.4mi SW of Crestview, .42 mi DS of Tarwick Creek <u>Drainage:</u> Yellow River <u>GPS:</u> 30.672143, -86.751921 <u>Land owner:</u> RB: Roland & Sara Henson/ LB: USA	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 16-2N-2S <u>Parcel No.:</u> RB: 4.034a / LB: 2	<u>State:</u> Florida																																																																										
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Notes: Pipe discharge coming from a small PVC pipe on right bank boat launch Approx. 100 yards of brick and concrete shoring structure present. "Easy Street" leads to house on right bank.

Yellow River	ok-0225-002	Severity Score 6.75																																																																		
<u>Common:</u> 12mi SW of Crestview, .05mi DS of Tarwick Creek <u>Drainage:</u> Yellow River <u>GPS:</u> 30.674048, -86.746883 <u>Land owner:</u> Rivers Edge Campground	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 2N-25W-16 <u>Parcel No.:</u> 6.003E	<u>State:</u> Florida																																																																		
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Notes: River's edge camp ground. Concrete boat launch and wooden sea-wall retaining RB. Old Log Lake Bridge site (historic, Google earth). Pipe discharge to DS.

Pitts River		sr-0305-001	Severity Score 6.25
<u>Common:</u> 14mi E of Milton	<u>Drainage:</u> Yellow River	<u>GPS:</u> 30.6435, -86.800483	<u>County:</u> Santa Rosa <u>PLSS(T-R-S):</u> 2N-26W-25 <u>Parcel No.:</u> 2
<u>Land owner:</u> H. A. Morris			<u>State:</u> Florida
			
RB			
Risk Factor	Ranking	Score	Feature
<i>Channel Stability</i>	Fair	1	303(d)
<i>Channel Alteration</i>	None	0	Wetland Species
<i>Bank Erosion</i>	Active	1	Rare and Imperiled
<i>BEHI</i>	Moderate	0.5	GOLDSTRIPE DARTER, SPECKLED CHUB, IRONCOLOR SHINER, GULF STURGEON, ALABAMA SHAD, ALLIGATOR GAR, SPECKLED DARTER, SPOTTED BULLHEAD
<i>Local NPSP</i>	Obvious Sources	1.5	
<i>Shoring Structures</i>	Present	1.5	Land Use/ Cover
<i>Pipe Discharge</i>	Not Present	0	N/A STREAMS AND WATERWAYS
<i>Water Odors</i>	Not Present	0	
<i>Fish Passage Barrier</i>	Not Present	0	
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	
<i>LB: Riparian Buffer</i>	100+ft	0	
<i>RB: Floodplain Access</i>	Full	0	
<i>LB: Floodplain Access</i>	Full	0	
River Threat Index:		6.25	Additional Site Features
<i>Stream Channel Woody Material:</i>		Moderate	
<i>Impoundments:</i>		None	
<i>Substrate Composition:</i>		Medium Sand	
<i>Bank Material:</i>		Sand and Roots	

Notes: Concrete shoring structure and two boat launches present. Road leading down is Garner Landing Rd

Yellow River	ok-0225-001	Severity Score 5.75																																												
<u>Common:</u> 14.3mi E of Milton <u>Drainage:</u> Yellow River <u>GPS:</u> 30.646932, -86.773719 <u>Land owner:</u> RB: NFWFMD / LB: USA	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 2N-25W-29 <u>Parcel No.:</u> RB: 2/?AC / LB: 1/?AC	<u>State:</u> Florida																																												
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Rare and Imperiled	Yes	ALABAMA SHAD,ALLIGATOR GAR BLUENOSE SHINER,GULF STURGEON SPECKLED CHUB,IRONCOLOR SHINER SPOTTED BULLHEAD,SPECKLED DARTER																																												
Land Use/ Cover	Yes	N/A/ STREAMS AND WATERWAYS																																												
Candidate Mussels	No	N/A																																												
Sturgeon C.H.	Yes	N/A																																												
Additional Site Features <i>Stream Channel Woody Material:</i> Infrequent <i>Impoundments:</i> None <i>Substrate Composition:</i> Medium Sand and Clay <i>Bank Material:</i> Sand																																														

Notes: Bleachers and garbage barrels present onshore. An unpaved Eglin AFB road leads to the site.

Yellow River	ok-0319-001	Severity Score 5.25																																																																		
<u>Common:</u> 7mi SW of Crestview, Little Gin Hole Landing on EAFB <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.680277, -86.650922 <u>Land owner:</u> USA- Eglin AFB	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 2N-16W-16 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																																		
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Sturgeon C.H.	Yes	N/A																																																																		

Notes: A gravel road leads to this recreational site. Little Gin Hole Landing.

Yellow River		ok-0319-006	Severity Score 4.75																																																																																										
<u>Common:</u> 10.3mi SW of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida																																																																																											
<u>Drainage:</u> Blackwater Bay	<u>PLSS(T-R-S):</u> 2N-25W-14																																																																																												
<u>Land owner:</u> RB: NFWFMD/ LB: USA	<u>Parcel No.:</u> 1/2																																																																																												
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Notes: Roots and new trees showing recent repair of riparian buffer, but bare banks. Logging road 33ft from rivers edge on the left bank. Former clear cut evident in historical aerial (1994).

Boiling Creek		sr-1006-001	Severity Score 4.25																																														
<u>Common:</u> 6.2mi SE of Milton <u>Drainage:</u> Yellow River <u>Land owner:</u> LB: USA- Eglin AFB/ RB: NFWFMD	<u>County:</u> Santa Rosa <u>PLSS(T-R-S):</u> 1N-27W-24 <u>Parcel No.:</u> 2/1	<u>State:</u> Florida																																															
																																																	
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			<p>Additional Site Features</p> <p><u>Stream Channel Woody Material:</u> Infrequent <u>Impoundments:</u> None <u>Substrate Composition:</u> Medium Sand <u>Bank Material:</u> Sand</p>																																														

Notes: The public boat launch is frequented for AFB training. Team observed multiple Hummers at launch as well as witnessed closing of the road for the final mission for Ranger School. Boat launch is composed of about five percent concrete. Road leading to boat launch is within the flood plain and frequently flooded. Difficult to drive.

Yellow River		ok-0319-002	Severity Score 3.75		
<u>Common:</u> 7.4mi SW of Crestview <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.680552, -86.651965 <u>Land owner:</u> USA- Eglin AFB	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 2N-16W-16 <u>Parcel No.:</u> 1	<u>State:</u> Florida			
					
LB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	1	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	Sturgeon Spawning	No	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	Yes	NARROW PIGTOE
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i>	Moderate	
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i>	None	
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i>	Medium Sand	
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i>	Sand	
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
River Threat Index: 3.75					

Notes: Eglin AFB Gin Hole Landing recreational site. Found shotgun shells on the back. Scar of improvised boat launch? Evidence of camp fires. Top of LB is clear.

Shoal River	ok-0421-003	Severity Score 3.5																																																																		
<u>Common:</u> 5.7mi SW of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.690948407, -86.619695355 <u>Land owner:</u> USA – Eglin AFB	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 2N-24W-11 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																																		
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Notes: Road adjacent to eroded bank, contributing

Yellow River	ok-0225-003	Severity Score 3.5																																													
<u>Common:</u> 12.2mi SW of Crestview, .2mi DS Tarwick Creek <u>Drainage:</u> Yellow River <u>GPS:</u> 30.671957, -86.748319 <u>Land owner:</u> RB: Joe Livingston/ LB: USA- Eglin AFB	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 16-2N-25 <u>Parcel No.:</u> 6.003F/ LB: 2	<u>State:</u> Florida																																													
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Notes: This site is the south end of a foot path coming from the River's Edge Campground, pictured in the northeast corner of the aerial photo.

Yellow River	ok-0319-007	Severity Score 2.5																																																																																	
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Notes: Old silviculture site? Very limited old growth, mostly the first few feet on top of the bank. The vegetation beyond the initial floodplain coverage is clearly young growth. Aerial image shows evidence of the old lateral meander channel.

Yellow River	ok-0224-001	Severity Score 2.5																																																																																	
<u>Common:</u> 13.4mi SE of Crestview <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.659633, -86.763533 <u>Land owner:</u> LB: NFWFMD; USA- Eglin AFB	<u>County:</u> Okaloosa <u>PLSS:</u> 2N-25W-20 <u>Parcel No.:</u> LB: 1.001; 3	<u>State:</u> Florida																																																																																	
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<i>Bank Material:</i> Sand and Roots																																																																																			

Notes: Close proximity to a public boat launch. Receives a lot of wake/ wave action.

Yellow River	sr-0305-005	Severity Score 2																																																																																	
<u>Common:</u> 11mi E of Bagdad <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.611, -86.835167 <u>Land owner:</u> RB: NFWFMD / LB: USA- Eglin AFB	<u>County:</u> Santa Rosa <u>PLSS:</u> 1N-26W-10 <u>Parcel No.:</u> 1/2	<u>State:</u> Florida																																																																																	
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Notes: Natural feature

Yellow River	sr-0305-004	Severity Score 1.5																																																																																	
<u>Common:</u> 12mi E of Bagdad <u>Drainage:</u> Blackwater Bay <u>Land owner:</u> NFWFMD	<u>County:</u> Santa Rosa <u>PLSS:</u> 1N-26W-3 <u>Parcel No.:</u> 1.001	<u>State:</u> Florida																																																																																	
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Notes: Natural feature.

Shoal River	ok-0422-001	Severity Score 1.5																																																																																	
<u>Common:</u> 5.3mi SW of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.69467494, -86.61382983 <u>Land owner:</u> USA	<u>County:</u> Okaloosa <u>PLSS:</u> 2N-24W-11 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																																																	
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Notes: Aggradational Site: Large, fresh deposit extended into forest- 4 in of fine sand and about 1 inch of coarse sand result of recent heavy rains and flooding.

Yellow River	ok-0224-002	Severity Score 1.5
<u>Common:</u> 16.6mi NE of Bagdad <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.658450, -86.763867 <u>Land owner:</u> RB: NFWFMD / LB: USA- Eglin AFB	<u>County:</u> Okaloosa <u>PLSS:</u> 2N-25W-20 <u>Parcel No.:</u> 1.001/ 3	<u>State:</u> Florida
		
		
Risk Factor	Ranking	Score
<i>Channel Stability</i>	Good	0.5
<i>Channel Alteration</i>	None	0
<i>Bank Erosion</i>	Historic	0.5
<i>BEHI</i>	Moderate	0.5
<i>Local NPSP</i>	No Evidence	0
<i>Shoring Structures</i>	Not Present	0
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Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/ Cover	Yes	N/A/ STREAMS AND LAKE SWAMPS (BOTTOMLAND)
Candidate Mussels	No	N/A
Sturgeon C.H.	Yes	N/A
Additional Site Features <i>Stream Channel Woody Material:</i> Moderate <i>Impoundments:</i> None <i>Substrate Composition:</i> Medium Sand <i>Bank Material:</i> Sand, Mud, and Roots		

Notes: Riparian zone is fully intact. Natural eroding bend.

Camp Creek

ok-0407-r-007

Sedimentation Risk Index
34

Common: 5.5mi SSW of Holt
Drainage: Yellow River GPS: 30.638242, -86.772761
Land owner: US Government- Eglin AFB

County: Okaloosa
PLSS(T-R-S): 2N-25-31
Parcel No.: 1
Road Name: Rattlesnake Bluff Rd



Crossing Structure: US



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 6,12,13,20,24,25
Rt Approach Prism Fill: 2.0in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR,BLUENOSE SHINER, GULF STURGEON,SPECKLED CHUB, IRONCOLOR SHINER,SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/ Cover	Yes	INSTITUTIONAL/ NA
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Failing BMPs installed DS. Unnaturally ponded as a result of undersized

Crane Branch

sr-0414-r-001

Sedimentation Risk Index
34

Common: 5.3mi SE of Harold
Drainage: Yellow River GPS: 30.621522, -86.801922
Land owner: US Government- Eglin AFB

County: Santa Rosa
PLSS(T-R-S): 1N-26-01
Parcel No.: 1
Road Name: RR 211- Eglin AFB

State: Florida



Crossing Structure: DS



US



Google

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	30

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Reinforced Concrete
Soil Types: 7,21,22,23
Rt Approach Prism Fill: 2.0in
Lt Approach Prism Fill: 2.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/ Cover	Yes	PARCELS WITH NO VALUES/ NA
Candidate Mussels	No	N/A
Sturgeon	No	N/A

Notes: Failing BMPs installed. 1 culvert blocked 1 clear

Gopher Creek	ok-0318-r-001	Sedimentation Risk Index 36																																																																																							
<u>Common:</u> 5.9mi SW of Crestview <u>Drainage:</u> Shoal River <u>GPS:</u> 30.681847, -86.606008 <u>Land owner:</u> US Government- Eglin AFB	<u>County:</u> Okaloosa <u>PLSS (T-R-S):</u> 2N-24-11 <u>Parcel No.:</u> 1 <u>Road Name:</u> Rattlesnake Hill Rd	<u>State:</u> Florida																																																																																							
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Land Use/ Cover	Yes	INSTITUTIONAL/ N/A																																																																																							
Candidate Mussels	No	N/A																																																																																							
Sturgeon C.H.	No	N/A																																																																																							

Notes: Rt Outlet draining directly into DS via additional culvert.

Carroll Creek

ok-0407-r-006

Sedimentation Risk Index
40

Common: 4.9mi S of Holt
Drainage: Yellow River GPS: 30.645911, -86.757428
Land owner: US Government- Eglin AFB

County: Okaloosa
PLSS(T-R-S): 2N-25-22
Parcel No.: 1
Road Name: Rattlesnake Bluff Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	40

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 4,6,8,12,13,14,20,23,24,25,50
Rt Approach Prism Fill: 2.5in
Lt Approach Prism Fill: 3.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR,BLUENOSE SHINER, GULF STURGEON,SPECKLED CHUB, IRONCOLOR SHINER,SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/ Cover	Yes	INSTITUTIONAL/ N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Failing BMPs installed. Culvert undersized for flow affecting skew angle.

Milligan Creek

ok-0407-r-008

Sedimentation Risk Index
40

Common: 6.6mi SE of Harold
Drainage: Yellow River GPS: 30.631983, -86.774081
Land owner: US Government-Eglin AFB

County: Okaloosa
PLSS(T-R-S): 2N-25-31
Parcel No.: 1
Road Name: Rattlesnake Bluff Rd



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	40

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 4,6,8,12,13,14,20,23,25,50
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 3.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	4-6 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR,BLUENOSE SHINER, GULF STURGEON,SPECKLED CHUB, IRONCOLOR SHINER,SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/ Cover	Yes	INSTITUTIONAL/ NA
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Bare soil fill and drainage/outlets, major score influence. High slope %, sediment input.

Atwell Pond	sr-0414-r-005	Sedimentation Risk Index 40																																																																																							
<u>Common:</u> 6.7mi S of Harold <u>Drainage:</u> Poplar Branch <u>GPS:</u> 30.561150, -86.873011 <u>Land owner:</u> US Government- Eglin AFB	<u>County:</u> Santa Rosa <u>PLSS(T-R-S):</u> 1N-26-29 <u>Parcel No.:</u> 1 <u>Road Name:</u> RR 211-Eglin AFB	<u>State:</u> Florida																																																																																							
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Notes: Recreational site- possible fishing pond.

Crain Pond	ok-0318-r-002	Sedimentation Risk Index 42																																																																																							
<u>Common:</u> 6.3mi SW of Crestview <u>Drainage:</u> Shoal River <u>GPS:</u> 30.681965, -86.622201 <u>Land owner:</u> US Government- Eglin AFB	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 2N-24-11 <u>Parcel No.:</u> 1 <u>Road Name:</u> Rattlesnake Bluff Rd	<u>State:</u> Florida																																																																																							
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Sturgeon C.H.	No	N/A																																																																																							

Notes: Reservoir drain/stand pipe US, unable to locate DS drainage structure.

Carr Spring Branch		ok-0318-r-003	Sedimentation Risk Index 42
<u>Common:</u> 8.2mi SW of Crestview			
<u>Drainage:</u> Yellow River	<u>GPS:</u> 30.674736, -86.650819	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Land owner:</u> US Government- Eglin AFB		<u>PLSS(T-R-S):</u> 2N-24-16	
		<u>Parcel No.:</u> 1	
		<u>Road Name:</u> Rattlesnake Bluff Rd	
			
Crossing Structure: DS		US	
Risk Factor	Ranking	Score	
<i>US Channel Morph</i>	E	5	
<i>DS Channel Morph</i>	C	5	
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3	
<i>Upstream Skew Angle</i>	5-30°	3	
<i>Crossing fill condition</i>	Fair/Riprap	3	
<i>Inlet/Outlet Condition</i>	No Impairment	5	
<i>Road Approach Material</i>	All Sand/Clay	3	
<i>Potential Eroded Volume Mean</i>	>40 y³	1	
<i>Approach Slope Mean</i>	2.1-4%	3	
<i>Soil K Factor</i>	<0.20	5	
<i>Upstream Rt Outlet</i>	Vegetated	1	
<i>Upstream Lt Outlet</i>	Vegetated	1	
<i>Upstream Rt Ditch</i>	Bare soil	0	
<i>Upstream Lt Ditch</i>	Bare soil	0	
<i>Downstream Rt Outlet</i>	Bare soil	0	
<i>Downstream Lt Outlet</i>	Bare soil	0	
<i>Downstream Rt Ditch</i>	Vegetated	1	
<i>Downstream Lt Ditch</i>	Vegetated	1	
<i>Outlet Total</i>	Partially Improved Outlet System	3	
<i>Ditches Total</i>	Partially Improved Drainage System	3	
SRI Total	Medium Risk	42	
Additional Site Features			
<u>Crossing Type and Quantity:</u>	Culvert, 1		
<u>Crossing Materials:</u>	Reinforced Concrete		
<u>Soil Types:</u>	4,6,8,12,13,20,24,25		
<u>Rt Approach Prism Fill:</u>	2.5in		
<u>Lt Approach Prism Fill:</u>	2.0in		

Notes: Fish passage barrier due to DS drop off. Located between two lateral roads Gin Hole/Little Gin Hole.

Unnamed tributary

ok-0407-r-003

Sedimentation Risk Index

44Common: 5.6mi SE of HoltDrainage: Yellow RiverGPS: 30.661569, -86.688442Land owner: US Government- Eglin AFBCounty: OkaloosaPLSS(T-R-S): 2N-24-19Parcel No.: 1Road Name: Rattlesnake Bluff Rd

Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site FeaturesCrossing Type and Quantity: Bridge, 1Crossing Materials: WoodSoil Types: 4,6,8,12Rt Approach Prism Fill: 1.5inLt Approach Prism Fill: 1.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	4-6 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR,BLUENOSE SHINER, GULF STURGEON,SPECKLED CHUB, IRONCOLOR SHINER,SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/ Cover	Yes	INSTITUTIONAL/ N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None.

Malone Creek

ok-0407-r-004

Sedimentation Risk Index
44

Common: 4.7mi SE of Holt
Drainage: Yellow River GPS: 30.660061, -86.698961
Land owner: US Government- Eglin AFB

County: Okaloosa
PLSS(T-R-S): 2N-25-22
Parcel No.: 1
Road Name: Rattlesnake Bluff Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Riprap	3
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 4,8,6,12
Rt Approach Prism Fill: 0.75in
Lt Approach Prism Fill: 0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	INSTITUTIONAL/ N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rip rap in stream causing potential fish passage barrier.

Wolf Creek

sr-0407-r-009

Sedimentation Risk Index
44

Common: 5.2mi SE of Harold
Drainage: Yellow River GPS: 30.607561, -86.816481
Land owner: US Government- Eglin AFB

County: Santa Rosa
PLSS(T-R-S): 1N-26-11
Parcel No.: 1
Road Name: RR 211- Eglin AFB

State: Florida



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Culvert,1
Crossing Materials: Metal
Soil Types: 7,21,22,23,46
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/ Cover	Yes	INSTITUTIONAL/ NA
Candidate Mussels	No	N/A
Sturgeon	No	N/A

Notes: Undersized culvert.

Boiling Creek

sr-0414-r-004

Sedimentation Risk Index
44

Common: 6.5mi S of Harold
Drainage: Yellow River GPS: 30.564953, -86.869203
Land owner: US Government- Eglin AFB

County: Santa Rosa
PLSS(T-R-S): 1N-26-29
Parcel No.: 1
Road Name: RR 211- Eglin AFB

State: Florida



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 7,21,22,34,40,46,47
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	BLUENOSE SHINER, IRONCOLOR SHINER
Land Use/ Cover	Yes	PUBLIC/SEMI-PUBLIC/ NA
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: US RT outlet leads directly to US channel for approx. 100 ft. Public swimming hole, canoe launch.
Frequented for missions by Eglin.

Turkey Gobbler Creek	ok-0318-r-004	Sedimentation Risk Index 46																																																																																							
<u>Common:</u> 7.6mi SW of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.671397, -86.662544 <u>Land owner:</u> US Government- Eglin AFB	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 2N-24-17 <u>Parcel No.:</u> 2 <u>Road Name:</u> Rattlesnake Bluff Rd	<u>State:</u> Florida																																																																																							
 Crossing Structure: US	 DS																																																																																								
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Candidate Mussels	No	N/A																																																																																							
Sturgeon C.H.	No	N/A																																																																																							

Notes: None

Broxon Branch

sr-0407-r-010

Sedimentation Risk Index
46

Common: 4.7mi SE of Harold
Drainage: Yellow River GPS: 30.601675, -86.835833
Land owner: US Government- Eglin AFB

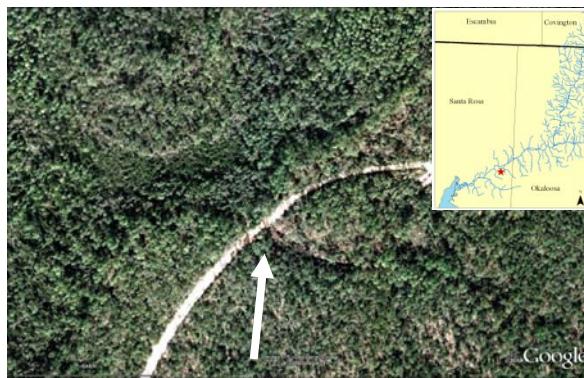
County: Santa Rosa
PLSS(T-R-S): 1N-26-10
Parcel No.: 1
Road Name: RR 211- Eglin AFB



Crossing Structure: US



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	46

Additional Site Features

Crossing Type and Quantity: Culvert,1
Crossing Materials: Metal
Soil Types: 6,12,13,20,24,25
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/ Cover	Yes	INSTITUTIONAL/ N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rip rap in stream bed

Bear Creek

sr-0414-r-002

Sedimentation Risk Index
46

Common: 5.1mi S of Harold
Drainage: Yellow River GPS: 30.588031, -86.857264
Land owner: US Government-Eglin AFB

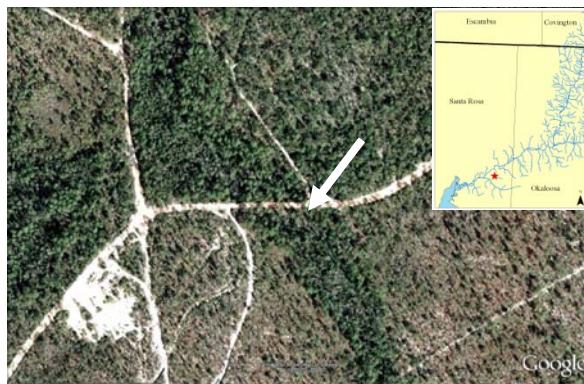
County: Santa Rosa
PLSS(T-R-S): 1N-26-16
Parcel No.: 1
Road Name: RR 211- Eglin AFB



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	46

Additional Site Features

Crossing Type and Quantity: Culvert,1
Crossing Materials: Metal
Soil Types: 7,21,22,23
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/ Cover	Yes	PUBLIC/SEMI-PUBLIC/ NA
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None.

Middle Creek	ok-0318-r-005	Sedimentation Risk Index 48																																																																		
<u>Common:</u> 5.4mi SE of Holt <u>Drainage:</u> Yellow River <u>GPS:</u> 30.663836, -86.676223 <u>Land owner:</u> US Government- Eglin AFB	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 2N-24-19 <u>Parcel No.:</u> 2 <u>Road Name:</u> Rattlesnake Bluff Rd	<u>State:</u> Florida																																																																		
		DS																																																																		
Crossing Structure: US																																																																				
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Additional Site Features <u>Crossing Type and Quantity:</u> Bridge, 1 <u>Crossing Materials:</u> Reinforced Concrete <u>Soil Types:</u> 4,6,8,12,13,20,24,25 <u>Rt Approach Prism Fill:</u> 2.0in <u>Lt Approach Prism Fill:</u> 2.0in	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H.	Within Range No Yes No Yes No No	Descriptive Field N/A 1-3 FOCAL SPECIES IN UPLAND AREAS N/A INSTITUTIONAL/ N/A N/A N/A																																																																	

Notes: None.

Metts Creek

ok-0407-r-005

Sedimentation Risk Index
50

Common: 4.2 mi S of Holt
Drainage: Yellow River GPS: 30.655936, -86.729417
Land owner: US Government- Eglin AFB

County: Okaloosa
PLSS(T-R-S): 2N-25-22
Parcel No.: 1
Road Name: Rattlesnake Bluff Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	50
Additional Site Features		
<i>Crossing Type and Quantity:</i>	Bridge, 1	
<i>Crossing Materials:</i>	Reinforced Concrete	
<i>Soil Types:</i>	12,13,15	
<i>Rt Approach Prism Fill:</i>	0.75in	
<i>Lt Approach Prism Fill:</i>	2.0in	



Notes: None.

Loon Branch

sr-0414-r-006

Sedimentation Risk Index
52

Common: 6.3mi S of Harold
Drainage: Boiling Creek GPS: 30.568467, -86.867492
Land owner: US Government- Eglin AFB

County: Santa Rosa
PLSS(T-R-S): 1N-26-29
Parcel No.: 1
Road Name: RR 211- Eglin AFB

State: Florida



Crossing Structure: DS

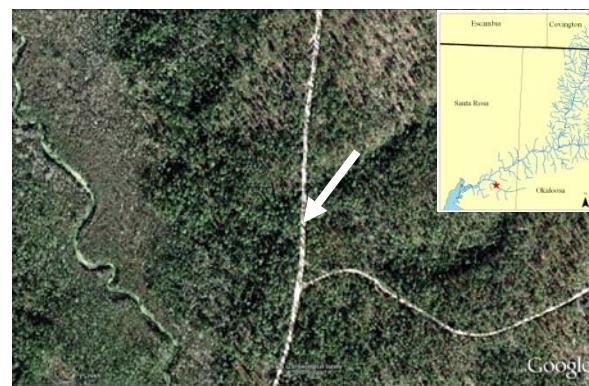


DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	52

Additional Site Features

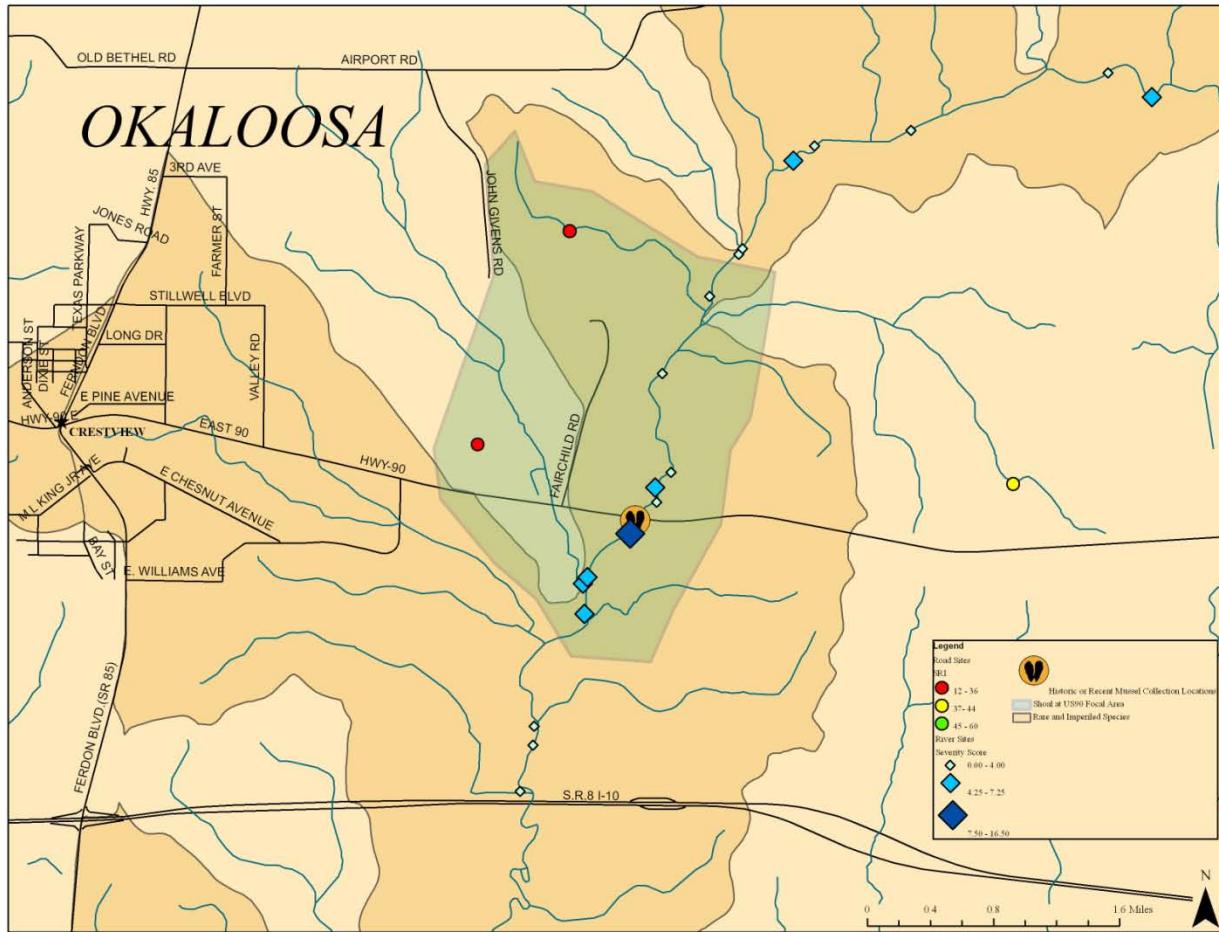
Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 7,21,23,34,40,46,47
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	BLUENOSE SHINER, IRONCOLOR SHINER
Land Use/ Cover	Yes	PUBLIC/SEMI-PUBLIC/ NA
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None.

Appendix I. Shoal River at US-90 Focal Area. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



Shoal River	ok-0423-001	Severity Score 11																																																																																	
<u>Common:</u> 3.6mi E of Crestview, .01mi S of Hwy 90 <u>Drainage:</u> Yellow River <u>GPS:</u> 30.751625588,-86.510107894 <u>Land owner:</u> RB: G.W. McLean Jr. LB: E. Aycock Jr./ K. & W. Manring/R. W. Alter/ R. Ward & L. Weasley/ JRW Investments LLC	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-23W-14 <u>Parcel No.:</u> RB:2, LB:2.2/ 1.9/ 1.800/ 1.9001/ 2.2002	<u>State:</u> Florida																																																																																	
																																																																																			
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Notes: Reach length is 2043 feet long. It is characterized by a lack of a riparian buffer on the right bank as seen on the aerial photo. Shoring structures used include rip rap and concrete. County road 90 bridge and a private boat launch is also located at this location. Houses located right on top of bank, some in disrepair/abandoned.

Shoal River	ok-0423-003	Severity Score 7																																																																		
<u>Common:</u> 3.5mi E of Crestview, Piney Woods Creek confluence <u>Drainage:</u> Shoal River <u>GPS:</u> 30.747224508, -86.515099394 <u>Land owner:</u> RB: Purl G Adams Jr. / LB: George & Essie Mack	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-23W-23 <u>Parcel No.:</u> 1/ 1.0140	<u>State:</u> Florida																																																																		
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Notes: Residence on left bank across from site. Site adjacent to power line crossing and below Hwy 90. Dead mussels found at this site. Live corbicula also found.

Shoal River	ok-0423-004	Severity Score 6.5																																																															
<u>Common:</u> 3.5mi SE of Crestview, 0.7mi DS of HWY 90 Bridge <u>Drainage:</u> Yellow River <u>GPS:</u> 30.744442, -86.514964 <u>Land owner:</u> RB: Purl G Adams Jr./ George & Essie Mack	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-23W-23 <u>Parcel No.:</u> 1/ 1.0140	<u>State:</u> Florida																																																															
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Notes: Located along an area of the Shoal that lacks sinuosity

Shoal River	ok-0616-008	Severity Score 4.5																																																																		
<u>Common:</u> 3.5mi W of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.747795616, -86.514648498 <u>Land owner:</u> George & Essie Mack- LB, Purl Adams Jr. -RB	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-23W-23 <u>Parcel No.:</u> 1.014; 1.0	<u>State:</u> Florida																																																																		
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Sturgeon C.H.	No	N/A																																																																		

Notes: Power line at site. Power lines lack any sort of buffer or fill. Shallow area of the Shoal.

Shoal River	ok-0616-006	Severity Score 4.5
<u>Common:</u> 3.8mi E of Crestview <u>Drainage:</u> Yellow River <u>Land owner:</u> Rita Chimiak	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-23W-13 <u>Parcel No.:</u> 1	<u>State:</u> Florida
 RB		
Risk Factor	Ranking	Score
<i>Channel Stability</i>	Poor	1.5
<i>Channel Alteration</i>	None	0
<i>Bank Erosion</i>	Mass Wasting	1.5
<i>BEHI</i>	High	1
<i>Local NPSP</i>	No Evidence	0
<i>Shoring Structures</i>	Not Present	0
<i>Pipe Discharge</i>	Not Present	0
<i>Water Odors</i>	Not Present	0
<i>Fish Passage Barrier</i>	Not Present	0
<i>RB: Riparian Buffer</i>	100+ ft	0
<i>LB: Riparian Buffer</i>	100 + ft	0
<i>RB: Floodplain Access</i>	Partial	0.25
<i>LB: Floodplain Access</i>	Partial	0.25
River Threat Index:		4.5
Feature Within Range Descriptive Field		
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	GOLDSTRIPE DARTER, SPECKLED CHUB, IRONCOLOR SHINER
Land Use/ Cover	Yes	N/A/ STREAMS AND WATERWAYS
Candidate Mussels	Yes	SOUTHERN SANDSHELL
Sturgeon C.H.	No	N/A
Additional Site Features		
<i>Stream Channel Woody Material:</i> Moderate		
<i>Impoundments:</i> None		
<i>Substrate Composition:</i> Medium Sand		
<i>Bank Material:</i> Sand and Clay		

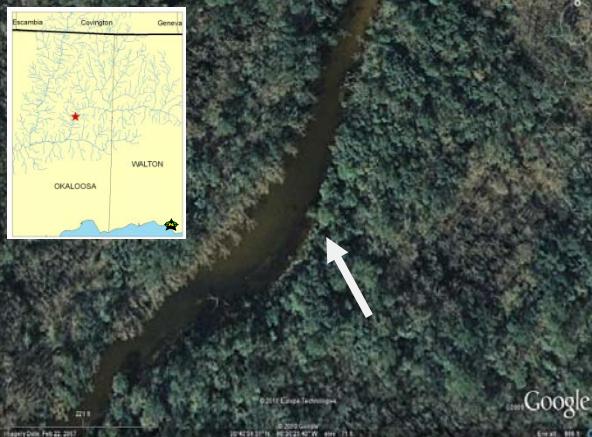
Notes: Foot path along top of bank for public access to sand bars.

Shoal River	ok-0616-005	Severity Score 2.5																																												
<u>Common:</u> 3.9mi E of Crestview <u>Drainage:</u> Yellow River <u>Land owner:</u> Rita Chimiak	<u>County:</u> Okaloosa <u>PLSS:</u> 3N-23W-11 <u>Parcel No.:</u> 2	<u>State:</u> Florida																																												
																																														
																																														
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	Additional Site Features <i>Stream Channel Woody Material:</i> Moderate <i>Impoundments:</i> None <i>Substrate Composition:</i> Medium Sand <i>Bank Material:</i> Sand																																													

Notes: Aggradational site: Some localized deposition along top of low bank. Moderate number of deep pools.
 Erosion opposite depositional sites. Public access for recreation, trail leading to RB. OFW

Shoal River	ok-0616-007	Severity Score 3			
<u>Common:</u> 3.8mi E of Crestview <u>Drainage:</u> Yellow River <u>Land owner:</u> Rita Chimiak	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-23W-13 <u>Parcel No.:</u> 1	<u>State:</u> Florida			
					
					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	Not Eroding	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	Land Use/ Cover	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Slight	0.5	Candidate Mussels	Yes	SOUTHERN SANDSHELL
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
River Threat Index: 3					

Notes: Public swimming area, trail leading from boat launch at CR 90. OFW

Shoal River		ok-0616-004	Severity Score 2.5
<u>Common:</u> 3.8mi E of Crestview	<u>GPS:</u> 30.766514202, -86.506551301	<u>County:</u> Okaloosa	<u>State:</u> Florida
<u>Drainage:</u> Yellow River		<u>PLSS:</u> 3N-23W-12	
<u>Land owner:</u> Rita Chimiak		<u>Parcel No.:</u> 2	
 <p>LB</p>			
Risk Factor	Ranking	Score	Feature Within Range Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d) No N/A
<i>Channel Alteration</i>	None	0	Wetland Species Yes 1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled Yes GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover Yes N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels No N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H. No N/A
<i>Pipe Discharge</i>	Not Present	0	
<i>Water Odors</i>	Not Present	0	
<i>Fish Passage Barrier</i>	Not Present	0	
<i>RB: Riparian Buffer</i>	100+ ft	0	
<i>LB: Riparian Buffer</i>	100+ ft	0	
<i>RB: Floodplain Access</i>	Partial	0.25	Additional Site Features
<i>LB: Floodplain Access</i>	Partial	0.25	<i>Stream Channel Woody Material:</i> Moderate
River Threat Index: 2.5			<i>Impoundments:</i> None
			<i>Substrate Composition:</i> Medium Sand
			<i>Bank Material:</i> Sand

Notes: Lt bank evidence of clear cutting from aerial beyond buffer. OFW

Shoal River	ok-0616-003	Severity Score 2																																																																		
<u>Common:</u> 4.2mi NE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.7736074, -86.501451979 <u>Land owner:</u> Rita Chimiak	<u>County:</u> Okaloosa <u>PLSS:</u> 3N-23W-12 <u>Parcel No.:</u> 2	<u>State:</u> Florida																																																																		
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Sturgeon C.H.	No	N/A																																																																		

Notes: Unpaved road paralleling river 0.1mi E. OFW.

Moccasin Branch

ok-1005-r-001

Sedimentation Risk Index
24

Common: 3.4mi NE of Crestview
Drainage: Shoal River GPS: 30.779656684, -86.516359725
Land owner: BCC (Board of County Commissioners); Okaloosa Airport Authority

County: Okaloosa
PLSS(T-R-S): 3N-23-11
Parcel No.: 3; 9
Road Name: Fairchild Rd

State: Florida



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	24

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 12, 13, 37, 43
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 0.5in

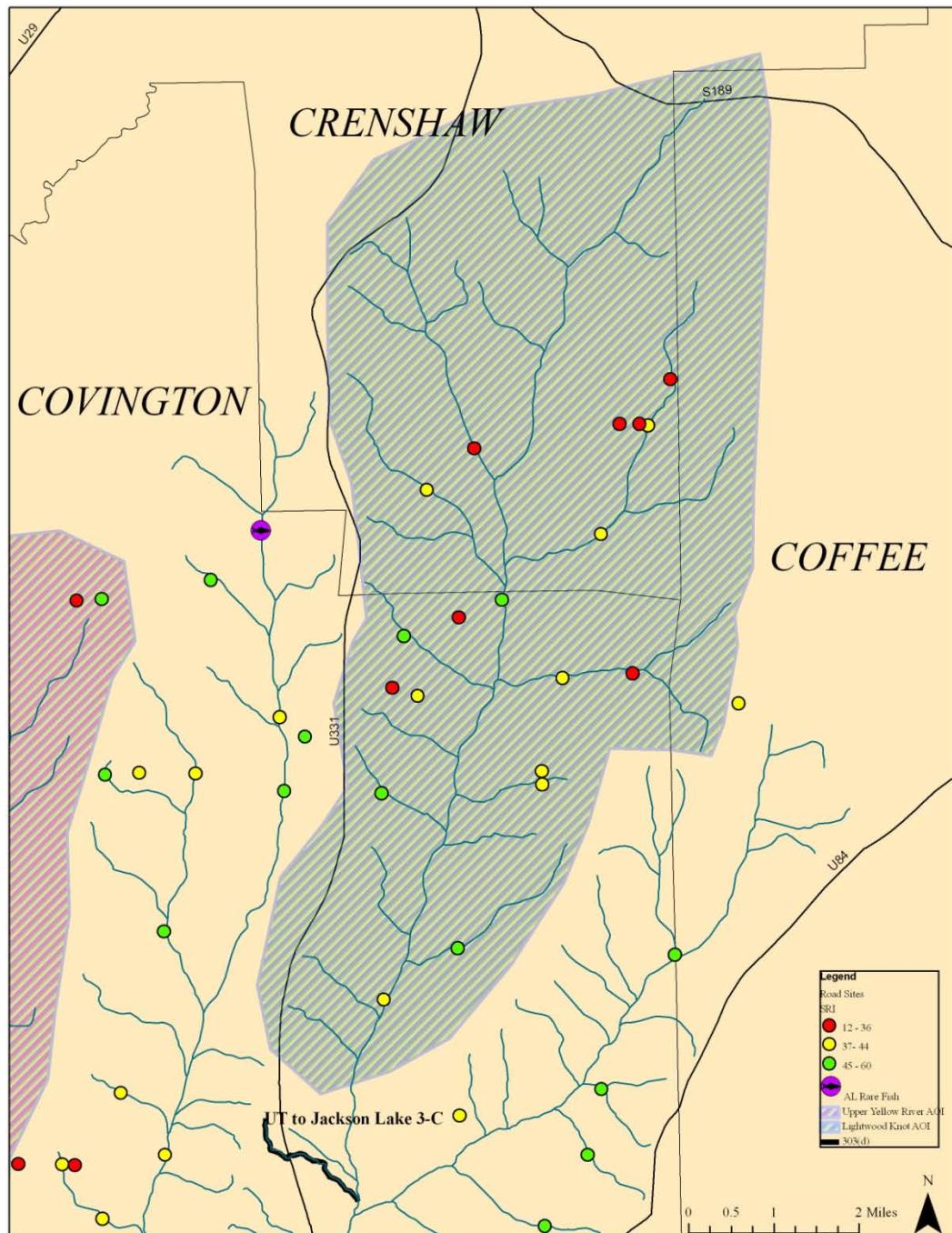
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Rare and Imperiled	Yes	GOLDSTRIPE DARTER, SPECKLED CHUB, IRONCOLOR SHINER
Land Use/ Cover	Yes	NA/ CYPRESS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Excessive sediment loading and erosion coming from the road and outlets. Fence across US channel.

Unnamed tributary	ok-1005-r-004	Sedimentation Risk Index 30																																																																		
<u>Common:</u> 3mi E of Crestview <u>Drainage:</u> Piney Woods Creek <u>GPS:</u> 30.760026254, -86.526285872 <u>Land owner:</u> BCC-US, John & Cynthia Price-DS North, David & Carolyn McMillian DS South	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-23-15 <u>Parcel No.:</u> 1.0310, 49, 39 <u>Road Name:</u> Hare Rd	<u>State:</u> Florida																																																																		
																																																																				
Crossing Structure: US		US																																																																		
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Additional Site Features <p> <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 6,12,13 <u>Rt Approach Prism Fill:</u> 0.5in <u>Lt Approach Prism Fill:</u> 0.5in </p>		<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Rare and Imperiled</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Land Use/ Cover</td> <td>Yes</td> <td>PUBLIC/SEMI-PUBLIC/ WETLAND FOREST MIXED</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	PUBLIC/SEMI-PUBLIC/ WETLAND FOREST MIXED	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																													
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Notes: DS drop off. US RT outlet contributing excessive sedimentation, also seen in aerial photo.

Appendix J. Lightwood Knot Area of Interest. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



Blaze Branch

cr-1103-r-002

Sedimentation Risk Index
26

Common: .56mi NW of Pine Level
Drainage: Lightwood Knot GPS: 31.477386178,-86.195855819
Land owner: Mildred Bozema

County: Crenshaw
PLSS (T-R-S): 6N-18E-24
Parcel No.: 3
Road Name: Community Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	26

Additional Site Features

Crossing Type and Quantity: Culvert,1
Crossing Materials: Metal
Soil Types: Cf: 2,30,3 /Cr: Bba,Nse,TaB,Tac
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB (CLEAR CUT)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Impounded upstream, high DS bank alteration. Bare ditches and outlets also influencing score.

Blaze Branch

cr-1103-r-004

Sedimentation Risk Index
34

Common: 1.0mi SW of Pine Level
Drainage: Lightwood Knot GPS: 31.469813150,-86.202034694
Land owner: Heath Kilcrease -US, Robert Jr. Kilcrease -DS

County: Crenshaw
PLSS (T-R-S): 6N-18E-24/25
Parcel No.: 8,1
Road Name: Kilcrease Rd



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Culvert ,1
Crossing Materials: Metal
Soil Types: BbA,NsE,OrB,OrC,TaB
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB (CLEAR CUT)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Bare ditches and outlets influencing score. First order tributary.

Unnamed tributary

co-1102-r-014

Sedimentation Risk Index
36

Common: 3.9mi E of Five Points
Drainage: Lightwood Knot GPS: 31.437050631,-86.238183603
Land owner: Patricia Armstead

County: Covington
PLSS (T-R-S): 5N-18E-3
Parcel No.: 8
Road Name: Bell Crossing Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Culvert,1

Crossing Materials: Metal

Soil Types: FuB,OrB,OrC,TrD

Rt Approach Prism Fill: 0.25in

Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Pond US, not visible from road. Bare soil ditches and outlets influencing score.

Mill Creek

co-1103-r-007

Sedimentation Risk Index
36

Common: 2.36mi NW of Danleys Crossing
Drainage: Lightwood Knot GPS: 31.4273,-86.20377
Land owner: D&L M -US, Wilene Holmes -DS

County: Covington State: Alabama
PLSS (T-R-S): 5N-18E-1
Parcel No.: 5.06, 5.01
Road Name: Cauley Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	F	1
<i>DS Channel Morph</i>	F	1
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Concrete	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Rein. Concrete
Soil Types: MBA, OrB, OrC, TrB, TrD
Rt Approach Prism Fill: 0.20in
Lt Approach Prism Fill: 0.10in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None.

Unnamed Tributary

co-1104-r-003

Sedimentation Risk Index
36

Common: 3.0mi NW of Friendship
Drainage: Lightwood Knot GPS: 31.425128352,-86.251514223
Land owner: Collis Eaton-US, Qunion Kelley-DS

County: Covington
PLSS (T-R-S): 5N-18E-4
Parcel No.: 15.02,1
Road Name: Weaver Place

State: Alabama



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Culvert,1
Crossing Materials: Metal
Soil Types: MBA, OrB, OrC, TrB, TrD
Rt Approach Prism Fill: 0.15in
Lt Approach Prism Fill: 0.15in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Parker Creek

cr-1102-r-011

Sedimentation Risk Index
36

Common: 2.9mi SW of Pine Level
Drainage: Lightwood Knot GPS: 31.465826148,-86.234935448
Land owner: Rayonier Woodlands LLC c/o Darlene Edmondson

County: Crenshaw
PLSS (T-R-S): 6N-18E-27
Parcel No.: 1
Road Name: Parker Creek Rd

State: Alabama



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Wood
Soil Types: BbA,LcB,NsE,TaB
Rt Approach Prism Fill: 0.50in
Lt Approach Prism Fill: 0.50in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SMAILL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Bare ditches and outlets, high slopes and sediment input influencing score.

Blaze Branch

cr-1103-r-005

Sedimentation Risk Index
36

Common: 1.2mi SW of Pine Level
Drainage: Lightwood Knot GPS: 31.469551544, -86.205979180
Land owner: Robert Beach -US, G.A. Lindsey -DS

County: Crenshaw
PLSS (T-R-S): 6N-18E-25
Parcel No.: 2.001,3
Road Name: Kilcrease Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	A	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Culvert,2
Crossing Materials: Reinforced Concrete
Soil Types: LcB,NsE,OrB,SpD2,TaB
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Eroding slope Lt approach. Blocked culverts from bare soil and ditches influencing score.

Unnamed tributary

co-1103-r-009

Sedimentation Risk Index
38

Common: 1.0mi NW of Friendship
Drainage: Lightwood Knot GPS: 31.410757692,-86.221951825
Land owner: Miriam Barlow East, James & Dorothy Birge West

County: Covington
PLSS (T-R-S): 5N-18E-14
Parcel No.: 1,2
Road Name: Barlow Rd

State: Alabama



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	38



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB (OTHER)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Additional Site Features

Crossing Type and Quantity: Culvert,1
Crossing Materials: Metal
Soil Types: MBA, OrC, OrE, TrD
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.5in

Notes: Bare fill, mostly bare ditches and outlets influencing score.

Unnamed tributary	co-1104-r-004	Sedimentation Risk Index 38																																																																		
<u>Common:</u> 2.8mi NW of Friendship <u>Drainage:</u> Lightwood Knot <u>GPS:</u> 31.423688286,-86.246453020 <u>Land owner:</u> Johnny & Barbara Donaldson	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 5N-18E-5 <u>Parcel No.:</u> 1 <u>Road Name:</u> Weaver Place	<u>State:</u> Alabama																																																																		
																																																																				
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Additional Site Features <p><u>Crossing Type and Quantity:</u> Culvert,2 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> MBA,Orc,TrB,TrD <u>Rt Approach Prism Fill:</u> 0.10in <u>Lt Approach Prism Fill:</u> 0.25in</p>																																																																				

Notes: Rip rap in channel causing partial fish passage barrier. Draining into DS impoundment 0.25mi East.

Blaze Branch

cr-1103-r-003

Sedimentation Risk Index
38

Common: .92mi SW of Pine Level
Drainage: Lightwood Knot GPS: 31.469495863,-86.2003131158
Land owner: Bryan Hubery Ray Jr & William Payne -US, Robert Jr. Kilcrease -DS

County: Crenshaw State: Alabama
PLSS (T-R-S): 6N-18E-25
Parcel No.: 1.01, 1
Road Name: Kilcrease Rd



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Rip Rap	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Rip Rap	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	38

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Reinforced Concrete
Soil Types: BbA,NsE,OrB,OrC,TaB
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A SUCCESSIONAL SHRUB/SCRUB(CLEAR CUT), PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: High sediment loading from DS outlets.

Unnamed tributary	cf-1103-r-008	Sedimentation Risk Index 40																																																																		
<u>Common:</u> 1.0mi NE of Danleys Crossroads <u>Drainage:</u> Yellow River <u>GPS:</u> 31.42209700,-86.182725070 <u>Land owner:</u> G.A. Lindsey	<u>County:</u> Coffee <u>PLSS (T-R-S):</u> 5N-19-07 <u>Parcel No.:</u> 1 <u>Road Name:</u> CR 374	<u>State:</u> Alabama																																																																		
 																																																																				
Crossing Structure: DS		DS																																																																		
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SRI Total	Medium Risk	44																																																																		
Additional Site Features <p><u>Crossing Type and Quantity:</u> Culvert,2 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 7,8,21,22 <u>Rt Approach Prism Fill:</u> 0.15in <u>Lt Approach Prism Fill:</u> 0.15in</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Feature</th> <th style="text-align: left;">Within Range</th> <th style="text-align: left;">Descriptive Field</th> </tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon Spawning</td><td>No</td><td>N/A</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Sturgeon Spawning	No	N/A	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																													
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Notes: Garbage DS; culverts coming from 2 different angles US.

Restoration Recommendations: TBD

Unnamed tributary

co-1103-r-010

Sedimentation Risk Index
40

Common: 1.0mi NW of Friendship
Drainage: Lightwood Knot GPS: 31.408498105,-86.221840842
Land owner: Miriam Barlow East, James & Dorothy BirgeWest

County: Covington
PLSS (T-R-S): 5N-18E-14
Parcel No.: 1,2
Road Name: Barlow Rd

State: Alabama



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	40

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Reinforced Concrete
Soil Types: MBA,OrB,OrC,OrE,,TrB,TrD
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.75in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Sturgeon Spawning	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Mostly bare ditches and outlets, bank alteration influencing score.

Mill Creek

co-1103-r-011

Sedimentation Risk Index
40

Common: 1.71mi NW of Friendship
Drainage: Lightwood Knot GPS: 31.426644644,-86.217687921
Land owner: Levon Pitts

County: Covington
PLSS (T-R-S): 5N-18E-2
Parcel No.: 8
Road Name: Fox Den Rd

State: Alabama



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	40



Additional Site Features	
<u>Crossing Type and Quantity:</u>	Bridge,1
<u>Crossing Materials:</u>	Reinforced Concrete
<u>Soil Types:</u>	MBA,OrE,TrB,TrD
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Sturgeon Spawning	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Pigpen Creek

cr-1102-r-012

Sedimentation Risk Index
42

Common: 3.6mi SW of Pine Level
Drainage: Yellow River GPS: 31.458812845,-86.244201161
Land owner: Doris Mitchell Halacker

County: Crenshaw
PLSS (T-R-S): 6N-18E-28
Parcel No.: 9
Road Name: Settlement Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Rip Rap	1
<i>Upstream Lt Ditch</i>	Rip Rap	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Rip Rap	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	42

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Reinforced Concrete
Soil Types: BbA,DoB,NsE,OrB,TaB
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB (OTHER)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Lightwood Knot Creek

co-1103-r-018

Sedimentation Risk Index

44

Common: 3.5mi SW of Friendship
Drainage: Yellow River GPS: 31.372027985,-86.253615927
Land owner: Emily Carr -US, James Carr -DS

County: Covington
PLSS (T-R-S): 5N-18E-28
Parcel No.: 1.04, 1
Road Name: Union Grove Rd

State: Alabama



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Reinforced Concrete
Soil Types: BbA, TaC
Rt Approach Prism Fill: 0.05in
Lt Approach Prism Fill: 0.05in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Blaze Branch

cr-1103-r-006

Sedimentation Risk Index
44

Common: 2.18mi SW of Pine Level
Drainage: Lightwood Knot GPS: 31.451029824,-86.209858693
Land owner: John E Bozeman

County: Crenshaw
PLSS (T-R-S): 6N-18E-36
Parcel No.: 3
Road Name: Morgan Mill Creek Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Reinforced Concrete
Soil Types: BbA,NsE,TaB
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ PASTURE/HAY, EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Well vegetated buffers. Bare ditches influencing score, with moderate erodible soils.

Jolly Creek

co-1102-r-015

Sedimentation Risk Index
46

Common: 3.2mi SE of Five Points
Drainage: Lightwood Knot GPS: 31.433975, -86.249119
Land owner: B & N Kilpatrick

County: Covington
PLSS (T-R-S): 5N-18E-4
Parcel No.: 2
Road Name: Bell Crossing Rd



Crossing Structure: DS



US



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Sturgeon Spawning	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Reinforced Concrete
Soil Types: FuB,LuB,MBA,OrB,OrC,OrE,TrD
Rt Approach Prism Fill: 0.10in
Lt Approach Prism Fill: 0.10in

Notes: Loaded with clay.

Unnamed tributary		co-1104-r-002	Sedimentation Risk Index 46																																																																																								
<u>Common:</u> 2.8mi NW of Friendship	<u>County:</u> Covington	<u>State:</u> Alabama																																																																																									
<u>Drainage:</u> Lightwood Knot <u>GPS:</u> 31.407215305,-86.253754894	<u>PLSS (T-R-S):</u> 5N-18E-16																																																																																										
<u>Land owner:</u> Hillary Brannen & Nancy Chalker	<u>Parcel No.:</u> 1																																																																																										
	<u>Road Name:</u> HDC Rd																																																																																										
																																																																																											
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Notes: Rip rap in downstream creating partial fish passage barrier.

Unnamed tributary		co-1104-r-001	Sedimentation Risk Index 48																																																																																								
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<u>Land owner:</u> Edward & Janie Clark		<u>Parcel No.:</u> 3																																																																																									
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		Sturgeon C.H.	No	N/A																																																																																							

Notes: Road is primary sediment source.

Lightwood Knot Creek

co-1102-r-013

Sedimentation Risk Index
50

Common: 4.4mi E of Five Points
Drainage: Yellow River GPS: 31.440008403,-86.229630273
Land owner: H&MM North, Willis Powell South

County: Covington
PLSS (T-R-S): 5N-18E-3
Parcel No.: 1.01, 1
Road Name: Hudson Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
SRI Total	Low Risk	50

Additional Site Features

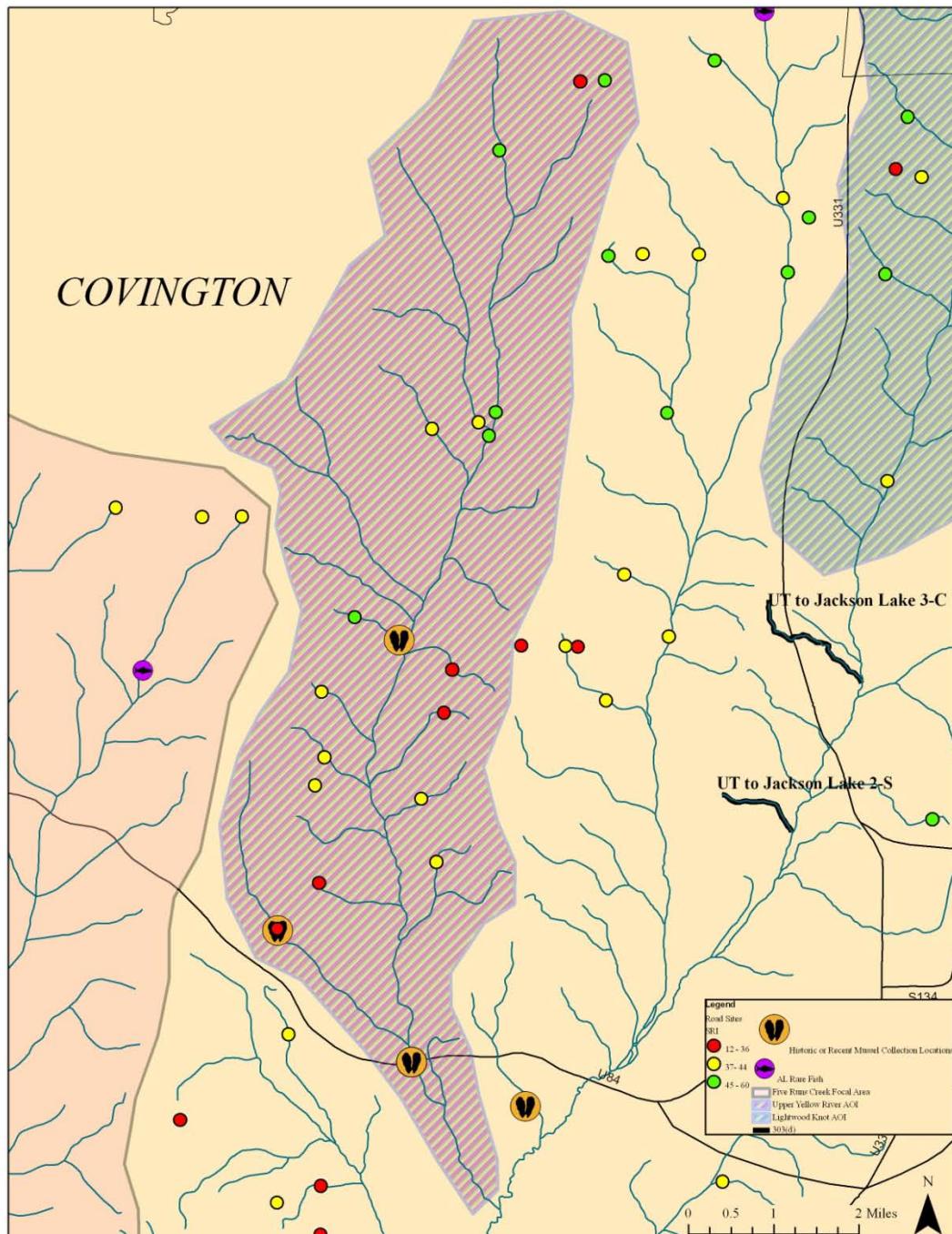
Crossing Type and Quantity: Bridge,1
Crossing Materials: Reinforced Concrete
Soil Types: MBA,OrE,TrB,TrD
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Appendix K. Upper Yellow River Area of Interest. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



Unnamed tributary

co-1029-r-010

Sedimentation Risk Index
24

Common: 12.4mi NE of Andalusia
Drainage: Yellow River GPS: 31.417385034, -86.315982289
Land owner: JJ & Agnes Guy -US, Clayton Floyd -DS

County: Covington
PLSS (T-R-S): 5N-17E-11
Parcel No.: 15; 14
Road Name: Oliver Rd



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	24

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Unknown
Soil Types: CdC,DmB,EsC,MBA,OrB,OrC
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Buried culvert. Drainage from US pond, runs down ditch then crosses under the road.

Sasser Branch

co-1027-r-003

Sedimentation Risk Index

30

Common: 6.2mi NW of Opp
Drainage: Yellow River GPS: 31.333167504, -86.341881837
Land owner: Dallas Henderson -DS, C&L Caldwell -US

County: Covington State: Alabama
PLSS (T-R-S): 4N-17E-10
Parcel No.: 5; 3
Road Name: Sasser Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	30



Additional Site Features	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	CdB,CdC,FuB,MBA,OrE
<u>Rt Approach Prism Fill:</u>	1.25in
<u>Lt Approach Prism Fill:</u>	1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Fencing across US. High velocity flow. Undersized culvert.

Unnamed tributary

co-1027-r-004

Sedimentation Risk Index
32

Common: 6.4mi NW of Opp
Drainage: Yellow River GPS: 31.340281813, -86.340114564
Land owner: Dallas Henderson -DS, B&J Sasser -US

County: Covington State: Alabama
PLSS (T-R-S): 4N-17E-3
Parcel No.: 8; 28
Road Name: Sasser Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	32

Additional Site Features

Crossing Type and Quantity: Culvert,2
Crossing Materials: Metal
Soil Types: BoB,CdB,CdC,LuB,MBA,OrC,OrE
Rt Approach Prism Fill: 0.75in
Lt Approach Prism Fill: 0.75in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Recently ponded by land owner (Personal communication).

Unnamed tributary

co-1102-r-002

Sedimentation Risk Index

32

Common: 0.6mi W of Five Points
Drainage: Yellow River GPS: 31.440360781,-86.314030647
Land owner: B&N Moore- US & G Hammett - DS

County: Covington State: Alabama
PLSS (T-R-S): 6N-17E-35
Parcel No.: 14.2
Road Name: Driver Rd

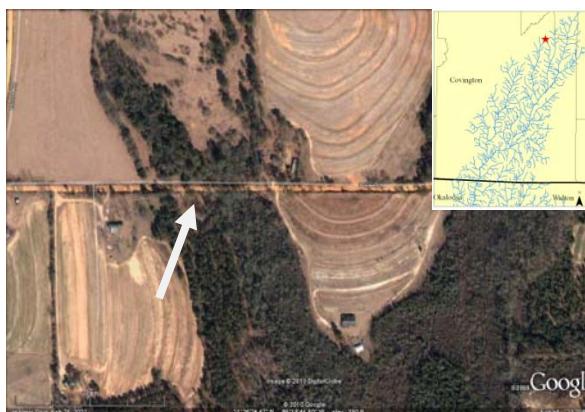


Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	F	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	32



Additional Site Features		
<u>Crossing Type and Quantity:</u>	Culvert,1	
<u>Crossing Materials:</u>	Synthetic	
<u>Soil Types:</u>	BoB,CdC,DmB,MBA,OrB,OrC,OrE	
<u>Rt Approach Prism Fill:</u>	0.25in	
<u>Lt Approach Prism Fill:</u>	0.25in	

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB (OTHER)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS highly channelized.

Hollis Creek

co-0907-r-001

Sedimentation Risk Index
36

Common: 7.1mi W of Opp
Drainage: Yellow River GPS: 31.296459097, -86.375007419
Land owner: Vera Worley & Norma King Heris -US, Stan Lanzo -DS

County: Covington
PLSS (T-R-S): 4N-17E-20
Parcel No.: 5; 5.01
Road Name: Houston Crossing

State: Alabama



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Reinforced Concrete
Soil Types: CdC,FuB,LuB,MBA,OrB,OrC,OrE
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	Yes	SOUTHERN KIDNEYSHELL
Sturgeon C.H.	No	N/A

Notes: Railroad crossing directly DS

Unnamed tributary

co-0907-r-002

Sedimentation Risk Index
36

Common: 6.7mi W of Opp
Drainage: Yellow River GPS: 31.304222211, -86.366880548
Land owner: Ralph & Annie Tillman -US, Terry Taylor -DS

County: Covington
PLSS (T-R-S): 4N-17E-20
Parcel No.: 2;6
Road Name: Houston Crossing



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	A	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: CdB,CdC,FuB,MBA
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ OPEN WATER (FRESH)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Bear Branch

co-0907-r-005

Sedimentation Risk Index
38

Common: 7.5mi NW of Opp
Drainage: Yellow River GPS: 31.336845526, -86.366109608
Land owner: Kelly & Joan Campbell -US, Smith Family Tr. -DS

County: Covington
PLSS (T-R-S): 4N-17E-5
Parcel No.: 1.03; 12
Road Name: Old Dragstrip Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	38

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: BoC,CdB,CdC,FuB,MBA,OrC
Rt Approach Prism Fill: 0.2in
Lt Approach Prism Fill: 0.2in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rip rap in stream bed.

Unnamed tributary	co-0907-r-004	Sedimentation Risk Index 40																																																																																							
<u>Common:</u> 7.2mi NW of Opp <u>Drainage:</u> Yellow River <u>GPS:</u> 31.325623005, 31.325623005 <u>Land owner:</u> Freida Mancil-US, T. Burnell & W. Wells -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 4N-17E-8 <u>Parcel No.:</u> 6; 5 <u>Road Name:</u> Old Dragstrip Rd	<u>State:</u> Alabama																																																																																							
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<i>Soil K Factor</i>	<0.20	5																																																																																							
<i>Upstream Rt Outlet</i>	Vegetated	1																																																																																							
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SRI Total	Medium Risk	40																																																																																							
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Land Use/ Cover	Yes	N/A EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MOD																																																																																							
Candidate Mussels	No	N/A																																																																																							
Sturgeon C.H.	No	N/A																																																																																							

Notes: Trash in outlets.

Unnamed tributary

co-0907-r-003

Sedimentation Risk Index
42

Common: 7.1mi NW of Opp
Drainage: Yellow River GPS: 31.320859074, -86.367395487
Land owner: Bonnie Worley, Tr. -US, Roy Jr. & Sybil Weaver -DS

County: Covington
PLSS (T-R-S): 4N-17E-17
Parcel No.: 2; 1
Road Name: Old Dragstrip Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	42

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: PVC
Soil Types: CdB,CdC,FuB,MBA,OrB,OrC
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Excessive erosion over culvert.

Unnamed tributary	co-1027-r-002	Sedimentation Risk Index 42																																																																		
<u>Common:</u> 5.9mi NW of Opp <u>Drainage:</u> Yellow River <u>GPS:</u> 31.318371094, -86.346232084 <u>Land owner:</u> Kenneth & Martha Ward -DS, J&C Hawkins -US	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 4N-17E-16/15 <u>Parcel No.:</u> 1; 4.01 <u>Road Name:</u> Homer Smith Rd	<u>State:</u> Alabama																																																																		
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Additional Site Features <p> <u>Crossing Type and Quantity:</u> Bridge, 1 <u>Crossing Materials:</u> Wood <u>Soil Types:</u> CdB,CdC,FuB,MBA,OrC,OrE <u>Rt Approach Prism Fill:</u> 1.0in <u>Lt Approach Prism Fill:</u> 0.75in </p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Feature</th> <th style="text-align: left;">Within Range</th> <th style="text-align: left;">Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Rare and Imperiled</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Land Use/ Cover</td> <td>Yes</td> <td>N/A/ PASTURE/HAY</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A/ PASTURE/HAY	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																														
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Sturgeon C.H.	No	N/A																																																																		

Notes: None

Faegins Creek

co-1029-r-003

Sedimentation Risk Index
42

Common: 10.1mi NE of Andalusia
Drainage: Yellow River GPS: 31.382492870, -86.334532485
Land owner: Tray Creane & Brett Riley

County: Covington
PLSS (T-R-S): 5N-17E-22
Parcel No.: 4
Road Name: Lord Hill Rd

State: Alabama



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	D	1
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
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<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	42

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: MBA,OrC,OrE,TrD
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A PASTURE/HAY, EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MOD
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Close proximity to YR main stem.

Unnamed tributary	co-1027-r-001	<i>Sedimentation Risk Index</i> 42																																																																		
<u>Common:</u> 5.5mi NW of Opp <u>Drainage:</u> Yellow River <u>GPS:</u> 31.307672065, -86.34341173 <u>Land owner:</u> L & C Smith -US West, B&T Turner -US East, Jaunice Dredging -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 4N-17E-15 <u>Parcel No.:</u> 8.01; 10.04; 6.03 <u>Road Name:</u> Homer Smith Rd	<u>State:</u> Alabama																																																																		
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Additional Site Features <p> <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> BnB,CdB,CdC,MBA,OrB,OrC,OrE <u>Rt Approach Prism Fill:</u> 0.25in <u>Lt Approach Prism Fill:</u> 0.1in </p>	Feature	Within Range																																																																		
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Notes: None

Unnamed tributary

co-1029-r-002

Sedimentation Risk Index
44

Common: 9.6mi NE of Andalusia
Drainage: Yellow River GPS: 31.381445735, -86.343918727
Land owner: Douglas & Mary Brooks -US, James & Jeannette Odom - DS

County: Covington State: Alabama
PLSS (T-R-S): 5N-17E-22
Parcel No.: 38; 3
Road Name: Southwind Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44



Additional Site Features	
<i>Crossing Type and Quantity:</i>	Bridge, 1
<i>Crossing Materials:</i>	Wood
<i>Soil Types:</i>	CdC,DmB,FoA,LuB,MBA,OrB,OrC
<i>Rt Approach Prism Fill:</i>	0.1in
<i>Lt Approach Prism Fill:</i>	0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ SUCCESSIONAL SHRUB/SCRUB (OTHER)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary		co-1102-r-003	Sedimentation Risk Index 46																																																																		
<u>Common:</u> 0.3mi W of Five Points <u>Drainage:</u> Yellow River <u>GPS:</u> 31.440543141,-86.309126676 <u>Land owner:</u> Bessie Langford North, J & A Gray South	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 6N-17E-36 <u>Parcel No.:</u> 16, Unknown <u>Road Name:</u> Driver Rd	<u>State:</u> Alabama																																																																			
																																																																					
Crossing Structure: US		US																																																																			
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Risk Factor	Ranking	Score																																																																			
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Additional Site Features <u>Crossing Type and Quantity:</u> Bridge,1 <u>Crossing Materials:</u> Wood <u>Soil Types:</u> BoB,CdC,DmB,MBA,OrB,OrC,OrE <u>Rt Approach Prism Fill:</u> 0.25in <u>Lt Approach Prism Fill:</u> 1.00in		<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>No</td><td>N/A</td></tr> <tr><td>Land Use/ Cover</td><td>Yes</td><td>N/A/ EAST GULF COASTAL PLAIN SMAILL STREAM AND RIVER FLOODPLAIN FOREST</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>		Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SMAILL STREAM AND RIVER FLOODPLAIN FOREST	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																													
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Sturgeon C.H.	No	N/A																																																																			

Notes: Surface oils and anaerobic smell

Yellow River

co-1102-r-001

Sedimentation Risk Index
48

Common: 1.8mi SW of Five Points
Drainage: Blackwater Bay GPS: 31.428717623,-86.330150140
Land owner: Royce & Barbara Harrison-US, W&T Mitchell –DS East, Lucky Hack – DS West

County: Covington
PLSS (T-R-S): 6N-17E-35
Parcel No.: Unknown
Road Name: Prestwood Rd

State: Alabama



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Low Risk	48

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Reinforced Concrete
Soil Types: MBA,OrB,OrC,OrE,TrD
Rt Approach Prism Fill: 0.10in
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ PASTURE/HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Yellow River

co-1029-r-001

Sedimentation Risk Index
50

Common: 10.2mi NE of Andalusia
Drainage: Blackwater Bay GPS: 31.380043682, -86.332556256
Land owner: Billy Henderson -US, Doris Henderson -DS

County: Covington
PLSS (T-R-S): 5N-17E-27
Parcel No.: 1.01; 1
Road Name: Southwind Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Improved Drainage System	5
SRI Total	Low Risk	50

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Reinforced Concrete
Soil Types: MBA,OrB,OrC,OrE,TrD
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Public access path leading to DS LT outlet.

Unnamed tributary		co-1029-r-005	Sedimentation Risk Index 50
<u>Common:</u>	7.8mi NE of Andalusia		
<u>Drainage:</u>	Yellow River <u>GPS:</u> 31.349427806, -86.359341040		
<u>Land owner:</u>	Smith Family, Tr. -US, W.H. Lola Owens-DS		
<u>County:</u> Covington			<u>State:</u> Alabama
<u>PLSS (T-R-S):</u> 4N-17E-4			
<u>Parcel No.:</u> 2; 3.41			
<u>Road Name:</u> E.J. Ready Rd			
			
Crossing Structure: DS			US
Risk Factor	Ranking	Score	
<i>US Channel Morph</i>	E	5	
<i>DS Channel Morph</i>	E	5	
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3	
<i>Upstream Skew Angle</i>	<5°	5	
<i>Crossing fill condition</i>	Good/Vegetated	5	
<i>Inlet/Outlet Condition</i>	No Impairment	5	
<i>Road Approach Material</i>	All Aggregate	5	
<i>Potential Eroded Volume Mean</i>	<21 y³	5	
<i>Approach Slope Mean</i>	>4%	1	
<i>Soil K Factor</i>	<0.20	5	
<i>Upstream Rt Outlet</i>	Vegetated	1	
<i>Upstream Lt Outlet</i>	Vegetated	1	
<i>Upstream Rt Ditch</i>	Bare soil	0	
<i>Upstream Lt Ditch</i>	Bare soil	0	
<i>Downstream Rt Outlet</i>	Vegetated	1	
<i>Downstream Lt Outlet</i>	Vegetated	1	
<i>Downstream Rt Ditch</i>	Bare soil	0	
<i>Downstream Lt Ditch</i>	Bare soil	0	
<i>Outlet Total</i>	Improved Outlet System	5	
<i>Ditches Total</i>	Unimproved Drainage System	1	
SRI Total	Low Risk	50	
Additional Site Features			
<u>Crossing Type and Quantity:</u>	Bridge, 1		
<u>Crossing Materials:</u>	Reinforced Concrete		
<u>Soil Types:</u>	CdB,MDB,OrB,OrC,OrE		
<u>Rt Approach Prism Fill:</u>	0.25in		
<u>Lt Approach Prism Fill:</u>	0.25in		
			
Feature	Within Range	Descriptive Field	
303(d)	No	N/A	
Wetland Species	No	N/A	
Rare and Imperiled	No	N/A	
Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SOUTHERN MESIC SLOPE FOREST	
Candidate Mussels	No	N/A	
Sturgeon C.H.	No	N/A	

Notes: None

Yellow River

co-1029-r-004

Sedimentation Risk Index
52

Common: 10.4mi NE of Andalusia
Drainage: Blackwater Bay GPS: 31.384186700, -86.331219659
Land owner: Billy Henderson & Rite Odom

County: Covington State: Alabama
PLSS (T-R-S): 5N-17E-22
Parcel No.: 5
Road Name: Lord Hill Rd



Crossing Structure: US



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	52

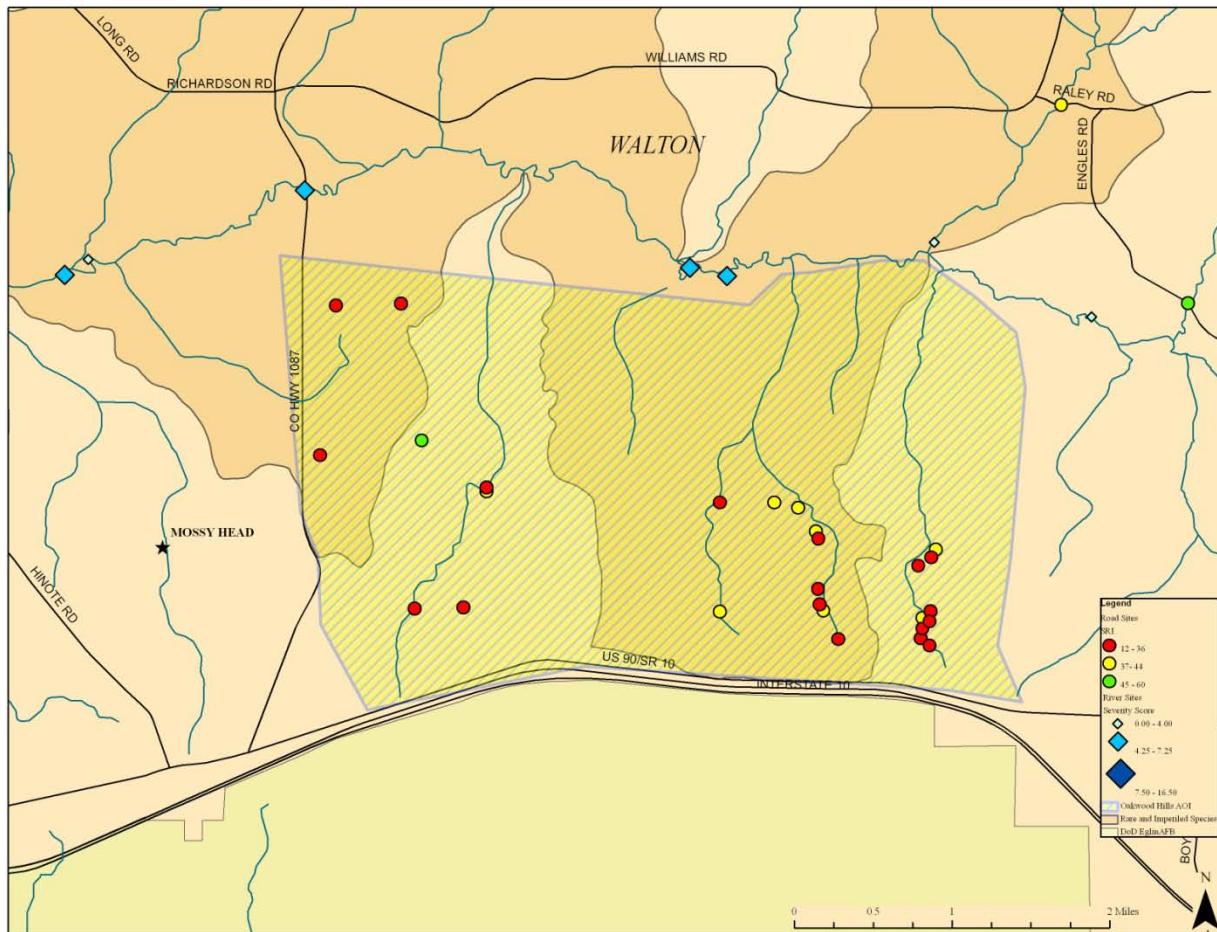
Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Reinforced Concrete
Soil Types: Mba,OrC,OrE,TrD
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.15in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A PASTURE/HAY, DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Appendix L. Oakwood Hills Area of Interest. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



Battle Creek

wa-0707-r-002

Sedimentation Risk Index
22

Common: 2.3mi NE of Mossy Head
Drainage: Shoal River GPS: 30.767642, -86.288075
Land owner: Anthony & Deborah Farrantello-DS, Marie Berry-US

County: Walton State: Florida
PLSS(T-R-S): 3N-20-07
Parcel No.: 21.0011;020.0010
Road Name: Unpaved road off Squire Way



Crossing Structure: US



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	D	1
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	22

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 8,17,31,33,34
Rt Approach Prism Fill: 6.0in
Lt Approach Prism Fill: 5.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	VACANT RESIDENTIAL/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Not sure if this is a county maintained road.

Unnamed tributary

wa-0707-r-005

Sedimentation Risk Index
22

Common: 2.0mi NE of Mossy Head
Drainage: Adam's Mill Creek GPS: 30.770678, -86.305817
Land owner: Richard & Monica Mason-US, Derek & Byron Rawles-DS

County: Walton
PLSS(T-R-S): 3N-21-12
Parcel No.: 2.021; 2.020
Road Name: Mill Creek Dr.



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	F	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	22

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 8,33,34
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 1.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, GOLDSTRIPE DARTER, IRONCOLOR SHINER
Land Use/ Cover	Yes	PARCELS WITH NO VALUES/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Metal culvert buried into the woods DS- not pictured. Road Closed due to extreme erosion

Unnamed tributary	wa-0707-r-007	Sedimentation Risk Index 30																																																																		
<u>Common:</u> 3.1mi NE of Mossy Head <u>Drainage:</u> Adams Mill Creek <u>GPS:</u> 30.784610 <u>Land owner:</u> Donald & Sharon Richardson-US, William & Amaryllis Tinsley-DS	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 3N-21-01 <u>Parcel No.:</u> 2.002, 1.002 <u>Road Name:</u> Adams Branch Rd	<u>State:</u> Florida																																																																		
																																																																				
Crossing Structure: US	US																																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Risk Factor</th> <th style="text-align: left;">Ranking</th> <th style="text-align: right;">Score</th> </tr> </thead> <tbody> <tr> <td><i>US Channel Morph</i></td> <td>WETLAND</td> <td style="text-align: right;">5</td> </tr> <tr> <td><i>DS Channel Morph</i></td> <td>DA</td> <td style="text-align: right;">3</td> </tr> <tr> <td><i>DS Bank Alteration</i></td> <td>MINOR/PARTIAL</td> <td style="text-align: right;">3</td> </tr> <tr> <td><i>Upstream Skew Angle</i></td> <td><5°</td> <td style="text-align: right;">5</td> </tr> <tr> <td><i>Crossing fill condition</i></td> <td>Poor/Bare soil</td> <td style="text-align: right;">1</td> </tr> <tr> <td><i>Inlet/Outlet Condition</i></td> <td>Blocked</td> <td style="text-align: right;">1</td> </tr> <tr> <td><i>Road Approach Material</i></td> <td>All Native Soil</td> <td style="text-align: right;">1</td> </tr> <tr> <td><i>Potential Eroded Volume Mean</i></td> <td>>40 y³</td> <td style="text-align: right;">1</td> </tr> <tr> <td><i>Approach Slope Mean</i></td> <td>>4%</td> <td style="text-align: right;">1</td> </tr> <tr> <td><i>Soil K Factor</i></td> <td><0.20</td> <td style="text-align: right;">5</td> </tr> <tr> <td><i>Upstream Rt Outlet</i></td> <td>Bare soil</td> <td style="text-align: right;">0</td> </tr> <tr> <td><i>Upstream Lt Outlet</i></td> <td>Bare soil</td> <td style="text-align: right;">0</td> </tr> <tr> <td><i>Upstream Rt Ditch</i></td> <td>Bare soil</td> <td style="text-align: right;">0</td> </tr> <tr> <td><i>Upstream Lt Ditch</i></td> <td>Bare soil</td> <td style="text-align: right;">0</td> </tr> <tr> <td><i>Downstream Rt Outlet</i></td> <td>Vegetated</td> <td style="text-align: right;">1</td> </tr> <tr> <td><i>Downstream Lt Outlet</i></td> <td>Vegetated</td> <td style="text-align: right;">1</td> </tr> <tr> <td><i>Downstream Rt Ditch</i></td> <td>Bare soil</td> <td style="text-align: right;">0</td> </tr> <tr> <td><i>Downstream Lt Ditch</i></td> <td>Bare soil</td> <td style="text-align: right;">0</td> </tr> <tr> <td><i>Outlet Total</i></td> <td>Partially Improved Outlet System</td> <td style="text-align: right;">3</td> </tr> <tr> <td><i>Ditches Total</i></td> <td>Unimproved Drainage System</td> <td style="text-align: right;">1</td> </tr> <tr> <td>SRI Total</td> <td>High Risk</td> <td style="text-align: right;">30</td> </tr> </tbody> </table>	Risk Factor	Ranking	Score	<i>US Channel Morph</i>	WETLAND	5	<i>DS Channel Morph</i>	DA	3	<i>DS Bank Alteration</i>	MINOR/PARTIAL	3	<i>Upstream Skew Angle</i>	<5°	5	<i>Crossing fill condition</i>	Poor/Bare soil	1	<i>Inlet/Outlet Condition</i>	Blocked	1	<i>Road Approach Material</i>	All Native Soil	1	<i>Potential Eroded Volume Mean</i>	>40 y³	1	<i>Approach Slope Mean</i>	>4%	1	<i>Soil K Factor</i>	<0.20	5	<i>Upstream Rt Outlet</i>	Bare soil	0	<i>Upstream Lt Outlet</i>	Bare soil	0	<i>Upstream Rt Ditch</i>	Bare soil	0	<i>Upstream Lt Ditch</i>	Bare soil	0	<i>Downstream Rt Outlet</i>	Vegetated	1	<i>Downstream Lt Outlet</i>	Vegetated	1	<i>Downstream Rt Ditch</i>	Bare soil	0	<i>Downstream Lt Ditch</i>	Bare soil	0	<i>Outlet Total</i>	Partially Improved Outlet System	3	<i>Ditches Total</i>	Unimproved Drainage System	1	SRI Total	High Risk	30		
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> PVC <u>Soil Types:</u> 13,14,15,31 <u>Rt Approach Prism Fill:</u> 1.0in <u>Lt Approach Prism Fill:</u> 1.0in	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H.	Within Range No No Yes Yes No No	Descriptive Field N/A N/A SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER PARCELS WITH NO VALUES/WETLAND FORESTED MIX N/A N/A																																																																	

Notes: Fencing across US.

Unnamed tributary

wa-0716-r-009

Sedimentation Risk Index
26

Common: 3.5mi NE of Mossy Head
Drainage: Shoal River GPS: 30.766093, -86.263208
Land owner: David Caldwell & Paul Wolfe

County: Walton
PLSS(T-R-S): 3N-20-08-28000
Parcel No.: 4.0180
Road Name: Trout Dr

State: Florida



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	26

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 8,17,18,33
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPED DARTER
Land Use/ Cover	Yes	PARCELS WITH NO VALUES/ RESERVOIRS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: 2 culverts discharging in different directions- also, different materials and sizes.

Unnamed tributary	wa-0707-r-006	Sedimentation Risk Index 30																																																																																				
<u>Common:</u> 2.9mi NE of Mossy Head <u>Drainage:</u> Adams Mill Creek <u>GPS:</u> 30.784486, -86.304017 <u>Land owner:</u> Wax Aero Acres LLC- US, Mildred & James Courtney-DS	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 3N-21-01 <u>Parcel No.:</u> 2; 1 <u>Road Name:</u> Adams Branch Rd	<u>State:</u> Florida																																																																																				
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Candidate Mussels	No	N/A																																																																																				
Sturgeon C.H.	No	N/A																																																																																				

Notes: None

Gum Creek

wa-0727-r-006

Sedimentation Risk Index
32

Common: 4.5mi E of Mossy Head
Drainage: Shoal River GPS: 30.752828298, -86.240921785
Land owner: Capital Funding Enterprises

County: Walton
PLSS (T-R-S): 3N-20-16-28060
Parcel No.: 7; 4.80350
Road Name: Blue Ridge Blvd



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Other	0
<i>Upstream Lt Outlet</i>	Other	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Other	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	32

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 8,17,18,33,36
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Failing BMPs DS. DS Drop off.

Unnamed tributary

wa-0716-r-002

Sedimentation Risk Index
32

Common: 3.9mi E of Mossy Head
Drainage: Shoal River GPS: 30.753471,-86.250669
Land owner: Claude Santer- US East, Ruth G Davenport Trust-US
 West, Chester & Louise Chambers-DS

County: Walton State: Florida
PLSS(T-R-S): 3N-20-16-28060
Parcel No.: 24.0080; 24.0060; 25.0010
Road Name: W. Dogwood Rd



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Other	0
<i>Upstream Lt Outlet</i>	Other	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Other	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	32

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: PVC
Soil Types: 17,18
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPED DARTER
Land Use/ Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: BMPs installed

Unnamed tributary	wa-0707-r-004	Sedimentation Risk Index 40																																																																																							
<u>Common:</u> 1.7mi NE of Mossy Head <u>Drainage:</u> Battle Creek <u>GPS:</u> 30.756608, -86.290619 <u>Land owner:</u> Kelly Wise-US, Raymond & Sara Sinclair-DS	<u>County:</u> Walton <u>PLSS:</u> 18-3N-20 <u>Parcel No.:</u> 16.007, 16.001 <u>Road Name:</u> Unknown road- power line crossing																																																																																								
 Crossing Structure: Rt Approach	 US																																																																																								
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Notes: ATV trail

Unnamed tributary	wa-0727-r-002	Sedimentation Risk Index 32																																																																																							
<u>Common:</u> 4.6mi E of Mossy Head <u>Drainage:</u> Gum Creek <u>GPS:</u> 30.760919817, 30.760919817 <u>Land owner:</u> Grabers Excavating- DS, David and Dorene McDonald-US	<u>County:</u> Walton <u>PLSS (T-R-S):</u> 3N-20-16-28060 <u>Parcel No.:</u> 07.70170; 06.80700 <u>Road Name:</u> Blue Ridge Blvd	<u>State:</u> Florida																																																																																							
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Sturgeon C.H.	No	N/A																																																																																							

Notes: US culvert too high- all flow cannot reach its inlet.

Gum Creek

wa-0716-r-010

Sedimentation Risk Index
26

Common: 4.4mi E of Mossy Head
Drainage: Shoal River GPS: 30.753482, -86.241856
Land owner: Margaret Rocque-US, James & Janice Shackelford-DS

County: Walton
PLSS(T-R-S): 3N-20-16-28060
Parcel No.: 48.0160; 49.0340
Road Name: E Dogwood Dr



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Other	0
<i>Upstream Lt Outlet</i>	Other	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Other	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 17,18
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: BMPs

Gum Creek

wa-0716-r-011

Sedimentation Risk Index
36

Common: 4.4mi NE of Mossy Head
Drainage: Shoal River GPS: 30.754374, -86.241669
Land owner: James & Janice Shackelford-US, Antonio Chua

County: Walton
PLSS(T-R-S): 3N-20-16-28060
Parcel No.: 9.0160; 50.0340
Road Name: E Larkspur Ave



Crossing Structure: US



US



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 17,18
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 0.25in

Notes: Poor drainage

Unnamed tributary

wa-0727-r-004b

Sedimentation Risk Index
34

Common: 4.5mi E of Mossy Head
Drainage: Gum Creek GPS: 30.755019, -86.240897
Land owner: Vicki and Michael Dekoninck-US, Thelma Adams-DS

County: Walton
PLSS (T-R-S): 3N-20-16-28060
Parcel No.: 7.10050;6.80010
Road Name: Blue Ridge Blvd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Other	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Cuvert,1
Crossing Materials: Metal
Soil Types: 8,17,18,33,36
Rt Approach Prism Fill: 0.100
Lt Approach Prism Fill: 0.250



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ MDC-INACTIVE LAND WITH STREET PATTERNS BUT WITHOUT STRUCTURES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS BMP fill.

Unnamed tributary

wa-0727-r-004a

Sedimentation Risk Index
34

Common: 4.5mi E of Mossy Head
Drainage: Gum Creek GPS: 30.755967537, -86.240822602
Land owner: Roland & Judith Joachim-US, Ramon Trelles-DS

County: Walton
PLSS (T-R-S): 3N-20-16-28060
Parcel No.: 7.20030; 6.80940
Road Name: Blue Ridge Blvd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Other	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
Outlet Total	Unimproved Outlet System	1
Ditches Total	Unimproved Drainage System	1
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 8,17,18,33,36
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ MDC-INACTIVE LAND WITH STREET PATTERNS BUT WITHOUT STRUCTURES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS drop off. BMPs installed.

Unnamed tributary

wa-0716-r-004

Sedimentation Risk Index
36

Common: 3.8mi NE of Mossy Head
Drainage: Shoal River GPS: 30.758112, -86.252781
Land owner: Helen Bright-US, Josh Graber & Kevin Millner-DS

County: Walton
PLSS(T-R-S): 3N-20-16-28060
Parcel No.: 9.0150; 25.0220
Road Name: Trout Rd

State: Florida



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Other	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 8,17,17,32
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPED DARTER
Land Use/ Cover	Yes	N/A/ MDC-INACTIVE LAND WITH STREET PATTERNS BUT WITHOUT STRUCTURES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: BMPs DS outlets

Unnamed tributary

wa-0716-r-003b

Sedimentation Risk Index

34

Common: 3.8mi NE of Mossy Head
Drainage: Shoal River GPS: 30.756684, -86.252618
Land owner: Helen Bright-US, Unknown DS

County: Walton
PLSS(T-R-S): 3N-20-16-28060
Parcel No.: 9.0150
Road Name: Trout Rd

State: Florida

Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

**Additional Site Features**

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 8,17,18,32
Rt Approach Prism Fill: 0.05in
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/ Cover	Yes	N/A / ELECTRICAL POWER TRANSMISSION LINES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Culvert barely visible

Unnamed tributary

wa-0707-r-003

Sedimentation Risk Index
34

Common: 1.7mi NE of Mossy Head
Drainage: Battle Creek
Land owner: Barbara Hall

GPS: 30.756542, -86.295839

County: Walton
PLSS: 13-3N-21
Parcel No.: 0D
Road Name: Donna Ln



Crossing Structure: US



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Reservoir Drain, 1
Crossing Materials: Metal
Soil Types: 33,34
Rt Approach Prism Fill: 2.0in
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	RESIDENTIAL/ ELECTRICAL POWER TRANSMISSION LINES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary	wa-0716-r-003a	Sedimentation Risk Index 38																																																																																							
<u>Common:</u> 3.8mi NE of Mossy Head <u>Drainage:</u> Shoal River <u>GPS:</u> 30.756112, -86.252238 <u>Land owner:</u> Helen Bright-US, James & Diane Love-DS	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 3N-20-16-28060 <u>Parcel No.:</u> 9.0150; 25.0150 <u>Road Name:</u> Trout Rd	<u>State:</u> Florida																																																																																							
																																																																																									
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Candidate Mussels	No	N/A																																																																																							
Sturgeon C.H.	No	N/A																																																																																							

Notes: BMPs installed

Unnamed tributary

wa-0727-r-003

Sedimentation Risk Index
34

Common: 4.6mi E of Mossy Head
Drainage: Gum Creek GPS: 30.760196481, -86.242056613
Land owner: Timothy Tindle-DS, Joann S. Bryan-US

County: Walton
PLSS (T-R-S): 3N-20-16-28060
Parcel No.: 7.60010; 07.50010
Road Name: Hollyhock Pl



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34
Additional Site Features		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	8,17,18,33,35	
<i>Rt Approach Prism Fill:</i>	0.1in	
<i>Lt Approach Prism Fill:</i>	0.25in	



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ UNIMPROVED PASTURES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Cannot see DS outlet. US pond is full of algal growth.

Unnamed tributary

wa-0716-r-006

Sedimentation Risk Index
34

Common: 3.9mi NE of Mossy Head
Drainage: Shoal River GPS: 30.762719, -86.252690
Land owner: Richard & Barbara Harrison-DS, Marjorie McLaughlin-US

County: Walton
PLSS(T-R-S): 3N-20-16-28060
Parcel No.: 16.0310; 015.0170
Road Name: Amaryllis Ln

State: Florida



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Unknown
Crossing Materials: Unknown
Soil Types: 8,17,18,33
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.15in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPED DARTER
Land Use/ Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Buried crossing structure- unknown. Fence across DS.

Unnamed tributary	wa-0716-r-001	Sedimentation Risk Index 38																																																																																							
<u>Common:</u> 3.2mi NE of Mossy Head <u>Drainage:</u> Shoal River <u>GPS:</u> 30.756063, -86.263258 <u>Land owner:</u> Reita Starkey-DS East, Douglas Englishman-DS West, John Luchka-US	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 3N-20-17-28080 <u>Parcel No.:</u> 8.0150; 34.0060; 35.0050 <u>Road Name:</u> Violet Rd	<u>State:</u> Florida																																																																																							
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Notes: Failing BMPs installed.

Unnamed tributary	wa-0716-r-005	Sedimentation Risk Index 38																																																																		
<u>Common:</u> 3.9mi NE of Mossy Head <u>Drainage:</u> Shoal River <u>GPS:</u> 30.763401, -86.252959 <u>Land owner:</u> Catoe Investments Inc- US, BLPW Roppe Inc-DS	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 3N-20-16-28060 <u>Parcel No.:</u> 16.0120; 025.0540 <u>Road Name:</u> Trout Rd	<u>State:</u> Florida																																																																		
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Notes: BMPs for fill and outlets-- failing. Outlets running over.

Gum Creek

wa-0727-r-005

Sedimentation Risk Index
40

Common: 4.4mi E of Mossy Head
Drainage: Shoal River GPS: 30.755371184, -86.241644652
Land owner: Estate and Gumersindo Rodriquez-DS, Fredrick W. Lauer-US

County: Walton
PLSS (T-R-S): 3N-20-16-28060
Parcel No.: 6.80020; 5.10290
Road Name: Blue Ridge Blvd



Crossing Structure: Lt Approach



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
Outlet Total	Unimproved Outlet System	1
Ditches Total	Unimproved Drainage System	1
SRI Total	Medium Risk	40

Additional Site Features

Crossing Type and Quantity: Ford, 1
Crossing Materials: Native Soil
Soil Types: 8,17,18,33,36
Rt Approach Prism Fill: 2.0in
Lt Approach Prism Fill: 2.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Potentially a culvert below flooding? Unimproved road, high prism fill.

Unnamed tributary	wa-0727-r-001	<i>Sedimentation Risk Index</i> 40																																																																		
<u>Common:</u> 4.6mi E of Mossy Head <u>Drainage:</u> Gum Creek <u>GPS:</u> 30.761649086, -86.240202153 <u>Land owner:</u> John Cruz Lopez-US, Johh L Wright/ Edwin Nauman as trustee-DS	<u>County:</u> Walton <u>PLSS (T-R-S):</u> 3N-20-16-28060 <u>Parcel No.:</u> 07.70180;06.80690; 06.80670 <u>Road Name:</u> Blue Ridge Rd	<u>State:</u> Florida																																																																		
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<i>Approach Slope Mean</i>	<2%	5																																																																		
<i>Soil K Factor</i>	<0.20	5																																																																		
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Notes: High gradient US

Unnamed tributary	wa-0716-r-007	Sedimentation Risk Index 40																																																																		
<u>Common:</u> 3.9mi NE of Mossy Head <u>Drainage:</u> Shoal River <u>Land owner:</u> Jon Payne	<u>GPS:</u> 30.765575, -86.254841	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 3N-20-09-28000 <u>Parcel No.:</u> 5.001 <u>Road Name:</u> Trout Rd																																																																		
																																																																				
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Notes: Outlets BMPs

Unnamed tributary	wa-0716-r-008	<i>Sedimentation Risk Index</i> 40																																																																																							
<u>Common:</u> 3.8mi NE of Mossy Head <u>Drainage:</u> Shoal River <u>GPS:</u> 30.766089, -86.257383 <u>Land owner:</u> Shannon Fugit-US, Glennon Kingsley-DS	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 3N-20-08-28000 <u>Parcel No.:</u> 4.0010; 4.0070 <u>Road Name:</u> Trout Dr	<u>State:</u> Florida																																																																																							
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Notes: Outlet BMPs

Battle Creek

wa-0707-r-001

Sedimentation Risk Index
42

Common: 2.3mi NE of Mossy Head
Drainage: Shoal River GPS: 30.767306, -86.288072
Land owner: Anthony & Deborah Farrantello-DS, Marie Berry-US

County: Walton State: Florida
PLSS(T-R-S): 3N-20-07
Parcel No.: 21.0011;020.0010
Road Name: Unpaved road off Squire Way



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	42

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 6,17,18,31,32,33,34
Rt Approach Prism Fill: 9.0in
Lt Approach Prism Fill: 3.5in



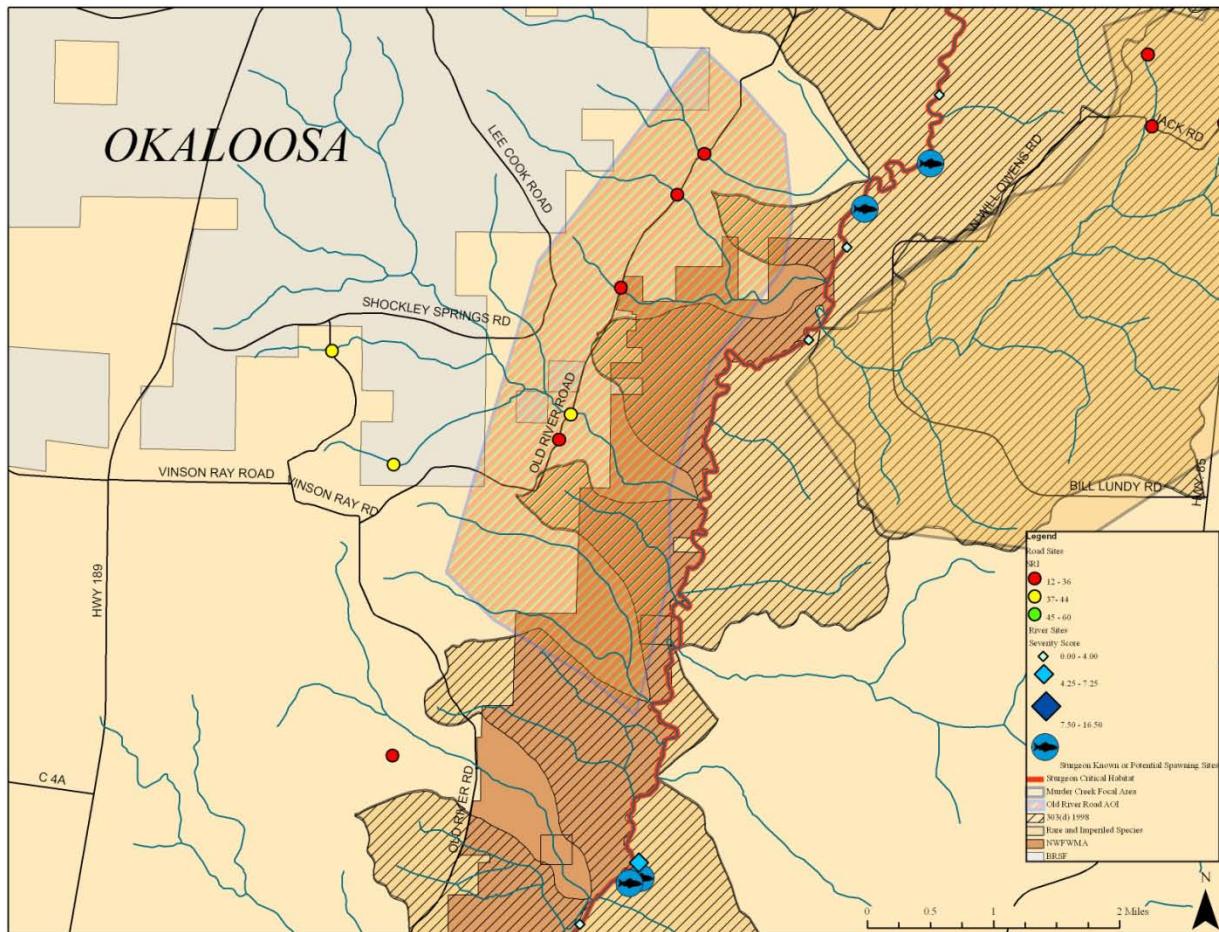
Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	VACANT RESIDENTIAL/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Not sure if this is a county-maintained road.

Unnamed tributary	wa-1005-r-006	Sedimentation Risk Index 46																																																																		
<u>Common:</u> 2.4mi NE of Mossy Head <u>Drainage:</u> Battle Creek <u>GPS:</u> 30.772010514, -86.294946031 <u>Land owner:</u> Joseph & Carolyn Guzzo-US, Pamela Jane Pillitteri-DS	<u>County:</u> Walton <u>PLSS (T-R-S):</u> 3N-21-12-37050 <u>Parcel No.:</u> 2.0060; 3.0020 <u>Road Name:</u> Red Oak Rd	<u>State:</u> Florida																																																																		
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert,1 <u>Crossing Materials:</u> Other <u>Soil Types:</u> 17,31,33 <u>Rt Approach Prism Fill:</u> 0.25in <u>Lt Approach Prism Fill:</u> 0.5in	Feature	Within Range																																																																		
	303(d)	No																																																																		
	Wetland Species	Yes																																																																		
	Rare and Imperiled	No																																																																		
	Land Use/ Cover	Yes																																																																		
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Notes: Unknown culvert material- buried. Water welling up from the ground.

Appendix M. Old River Road Area of Interest. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



Bear Branch

ok-0512-r-004

Sedimentation Risk Index
28

Common: 8.1m NW of Crestview
Drainage: Yellow River GPS: 30.876536310, -86.606435802
Land owner: NWFMD- DS, A.R. Cook- US

County: Okaloosa
PLSS(T-R-S): 4N-24-01
Parcel No.: 1, 1.001
Road Name: Old River Rd



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	28

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 23,36,37,38,39,41,43,44,52,56
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	OTHER/HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS outfall drop, rip rap in stream bed. Fencing across US inlet. Fish passage barrier.

Unnamed tributary	ok-0512-r-006	Sedimentation Risk Index 32																																																																		
<u>Common:</u> 7.2mi NW of Crestview <u>Drainage:</u> Deadfall Creek <u>Land owner:</u> Cheryl Mack	<u>GPS:</u> 30.859214, -86.614747	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 4N-24-11 <u>Parcel No.:</u> 3 <u>Road Name:</u> Old River Rd																																																																		
																																																																				
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SRI Total	High Risk	32																																																																		
Additional Site Features <p> <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 23,36,37,38,39,41,43,44,52,56 <u>Rt Approach Prism Fill:</u> 2.0in <u>Lt Approach Prism Fill:</u> 2.0in </p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Feature</th> <th style="text-align: left;">Within Range</th> <th style="text-align: left;">Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Rare and Imperiled</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Land Use/ Cover</td> <td>Yes</td> <td>N/A/ HARDWOOD CONIFEROUS-MIXED</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A/ HARDWOOD CONIFEROUS-MIXED	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																														
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Land Use/ Cover	Yes	N/A/ HARDWOOD CONIFEROUS-MIXED																																																																		
Candidate Mussels	No	N/A																																																																		
Sturgeon C.H.	No	N/A																																																																		

Notes: Fencing around US undersized culvert.

Reedy Creek

ok-0512-r-003

Sedimentation Risk Index
34

Common: 8.9mi N of Crestview
Drainage: Yellow River GPS: 30.887350, -86.598839
Land owner: Mark Davis-DS, Mary Keeling- US

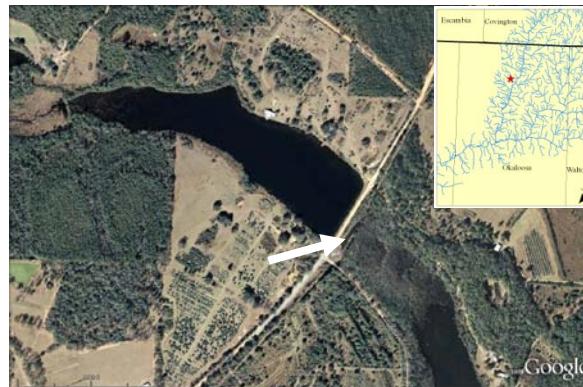
County: Okaloosa
PLSS(T-R-S): 5N-24-36
Parcel No.: 7.002, 7.0
Road Name: Old River Rd



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Culvert/Stand Pipe, 1
Crossing Materials: Metal
Soil Types: 6,36,37,39,40,41,43,44,45,49,50
Rt Approach Prism Fill: 0.05in
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rt approach paved to hilltop. Fish passage barrier. Second stand pipe US adjacent to Rt approach

Polley Creek

ok-0512-r-002

Sedimentation Risk Index
34

Common: 9mi N of Crestview
Drainage: Yellow River GPS: 30.892023, -86.595242
Land owner: The H.T.L Family Ltd Ptr

County: Okaloosa
PLSS(T-R-S): 5N-24-36
Parcel No.: 3
Road Name: Old River Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ WET PRARIES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 12,16,23,36,37,40,41,43,44,49
Rt Approach Prism Fill: 2.0in
Lt Approach Prism Fill: 2.0in

Notes: US outlet has high levels of sedimentation

Deadfall Creek

ok-0512-r-005

Sedimentation Risk Index
40

Common: 7.4mi NW of Crestview
Drainage: Yellow River GPS: 30.862141426, -86.613178012
Land owner: Cheryl Mack

County: Okaloosa
PLSS(T-R-S): 4N-24-11
Parcel No.: 3
Road Name: Old River Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	40

Additional Site Features

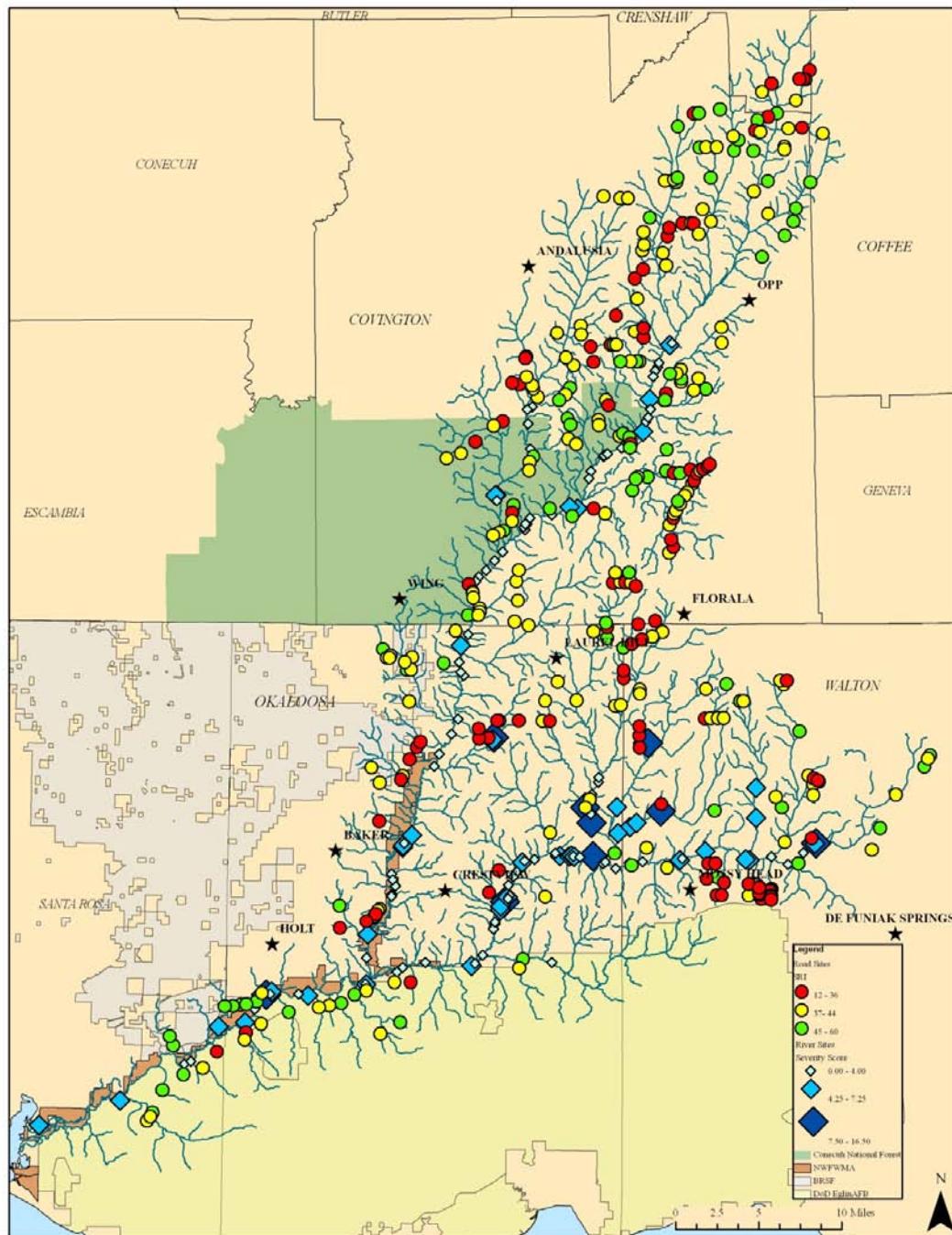
Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 23,36,37,38,39,41,43,44,52,56
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 1.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ ELECTRICAL POWER TRANSMISSION LINES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS altered by power line crossing.

Appendix N. Other impaired river corridor and unpaved road crossing sites. Sites with blue headings are river corridor sites; sites with orange headings are unpaved road sites. Specific definitions and calculations described for calculating the river severity score are detailed in USFWS (2005a) and USFWS (2006); sediment Risk Index (SRI) are detailed in Witmer (2009).



Gum Creek	wa-1026-001	Severity Score 10.5																																																																																	
<u>Common:</u> 7.3mi NE of De Funiak Springs, .04mi DS HWY 331 <u>Drainage:</u> Shoal River <u>GPS:</u> 30.801519827, -86.194956251 <u>Land owner:</u> Christopher Marshall	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 4N-20W-36 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																																																	
																																																																																			
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Notes: Rip rap has been used as a shoring structure around the bridge and large quantities have fallen in the stream channel causing a fish passage blockage during low flow stages. A house nearby is also noted as a source of NSPS.

Shoal River	ok-0615-001	Severity Score 7.5																																																																																	
<u>Common:</u> 9.1mi NW of Crestview, CR 393 Bridge Crossing <u>Drainage:</u> Shoal River <u>GPS:</u> 30.79108517, -86.42064962 <u>Land owner:</u> Donald Cunard	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-22W-2 <u>Parcel No.:</u> 6	<u>State:</u> Florida																																																																																	
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Notes: Rip rap used as shoring structure underneath CR 393 bridge. Power line crossing, bridge, and anthropomorphic evidence at this site. House boat being stored/lived in under bridge.

Yellow River	co-0813-004	Severity Score 7																																																																																	
<u>Common:</u> 10.3 miles SW of Opp, 2 miles DS from CR 32 <u>Drainage:</u> Yellow River <u>GPS:</u> 30.801519827, -86.194956251 <u>Land owner:</u> Patricia Moody	<u>County:</u> Covington <u>PLSS:</u> 2N-17E-5 <u>Parcel No.:</u> 5/156AC	<u>State:</u> Alabama																																																																																	
 LB	 © 2018 Google Image © 2018 DigitalGlobe Imagery Date Aug 30, 2007 21°18'42.31"N 86°22'22.36"W Scale: 1:164,000	 Covington Okaloosa Geneva Walton																																																																																	
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Notes: House/camp above bank. Uncharacteristic of this upper portion of the river. Some of the highest banks in the whole watershed.

Shoal River	wa-0720-001	Severity Score 6.75																																																																		
<u>Common:</u> 3.5mi N of Mossy Head, HWY 285 Bridge Crossing <u>Drainage:</u> Yellow River <u>GPS:</u> 30.795099684, -86.307253847 <u>Land owner:</u> RB: Matthew Braley/ LB: Charlie Sierra Association Inc	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 4N-21W-35 <u>Parcel No.:</u> 1.004/ 1	<u>State:</u> Florida																																																																		
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Notes: Bridge crossing at New Harmony Rd and power lines. OFW
 Unimproved boat launch/access area. Shallow all the way across.

Yellow River		sr-0304-001	Severity Score 6.25																																																																																		
<u>Common:</u> 3.8mi SE of Bagdad <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.557516, -86.98225 <u>Land owner:</u> RB: Otis Brown & Leila Mae / LB: NFWFMD	<u>County:</u> Santa Rosa <u>PLSS(T-R-S):</u> 1N-27W-31 <u>Parcel No.:</u> 1/2	<u>State:</u> Florida																																																																																			
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Notes: Pipe discharge on right bank. Residential community at delta of river.
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Gum Creek	wa-1026-002	Severity Score 6																																																																																	
<u>Common:</u> 7.4mi NW of DeFuniak Springs, 0.1mi DS HWY 331 <u>Drainage:</u> Shoal River <u>GPS:</u> 30.800967838, -86.196253398 <u>Land owner:</u> Kenneth Seigler	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 4N-20W-36 <u>Parcel No.:</u> 2.2006	<u>State:</u> Florida																																																																																	
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Notes: Steep bank, clear cut land above. Bank is 22ft high.

Yellow River	co-0819-002	Severity Score 6																																																																		
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Sturgeon C.H.	No	N/A																																																																		

Notes: Bridge crossing and campsite. Rip rap and concrete used as shoring structure.

Shoal River	wa-1009-002	Severity Score 5.5
<u>Common:</u> 2.6mi N of Oakwood Hills Development near Mossy Head <u>Drainage:</u> Yellow River <u>GPS:</u> 30.786979658, -86.262246396 <u>Land owner:</u> NWFL Girl Scouts	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 3N-20W-5 <u>Parcel No.:</u> 1	<u>State:</u> Florida
		
Risk Factor <i>Channel Stability</i> <i>Channel Alteration</i> <i>Bank Erosion</i> <i>BEHI</i> <i>Local NPSP</i> <i>Shoring Structures</i> <i>Pipe Discharge</i> <i>Water Odors</i> <i>Fish Passage Barrier</i> <i>RB: Riparian Buffer</i> <i>LB: Riparian Buffer</i> <i>RB: Floodplain Access</i> <i>LB: Floodplain Access</i> River Threat Index: 5.5	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H. Additional Site Features <i>Stream Channel Woody Material:</i> Moderate <i>Impoundments:</i> Manmade (Wooden Bridge) <i>Substrate Composition:</i> Medium Sand <i>Bank Material:</i> Sand	Ranking Good In Recovery Historic Low- Very Low Moderate Potential Present Not Present Not Present Not Present 50-99 ft 50-99 ft Partial Partial Score 0.5 1 0.5 0 1 1.5 0 0 0 0 0.25 0.25 0.25 0.25 Within Range No Yes Yes Yes No No Descriptive Field N/A 1-3 FOCAL SPECIES IN WETLAND AREAS GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB RECREATION/ WETLAND FORESTED MIX N/A N/A

Notes: Hurricane Ivan damaged bridge structure- formerly Girl Scout Rd.

Pieces of bridge were found DS washed into trees .

OFW.

Shoal River	ok-0422-007	Severity Score 5.5																																																																		
<u>Common:</u> 4.7mi SE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.695776786, -86.544244906 <u>Land owner:</u> RB: Haiseal Timber Co/ LB: Newman & Julie Bush	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 2N-23W-4 <u>Parcel No.:</u> 3/3.001	<u>State:</u> Florida																																																																		
																																																																				
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Notes: Pipe Discharge coming from a PVC pipe on the left bank upstream from this site.

Yellow River		ok-0424-004	Severity Score 5.25		
<u>Common:</u> 3.8mi SE of Crestview	<u>Drainage:</u> Blackwater Bay	<u>GPS:</u> 30.799722, -86.613524	<u>County:</u> South <u>PLSS(T-R-S):</u> 4N-24W-35/36 <u>Parcel No.:</u> 1/ 1		
<u>Land owner:</u> RB: NFWFMD/ LB: Hervis Ward			<u>State:</u> Florida		
					
LB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover	Yes	AGRICULTURAL/ STREAM AND LAKE SWAMPS (BOTTOMLAND)
<i>Local NPSP</i>	Moderate Potential	1	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Present	1.5	Sturgeon C H	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Infrequent		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Medium Sand		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand		
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
River Threat Index: 5.25					

Notes: Fencing on top of bank- effecting erosion. Road 20ft from bank.

Shoring structure is concrete and covers less than 5 percent of bank.

Area is used as a hunting preserve.

Yellow River	co-0824-002	Severity Score 5.25																																												
<u>Common:</u> 5.8mi SW of Opp <u>Drainage:</u> Blackwater Bay <u>Land owner:</u> Unknown	<u>County:</u> Covington <u>PLSS(T-R-S):</u> 3N-17E-10 <u>Parcel No.:</u> 8/75AC	<u>State:</u> Alabama																																												
																																														
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<u>Common:</u> 9mi NW of Florala <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.095519537, -86.435215265 <u>Land owner:</u> RB: Unknown/ LB: James & Mary Phillips	<u>County:</u> Covington <u>PLSS(T-R-S):</u> 2N-16E-34 <u>Parcel No.:</u> RB: ? / LB: 13/49AC	<u>State:</u> Alabama																																																																																	
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<i>Local NPSP</i>	Obvious Sources	1																																																																																	
<i>Shoring Structures</i>	Present	1.5																																																																																	
<i>Pipe Discharge</i>	Not Present	0																																																																																	
<i>Water Odors</i>	Not Present	0																																																																																	
<i>Fish Passage Barrier</i>	Not Present	0																																																																																	
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303(d)	Yes	METALS (MERCURY)																																																																																	
Wetland Species	No	N/A																																																																																	
Rare and Imperiled	No	N/A																																																																																	
Land Use/ Cover	Yes	N/A / EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND - LOBLOLLY MODIFIER																																																																																	
Candidate Mussels	Yes	FUZZY PIGTOE, SOUTHERN SANDSHELL																																																																																	
Sturgeon C.H.	No	N/A																																																																																	
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<i>Substrate Composition:</i> Medium Sand																																																																																			
<i>Bank Material:</i> Sand																																																																																			
<u>Notes:</u> Shoring structure under Hwy 55 bridge composed of concrete and rip rap.																																																																																			

Shoal River	ok-0615-008	Severity Score 5
<u>Common:</u> 7.3mi NE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.791739607, -86.454191381 <u>Land owner:</u> RB: Haiseal Timber Co / LB: Catherine Canderson Trust	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-22W-4 <u>Parcel No.:</u> 4/4.004	<u>State:</u> Florida
		
		
Risk Factor	Ranking	Score
<i>Channel Stability</i>	Fair	1
<i>Channel Alteration</i>	In Recovery	0
<i>Bank Erosion</i>	Historic	1
<i>BEHI</i>	Extreme-Very High	1.5
<i>Local NPSP</i>	No Evidence	0
<i>Shoring Structures</i>	Not Present	0
<i>Pipe Discharge</i>	Not Present	0
<i>Water Odors</i>	Not Present	0
<i>Fish Passage Barrier</i>	Not Present	0
<i>RB: Riparian Buffer</i>	100+ ft	0
<i>LB: Riparian Buffer</i>	0-29 ft	0.75
<i>RB: Floodplain Access</i>	Full	0
<i>LB: Floodplain Access</i>	None	0.75
River Threat Index:		5
Feature Within Range Descriptive Field		
<i>303(d)</i>	No	N/A
<i>Wetland Species</i>	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Rare and Imperiled</i>	Yes	GOLDSTRIPE DARTER,SPECKLED CHUB,IRONCOLOR SHINER
<i>Land Use/ Cover</i>	Yes	N/A/ STREAMS AND WATERWAYS
<i>Candidate Mussels</i>	No	N/A
<i>Sturgeon C.H.</i>	No	N/A
Additional Site Features		
<i>Stream Channel Woody Material:</i> Moderate		
<i>Impoundments:</i> None		
<i>Substrate Composition:</i> Clay		
<i>Bank Material:</i> Clay		

Notes: Private road leading to site.

Yellow River	ok-0608-001	Severity Score 5																																																																																	
<u>Common:</u> 4mi NW of Crestview <u>Drainage:</u> Blackwater Bay <u>Land owner:</u> Hervis Ward	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 4N-24W-36 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																																																	
																																																																																			
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Notes: Very high bank. At the end of hunting preserve, adjacent to private road.

Yellow River	ok-0424-003	Severity Score 5																																																																		
<u>Common:</u> 3.7mi NW of Crestview <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.801281, -86.613212 <u>Land owner:</u> RB: NFWFMD / LB: Hervis Ward	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 4N-24W-35/36 <u>Parcel No.:</u> 1/1	<u>State:</u> Florida																																																																		
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Notes: Recreational site, nearby road, and shooting preserve / fish pond.

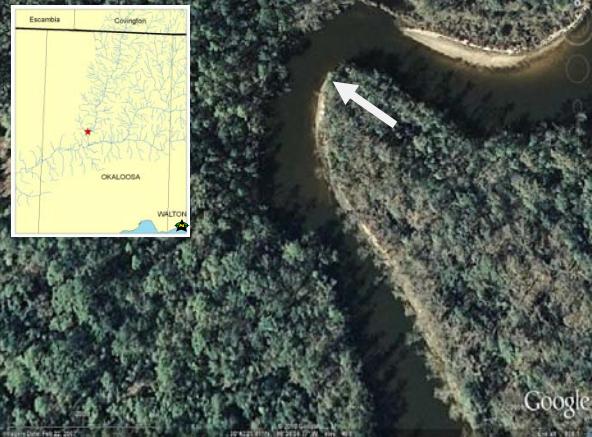
Pipe on left bank is draining the fish pond into Yellow River DS.

Turkey Creek	wa-1028-001	Severity Score 4.75			
<u>Common:</u> 7mi N of Mossy Head <u>Drainage:</u> Shoal River <u>Land owner:</u> Martha Pridgen	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 4N-20W-16 <u>Parcel No.:</u> 4	<u>State:</u> Florida			
					
RB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	COLIFORMS, TURBIDITY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	1	Land Use/ Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0			
<i>Water Odors</i>	Not Present	0			
<i>Fish Passage Barrier</i>	Not Present	0			
<i>RB: Riparian Buffer</i>	0-29 ft	0.75			
<i>LB: Riparian Buffer</i>	100 + ft	0			
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	Partial	0.25			
	River Threat Index:	4.75			
Additional Site Features					
<i>Stream Channel Woody Material:</i> Infrequent					
<i>Impoundments:</i> None					
<i>Substrate Composition:</i> Clay Marl					
<i>Bank Material:</i> Clay					

Notes: Power line crossing. Very low sinuosity.

Shoal River	ok-0615-007	Severity Score 4.75																																																																		
<u>Common:</u> 7.7mi NE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.791181735, -86.444845391 <u>Land owner:</u> Haiseal Timber Co	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-22W-4 <u>Parcel No.:</u> 4	<u>State:</u> Florida																																																																		
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Notes: Natural meander erosion.

Yellow River	ok-0416-003	Severity Score 4.75																																																																		
<u>Common:</u> 5.4mi SW of Crestview <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.723687084, -86.649676725 <u>Land owner:</u> RB: Colin R. Hicks/ LB: NFWFMD	<u>County:</u> Okaloosa <u>PLSST-R-S:</u> 3N-24W-28 <u>Parcel No.:</u> 1.1/ 1	<u>State:</u> Florida																																																																		
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Land Use/ Cover Candidate	Yes	OTHER/ STREAMS AND WATERWAYS																																																																		
Mussels	No	N/A																																																																		
Sturgeon C.H.	Yes	N/A																																																																		

Notes: Large clear-cut area 0.1mi E of eroding bank.

Turkey Creek		wa-1028-002		Severity Score 4.5
<u>Common:</u> Shoal River	5mi NE of Mossy Head Unknown	<u>GPS:</u> 30.824039425, -86.255678894	<u>County:</u> PLSS(T-R-S): Parcel No.:	Walton 4N-20W-28 Unknown
<u>Drainage:</u>				<u>State:</u> Florida
				
RB				
Risk Factor	Ranking	Score	Feature	Within Range
<i>Channel Stability</i>	Fair	1	303(d)	Yes COLIFORMS, TURBIDITY
<i>Channel Alteration</i>	None	0	Wetland Species	No N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No N/A
<i>BEHI</i>	High	1	Land Use/ Cover	Yes VACANT RESIDENTIAL/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features	
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i>	Moderate
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i>	None
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i>	Clay Marl
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i>	Sand and Clay
<i>RB: Floodplain Access</i>	None	0.75		
<i>LB: Floodplain Access</i>	Full	0		
River Threat Index:		4.5		

Notes: Joyce Cordell is noted as a possible land owner. Logging road 0.3mi west of site?
60ft site reach.

Shoal River	wa-1009-003	Severity Score 4.5			
<u>Common:</u> 4.4mi NE of Mossy Head <u>Drainage:</u> Yellow River <u>GPS:</u> 30.787746849, -86.266218365 <u>Land owner:</u> NWFL Girl Scouts					
	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 3N-22W-4 <u>Parcel No.:</u> 1	<u>State:</u> Florida			
					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Mass Wasting	1.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Historic	0.5	Land Use/ Cover	Yes	RECREATION/ WETLAND FORESTED MIX
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i>	Numerous	
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i>	None	
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i>	Medium Sand	
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i>	Sand	
<i>RB: Floodplain Access</i>	Partial	0.75			
<i>LB: Floodplain Access</i>	Full	0			
River Threat Index: 4.5					

Notes: Girl Scout camp landing? Clear at top of bank
Site not characteristic of this stretch of the Shoal River.
RB is much higher than much of the reach.

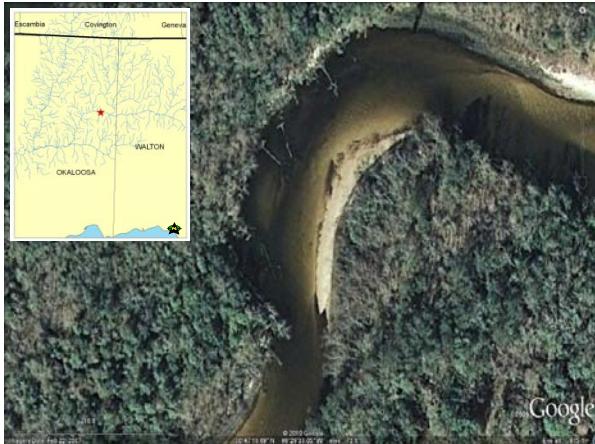
OFW

Shoal River		wa-0720-003		Severity Score 4.5	
<u>Common:</u> 3.2mi N of Mossy Head		<u>County:</u> Walton		<u>State:</u> Florida	
<u>Drainage:</u> Yellow River	<u>GPS:</u> 30.787452709, -86.332943941	<u>PLSS(T-R-S):</u> 4N-21W-35			
<u>Land owner:</u> Shoal River Oaks		<u>Parcel No.:</u> 2			
 RB		 <i>Google</i>			
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, SPECKLED CHUB, IRONCOLOR SHINER
<i>BEHI</i>	High	1	Land Use/ Cover	Yes	PARCELS WITH NO VALUES/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	Slight	0.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i>	Moderate	
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i>	None	
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i>	Medium Sand	
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i>	Sand	
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	Full	0			
River Threat Index: 4.5					

Notes: Public access from plantation lane. Used as a recreational hunt camp. OFW.

Shoal River		ok-0615-006	Severity Score 4.5		
<u>Common:</u> 7.7mi NE of Crestview	<u>County:</u> Okaloosa				
<u>Drainage:</u> Yellow River	<u>PLSS(T-R-S):</u> 3N-22W-4				
<u>Land owner:</u> Haiseal Timber Co	<u>Parcel No.:</u> 4				
					
RB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN WETLAND AREAS
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	GOLDSTRIPE DARTER,IRONCOLOR SHINER
<i>BEHI</i>	High	1	Land Use/ Cover	Yes	N/A/ STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features <i>Stream Channel Woody Material:</i> Moderate <i>Impoundments:</i> None <i>Substrate Composition:</i> Medium Sand <i>Bank Material:</i> Clay and Sand		
<i>Water Odors</i>	Not Present	0			
<i>Fish Passage Barrier</i>	Not Present	0			
<i>RB: Riparian Buffer</i>	0-29 ft	0.75			
<i>LB: Riparian Buffer</i>	100+ ft	0			
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	Full	0			
River Threat Index:		4.5			

Notes: Natural meander erosion.

Shoal River	ok-0615-014	Severity Score 4.25																																																																		
<u>Common:</u> 8mi NE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.786030551, -86.492481863 <u>Land owner:</u> LB: Haiseal Timber Co/ RB: Seagull Inc	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-23W-1 <u>Parcel No.:</u> 1/1.001	<u>State:</u> Florida																																																																		
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Sturgeon C.H.	No	N/A																																																																		

Notes: Public access, ATV trail to water, picnic table, and trash present.

LB historically clear cut. Spotty riparian coverage.

Shoal River	ok-0615-004	Severity Score 4.25																																														
<u>Common:</u> 8mi NE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.790984237, -86.44005821 <u>Land owner:</u> Haiseal Timber Co	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-22W-3 <u>Parcel No.:</u> 3	<u>State:</u> Florida																																														
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Additional Site Features <i>Stream Channel Woody Material:</i> Infrequent <i>Impoundments:</i> None <i>Substrate Composition:</i> Medium Sand <i>Bank Material:</i> Sand																																																

Notes: Natural meander erosion.

Yellow River	ok-0609-012	<i>Severity Score</i> 4.25																																																																	
<u>Common:</u> 5.9mi NW of Laurel Hill <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.9759598, -86.5539248 <u>Land owner:</u> H.T.L. Family LTD Ptr	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 6N-23W-33 <u>Parcel No.:</u> 4	<u>State:</u> Florida																																																																	
																																																																			
																																																																			
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Notes: Silviculture practice surrounding site.

Yellow River	ok-0424-002	Severity Score 4																																																																																	
<u>Common:</u> 3.8mi NW of Crestview <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.803481, -86.612175 <u>Land owner:</u> LB: Hervis Ward/ RB: NFWFMD	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 4N-24W-35/36 <u>Parcel No.:</u> 1/1	<u>State:</u> Florida																																																																																	
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Notes: Broken concrete slabs are being used as shoring structure.
 Hunting preserve is fenced and a fish pond is downstream

Titi Creek	ok-1022-001	Severity Score 4	
<u>Common:</u> 7.7mi SE of Crestview <u>Drainage:</u> Shoal River <u>Land owner:</u> USA- Eglin AFB	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 2N-22W-1 <u>Parcel No.:</u> 1	<u>State:</u> Florida	
			
			
Risk Factor <i>Channel Stability</i> <i>Channel Alteration</i> <i>Bank Erosion</i> <i>BEHI</i> <i>Local NPSP</i> <i>Shoring Structures</i> <i>Pipe Discharge</i> <i>Water Odors</i> <i>Fish Passage Barrier</i> <i>RB: Riparian Buffer</i> <i>LB: Riparian Buffer</i> <i>RB: Floodplain Access</i> <i>LB: Floodplain Access</i> River Threat Index:	Ranking Fair None Active Moderate No Evidence Not Present Not Present Not Present Not Present 0-29 ft 100+ ft None Full 4	Score 1 0 1 0.5 0 0 0 0 0 0.75 0 0.75 0 0 4	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H. Additional Site Features <i>Stream Channel Woody Material:</i> Numerous <i>Impoundments:</i> Woody Material Jams <i>Substrate Composition:</i> Coarse Sand <i>Bank Material:</i> Coarse Sand

Notes: Uncommon feature for Titi Creek. 270ft reach

Shoal River	ok-0616-002	Severity Score 4			
<u>Common:</u> 4.4mi NE of Crestview <u>Drainage:</u> Yellow River <u>Land owner:</u> Rita Chimiak	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-23W-12 <u>Parcel No.:</u> 2	<u>State:</u> Florida			
					
LB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	Land Use/ Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0			
<i>Water Odors</i>	Not Present	0			
<i>Fish Passage Barrier</i>	Not Present	0			
<i>RB: Riparian Buffer</i>	100+ ft	0			
<i>LB: Riparian Buffer</i>	0-29 ft	0.75			
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	None	0.75			
	River Threat Index:	4			
			Additional Site Features		
			<i>Stream Channel Woody Material:</i>	Moderate	
			<i>Impoundments:</i>	None	
			<i>Substrate Composition:</i>	Medium Sand	
			<i>Bank Material:</i>	Sand	

Notes: New growth on eroding bank may indicate historic erosion. However bank still appears to degrading.
 Unpaved road on both banks. Aerials show evidence of past logging/clear cutting.

Shoal River	ok-0615-010	Severity Score 4			
<u>Common:</u> 5.7mi NW of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.788777414, -86.479913841 <u>Land owner:</u> Haiseal Timber Co					
<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-22W-6 <u>Parcel No.:</u> 1&4		<u>State:</u> Florida			
		RB			
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	Land Use/ Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i>	Moderate	
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i>	None	
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	<i>Substrate Composition:</i>	Coarse Sand	
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i>	Sand	
<i>RB: Floodplain Access</i>	None	0.75			
<i>LB: Floodplain Access</i>	Full	0			
River Threat Index:		4			

Notes: Lacking riparian buffer and vegetation with deep roots to prevent further erosion. Moderately entrenched.

Yellow River	ok-0608-007	Severity Score 4																																																																		
<u>Common:</u> 9mi SW of Laurel Hill <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.88127221, -86.57624689 <u>Land owner:</u> RB: R.J. Trust & Johnson Shahid LB: Raymond & Mary Powers/ R.J & Johnston Shahid	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 4N-23W-6 <u>Parcel No.:</u> RB: 2.004/ LB: 2.005/2	<u>State:</u> Florida																																																																		
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<i>RB: Riparian Buffer</i>	100+ ft	0																																																																		
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Land Use/ Cover	Yes	VACANT RESIDENTIAL/HARDWOOD CONIFEROUS-MIXED																																																																		
Candidate Mussels	No	N/A																																																																		
Sturgeon C.H.	Yes	N/A																																																																		

Notes: Hunt camp/boat launch in close proximity

Yellow River		ok-0424-006	Severity Score 4
<u>Common:</u> 3.4mi NW of Crestview <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.776486, -86.6249 <u>Land owner:</u> RB: NFWFMD/ LB: John & Betty Carver	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-24W-11 <u>Parcel No.:</u> 2/2.01	<u>State:</u> Florida	
			
RB			
Risk Factor	Ranking	Score	Feature Within Range Descriptive Field
<i>Channel Stability</i>	Poor	1.5	303(d) Yes COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species Yes 1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Active	1	Rare and Imperiled Yes ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover Yes N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels No N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H. Yes N/A
<i>Pipe Discharge</i>	Not Present	0	
<i>Water Odors</i>	Not Present	0	
<i>Fish Passage Barrier</i>	Present	0	
<i>RB: Riparian Buffer</i>	0-29 ft	0.75	
<i>LB: Riparian Buffer</i>	100+ft	0	
<i>RB: Floodplain Access</i>	Full	0	Additional Site Features
<i>LB: Floodplain Access</i>	Partial	0.25	<i>Stream Channel Woody Material:</i> Moderate
River Threat Index: 4			<i>Impoundments:</i> None
			<i>Substrate Composition:</i> Coarse Sand
			<i>Bank Material:</i> Sand

Notes: Vegetated island becoming oxbow. Largest sand bar seen on the entire Yellow River
 Private ATV trail leading down to site.

Yellow River	ok-0416-001	Severity Score 4																																																																																	
<u>Common:</u> 6.2mi SW of Crestview <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.703051848, -86.65072881 <u>Land owner:</u> NFWFMD	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 2N-24W-4 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																																																	
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Risk Factor</th> <th style="text-align: left; padding: 5px;">Ranking</th> <th style="text-align: left; padding: 5px;">Score</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;"><i>Channel Stability</i></td><td style="padding: 5px;">Fair</td><td style="padding: 5px;">1.5</td></tr> <tr> <td style="padding: 5px;"><i>Channel Alteration</i></td><td style="padding: 5px;">None</td><td style="padding: 5px;">0</td></tr> <tr> <td style="padding: 5px;"><i>Bank Erosion</i></td><td style="padding: 5px;">Mass Wasting</td><td style="padding: 5px;">1.5</td></tr> <tr> <td style="padding: 5px;"><i>BEHI</i></td><td style="padding: 5px;">High</td><td style="padding: 5px;">1</td></tr> <tr> <td style="padding: 5px;"><i>Local NPSP</i></td><td style="padding: 5px;">No Evidence</td><td style="padding: 5px;">0</td></tr> <tr> <td style="padding: 5px;"><i>Shoring Structures</i></td><td style="padding: 5px;">Not Present</td><td style="padding: 5px;">0</td></tr> <tr> <td style="padding: 5px;"><i>Pipe Discharge</i></td><td style="padding: 5px;">Not Present</td><td style="padding: 5px;">0</td></tr> <tr> <td style="padding: 5px;"><i>Water Odors</i></td><td style="padding: 5px;">Not Present</td><td style="padding: 5px;">0</td></tr> <tr> <td style="padding: 5px;"><i>Fish Passage Barrier</i></td><td style="padding: 5px;">Not Present</td><td style="padding: 5px;">0</td></tr> <tr> <td style="padding: 5px;"><i>RB: Riparian Buffer</i></td><td style="padding: 5px;">100+ ft</td><td style="padding: 5px;">0</td></tr> <tr> <td style="padding: 5px;"><i>LB: Riparian Buffer</i></td><td style="padding: 5px;">100+ ft</td><td style="padding: 5px;">0</td></tr> <tr> <td style="padding: 5px;"><i>RB: Floodplain Access</i></td><td style="padding: 5px;">Full</td><td style="padding: 5px;">0</td></tr> <tr> <td style="padding: 5px;"><i>LB: Floodplain Access</i></td><td style="padding: 5px;">Full</td><td style="padding: 5px;">0</td></tr> <tr> <td style="text-align: right; padding: 5px;">River Threat Index:</td><td style="text-align: center; padding: 5px;">4</td><td></td></tr> </tbody> </table>	Risk Factor	Ranking	Score	<i>Channel Stability</i>	Fair	1.5	<i>Channel Alteration</i>	None	0	<i>Bank Erosion</i>	Mass Wasting	1.5	<i>BEHI</i>	High	1	<i>Local NPSP</i>	No Evidence	0	<i>Shoring Structures</i>	Not Present	0	<i>Pipe Discharge</i>	Not Present	0	<i>Water Odors</i>	Not Present	0	<i>Fish Passage Barrier</i>	Not Present	0	<i>RB: Riparian Buffer</i>	100+ ft	0	<i>LB: Riparian Buffer</i>	100+ ft	0	<i>RB: Floodplain Access</i>	Full	0	<i>LB: Floodplain Access</i>	Full	0	River Threat Index:	4		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Feature</th> <th style="text-align: left; padding: 5px;">Within Range</th> <th style="text-align: left; padding: 5px;">Descriptive Field</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">303(d)</td><td style="padding: 5px;">Yes</td><td style="padding: 5px;">COLIFORMS, TURBIDITY, MERCURY</td></tr> <tr> <td style="padding: 5px;">Wetland Species</td><td style="padding: 5px;">Yes</td><td style="padding: 5px;">1-3 FOCAL SPECIES IN UPLAND AREAS</td></tr> <tr> <td style="padding: 5px;">Rare and Imperiled</td><td style="padding: 5px;">Yes</td><td style="padding: 5px;">ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER</td></tr> <tr> <td style="padding: 5px;">Land Use/ Cover</td><td style="padding: 5px;">Yes</td><td style="padding: 5px;">N/A / STREAMS AND WATERWAYS</td></tr> <tr> <td style="padding: 5px;">Candidate Mussels</td><td style="padding: 5px;">No</td><td style="padding: 5px;">N/A</td></tr> <tr> <td style="padding: 5px;">Sturgeon C.H.</td><td style="padding: 5px;">Yes</td><td style="padding: 5px;">N/A</td></tr> <tr> <td align="center" colspan="3" style="padding: 5px;">Additional Site Features</td></tr> <tr> <td align="center" colspan="3" style="padding: 5px;"><i>Stream Channel Woody Material:</i> Moderate</td></tr> <tr> <td align="center" colspan="3" style="padding: 5px;"><i>Impoundments:</i> None</td></tr> <tr> <td align="center" colspan="3" style="padding: 5px;"><i>Substrate Composition:</i> Medium Sand</td></tr> <tr> <td align="center" colspan="3" style="padding: 5px;"><i>Bank Material:</i> Sand</td></tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER	Land Use/ Cover	Yes	N/A / STREAMS AND WATERWAYS	Candidate Mussels	No	N/A	Sturgeon C.H.	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Notes: Data collected during flood stage- receding.

Private/primitive road 0.08mi west of the documented site, with a path leading to the river's edge

Since this occurs on an outside bend, it is likely that the erosion is mostly natural, with some contribution from the nearby path.

Yellow River	co-0805-005	Severity Score 3.75																																																																		
<u>Common:</u> 16mi S of Andalusia <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.0770612, -86.488424621 <u>Land owner:</u> RB: USA / LB: James & Patricia Battles	<u>County:</u> Covington <u>PLSS(T-R-S):</u> 1N-16E-6 <u>Parcel No.:</u> RB: 2/339AC / LB:1/272AC	<u>State:</u> Alabama																																																																		
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Sturgeon C.H.	Yes	N/A																																																																		

Notes: Lack of vegetation on left bank could lead to further active erosion.

Shoal River	wa-0720-002	Severity Score 3.5
<u>Common:</u> 14mi E of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.789053004, -86.330105543 <u>Land owner:</u> RB: George & Barbara Baretto/ LB: Shoal River Oaks	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 4N-21W-35 <u>Parcel No.:</u> 1.027/ 2	<u>State:</u> Florida
		
		
Risk Factor	Ranking	Score
<i>Channel Stability</i>	Fair	1
<i>Channel Alteration</i>	None	0
<i>Bank Erosion</i>	Historic	0.5
<i>BEHI</i>	Moderate	0.5
<i>Local NPSP</i>	Slight	0.5
<i>Shoring Structures</i>	Not Present	0
<i>Pipe Discharge</i>	Not Present	0
<i>Water Odors</i>	Not Present	0
<i>Fish Passage Barrier</i>	Not Present	0
<i>RB: Riparian Buffer</i>	0-29 ft	0.75
<i>LB: Riparian Buffer</i>	100+ ft	0
<i>RB: Floodplain Access</i>	Partial	0.25
<i>LB: Floodplain Access</i>	Full	0
River Threat Index:		3.5
Feature Within Range Descriptive Field		
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
Land Use/ Cover	Yes	PARCELS WITH NO VALUES/ STREAMS AND WATERWAYS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A
Additional Site Features		
<i>Stream Channel Woody Material:</i> Moderate		
<i>Impoundments:</i> None		
<i>Substrate Composition:</i> Medium Sand		
<i>Bank Material:</i> Sand		

Notes: Power line crossing and unimproved private road coming off Plantation Ln.

Shoal River	ok-0615-011	Severity Score 3.5																																																																		
<u>Common:</u> 5mi NE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.78738993, -86.490213592 <u>Land owner:</u> RB: Seagull Inc/ LB: Haiseal Timber Co	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-22W-6 <u>Parcel No.:</u> 6.001/6.001 A	<u>State:</u> Florida																																																																		
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Notes: Lt Bank evidence of clear cutting. Rt bank aerials show a well defined historic meander pattern.

Shoal River	ok-0615-005	Severity Score 3.5			
<u>Common:</u> 3.9mi E of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.791258301, -86.440516277 <u>Land owner:</u> Haiseal Timber Co					
 RB	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-22W-3 <u>Parcel No.:</u> 3	<u>State:</u> Florida			
					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	Land Use/ Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i> Moderate		
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i> None		
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i> Clay		
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i> Sand and Clay		
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Partial	0.25			
River Threat Index: 3.5					

Notes: None.

Shoal River	ok-0423-007	Severity Score 3.25			
<u>Common:</u> 3.6mi SE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.732367, -86.520503 <u>Land owner:</u> Haiseal Timber Co	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-23W-26 <u>Parcel No.:</u> 9	<u>State:</u> Florida			
					
RB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Poor	1.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Not eroding	0	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	High	1	Land Use/ Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0			
<i>Water Odors</i>	Not Present	0			
<i>Fish Passage Barrier</i>	Not Present	0			
<i>RB: Riparian Buffer</i>	0-29 ft	0.75			
<i>LB: Riparian Buffer</i>	100+ ft	0			
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
	River Threat Index:	3.25			
Additional Site Features					
<i>Stream Channel Woody Material:</i> Moderate					
<i>Impoundments:</i> None					
<i>Substrate Composition:</i> Medium Sand					
<i>Bank Material:</i> Sand					

Notes: Aggradational site.

Shoal River	wa-0721-001	Severity Score 3																																																																		
<u>Common:</u> 2.8mi N of Mossy Head <u>Drainage:</u> Yellow River <u>GPS:</u> 30.784190629, -86.38280134 <u>Land owner:</u> RB: Walter Billingsley/ LB: William Corley	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 3N-21W-6 <u>Parcel No.:</u> 1.1003/1.1	<u>State:</u> Florida																																																																		
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Notes: West of Laird Rd. Unpaved road on left bank, as seen in aerial, coming off of W.T. Hulion Rd.

Shoal River	ok-0616-001	Severity Score 3																																																																		
<u>Common:</u> 4.5mi NE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.77799366, -86.497928994 <u>Land owner:</u> Rita Chimiak	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-23W-12 <u>Parcel No.:</u> 2	<u>State:</u> Florida																																																																		
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Notes: Unpaved road on both banks. Aerials show evidence of past logging/clear cutting.

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<u>Common:</u> 8.3mi NE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.790678454, -86.434007707 <u>Land owner:</u> Haiseal Timber Co	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-22W-3 <u>Parcel No.:</u> 3	<u>State:</u> Florida																																																																										
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Notes: End of foot/ATV trail coming from the SE.

Yellow River	co-0807-001	Severity Score 3																																																																		
<u>Common:</u> 7.7mi NW of Libertyville <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.148090541, -86.389774939 <u>Land owner:</u> T. Ivey Powell & Sons Inc.	<u>County:</u> Covington <u>PLSS(T-R-S):</u> 2N-17E-7 <u>Parcel No.:</u> 3	<u>State:</u> Alabama																																																																		
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Notes: Riparian reduced by silviculture.

Shoal River		ok-0615-009	Severity Score 2.75
<u>Common:</u> 7mi NE of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida	
<u>Drainage:</u> Yellow River	<u>PLSS:</u> 4N-22W-32		
<u>Land owner:</u> RB: Sammuel Cunningham / LB: Joann Christensen	<u>Parcel No.:</u> 5 / 4.005		
 <p>RB</p>			
Risk Factor	Ranking	Score	Feature Within Range Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d) No N/A
<i>Channel Alteration</i>	None	0	Wetland Species No N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled Yes GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover Yes N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels No N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H. No N/A
<i>Pipe Discharge</i>	Not Present	0	
<i>Water Odors</i>	Not Present	0	
<i>Fish Passage Barrier</i>	Not Present	0	
<i>RB: Riparian Buffer</i>	100+ ft	0	
<i>LB: Riparian Buffer</i>	100+ ft	0	
<i>RB: Floodplain Access</i>	Partial	0.25	Additional Site Features
<i>LB: Floodplain Access</i>	Full	0	<i>Stream Channel Woody Material:</i> Moderate
River Threat Index: 2.75			<i>Impoundments:</i> None
			<i>Substrate Composition:</i> Medium Sand
			<i>Bank Material:</i> Sand and Clay

Notes: Unpaved private logging road 0.8mi N of bend.

Yellow River		ok-0609-014	Severity Score 2.75																																																																																		
<u>Common:</u> 5.5mi SW of Laurel Hill	<u>County:</u> Okaloosa	<u>State:</u> Florida																																																																																			
<u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.949663, -86.551128	<u>PLSS:</u> 5N-23W-9																																																																																				
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Notes: Adjacent to logging operation. Areas of clear cutting and unpaved private road.

Yellow River	ok-0609-011	Severity Score 2.75			
<u>Common:</u> 5.3mi NW of Laurel Hill <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.98557256, -86.5464569 <u>Land owner:</u> H.T.L. Family LTD Ptr	<u>County:</u> Okaloosa <u>PLSS:</u> 6N-23W-28 <u>Parcel No.:</u> 1	<u>State:</u> Florida			
 LB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Fair	1	303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
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<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
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<i>LB: Riparian Buffer</i>	100+ ft	0			
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
		River Threat Index: 2.75			
			Additional Site Features		
			<i>Stream Channel Woody Material:</i>	Infrequent	
			<i>Impoundments:</i>	None	
			<i>Substrate Composition:</i>	Medium Sand	
			<i>Bank Material:</i>	Sand	

Notes: Adjacent to silviculture site.

Shoal River	ok-0422-006	Severity Score 2.75			
<u>Common:</u> 4.7mi NE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.697864096, -86.540875945 <u>Land owner:</u> LB: Sammy Sowell/ RB: Haiseal Timber Co	<u>County:</u> Okaloosa <u>PLSS:</u> 2N-23W-3 <u>Parcel No.:</u> 4/ 1	<u>State:</u> Florida			
 LB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Low-Very Low	0	Land Use/ Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	Obvious Sources	1.5	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i>	Numerous	
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i>	None	
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i>	Medium Sand	
<i>LB: Riparian Buffer</i>	0-29 ft	0.75	<i>Bank Material:</i>	Grass and Roots	
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
River Threat Index: 2.75					

Notes: Residence on LB

Yellow River	co-0807-006	Severity Score 2.75			
<u>Common:</u> 8.1mi SE of Libertyville <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.128073353, -86.421061485 <u>Land owner:</u> Patricia Vick Moody	<u>County:</u> Covington <u>PLSS:</u> 2N-16E-23 <u>Parcel No.:</u> 1	<u>State:</u> Alabama			
					
LB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	No	N/A
<i>BEHI</i>	High	1	Land Use/ Cover	No	N/A
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i>	None	
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i>	None	
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i>	Medium Sand	
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i>	Sand	
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Partial	0.25			
River Threat Index:		2.75			

Notes: None.

Yellow River		ok-0609-015	Severity Score 2.5		
<u>Common:</u> 5.7mi SW of Laurel Hill		<u>County:</u> Okaloosa			
<u>Drainage:</u> Blackwater Bay	<u>GPS:</u> 30.9529206, -86.5541652	<u>PLSS:</u> 5N-23W-9	<u>State:</u> Florida		
<u>Land owner:</u> H.T.L. Family LTD Ptr		<u>Parcel No.:</u> 1			
					
RB					
Risk Factor	Ranking	Score	Feature		
<i>Channel Stability</i>	Fair	1	303d	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Active	1	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0	Additional Site Features		
<i>Water Odors</i>	Not Present	0	<i>Stream Channel Woody Material:</i>	Infrequent	
<i>Fish Passage Barrier</i>	Not Present	0	<i>Impoundments:</i>	None	
<i>RB: Riparian Buffer</i>	100+ ft	0	<i>Substrate Composition:</i>	Medium Sand	
<i>LB: Riparian Buffer</i>	100+ ft	0	<i>Bank Material:</i>	Sand	
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
River Threat Index: 2.5					

Notes: Adjacent to logging operation. Areas of clear cutting and unpaved private road.

Yellow River	ok-0424-009	Severity Score 2.5
<u>Common:</u> 3.3mi W of Crestview <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.758808, -86.624611 <u>Land owner:</u> Gillis & Dixie Powell Jr.	<u>County:</u> Okaloosa <u>PLSS:</u> 3N-24W-14 <u>Parcel No.:</u> 1	<u>State:</u> Florida
 RB		
Risk Factor	Ranking	Score
<i>Channel Stability</i>	Poor	1.5
<i>Channel Alteration</i>	None	0
<i>Bank Erosion</i>	Not Eroding	0
<i>BEHI</i>	High	1
<i>Local NPSP</i>	No Evidence	0
<i>Shoring Structures</i>	Not Present	0
<i>Pipe Discharge</i>	Not Present	0
<i>Water Odors</i>	Not Present	0
<i>Fish Passage Barrier</i>	Not Present	0
<i>RB: Riparian Buffer</i>	100+ ft	0
<i>LB: Riparian Buffer</i>	100+ ft	0
<i>RB: Floodplain Access</i>	Full	0
<i>LB: Floodplain Access</i>	Full	0
River Threat Index:	2.5	
Feature Within Range Descriptive Field		
303(d) Yes COLIFORMS, TURBIDITY, MERCURY		
Wetland Species Yes 1-3 FOCAL SPECIES IN UPLAND AREAS		
Rare and Imperiled Yes ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER		
Land Use/ Cover Yes N/A / STREAMS AND WATERWAYS		
Candidate Mussels Yes NARROW PIGTOE, SOUTHERN SANDSHELL		
Sturgeon C.H. Yes N/A		
Additional Site Features		
<i>Stream Channel Woody Material:</i> Moderate		
<i>Impoundments:</i> None		
<i>Substrate Composition:</i> Coarse Sand		
<i>Bank Material:</i> Coarse Sand		

Notes: Large aggradational site with some vegetation indicating it is not a recent deposit.

Yellow River		ok-0424-008	Severity Score 2.5																																																																																		
<u>Common:</u> 3.0mi W of Crestview	<u>County:</u> Okaloosa	<u>State:</u> Florida																																																																																			
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Notes: Aggradational site. Large number of fresh deposits present.

Shoal River	ok-0423-008	Severity Score 2.5																																																																		
<u>Common:</u> 3.7mi SE of Crestview, .10mi Upstream of I-10 bridge <u>Drainage:</u> Yellow River <u>GPS:</u> 30.728122, -86.521925 <u>Land owner:</u> Haiseal Timber Co	<u>County:</u> Okaloosa <u>PLSS:</u> 3N-23W-26 <u>Parcel No.:</u> 9	<u>State:</u> Florida																																																																		
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Sturgeon C.H.	No	N/A																																																																		

Notes: Aggradational site.

Yellow River	co-0824-004	Severity Score 2.5
<u>Common:</u> 2.8mi SW of Horn Hill <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.219101448, -86.352660805 <u>Land owner:</u> LB: Dixon Family LE/ RB: William Hurbert Henderson Jr.		
 RB	 Covington 3N-17E-21 1/2	
Risk Factor	Ranking	Score
<i>Channel Stability</i>	Good	0.5
<i>Channel Alteration</i>	None	0
<i>Bank Erosion</i>	Active	1
<i>BEHI</i>	Moderate	0.5
<i>Local NPSP</i>	No Evidence	0
<i>Shoring Structures</i>	Not Present	0
<i>Pipe Discharge</i>	Not Present	0
<i>Water Odors</i>	Not Present	0
<i>Fish Passage Barrier</i>	Not Present	0
<i>RB: Riparian Buffer</i>	30-49 ft	0.5
<i>LB: Riparian Buffer</i>	100+ ft	0
<i>RB: Floodplain Access</i>	Full	0
<i>LB: Floodplain Access</i>	Full	0
River Threat Index:		2.5
Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A / EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	Yes	SOUTHERN SANDSHELL
Sturgeon C.H.	No	N/A
Additional Site Features		
<i>Stream Channel Woody Material:</i> Moderate		
<i>Impoundments:</i> None		
<i>Substrate Composition:</i> Medium Sand		
<i>Bank Material:</i> Sand		

Notes: New growth on eroded site

Yellow River	co-0813-001	Severity Score 2.5																																																																																	
<u>Common:</u> 7.6mi SE of Libertyville <u>Drainage:</u> Blackwater River <u>GPS:</u> 31.181927338, -86.36002324 <u>Land owner:</u> Rayonier Woodlands LLC	<u>County:</u> Covington <u>PLSS:</u> 3N-17E-33 <u>Parcel No.:</u> 1/572AC	<u>State:</u> Alabama																																																																																	
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Notes: Large logging operation directly west of this site with bare soil.

Road or drainage from this area is leading into the river.

May be the cause of excessive turbidity and sedimentation downstream.

Gum Creek	wa-1026-004	Severity Score 2.25																																																																		
<u>Common:</u> 7.7mi NW of DeFuniak Springs <u>Drainage:</u> Shoal River <u>GPS:</u> 30.782837831, -86.22350037 <u>Land owner:</u> Victoria Arlene Trustee	<u>County:</u> Walton <u>PLSS:</u> 3N-20W-2/3 <u>Parcel No.:</u> 7; 1	<u>State:</u> Florida																																																																		
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Notes: Old fence in stream and small creek on right bank.

Appears to be an access point for livestock, but there are none currently around.

Also an unpaved road on top of the left bank, as seen in the aerial.

Gum Creek	wa-1026-003	Severity Score 2.25																																																																																	
<u>Common:</u> 7.4mi NW of De Funiak Springs <u>Drainage:</u> Shoal River <u>GPS:</u> 30.793090229, -86.207789388 <u>Land owner:</u> William Davis	<u>County:</u> Walton <u>PLSS:</u> 3N-20W-2 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																																																	
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Notes: Private road on top of left bank. Agricultural land use.

Big Swamp Creek		wa-1009-001	Severity Score 2																																																																																		
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<i>RB: Riparian Buffer</i>	100+ ft	0																																																																																			
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Feature	Within Range	Descriptive Field																																																																																			
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Wetland Species	No	N/A																																																																																			
Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB																																																																																			
Land Use/ Cover	Yes	INSTITUTIONAL/ STREAMS AND WATERWAYS																																																																																			
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Sturgeon C.H.	No	N/A																																																																																			
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<i>Impoundments:</i> None																																																																																					
<i>Substrate Composition:</i> Medium Sand																																																																																					
<i>Bank Material:</i> Medium Sand																																																																																					

Notes: No substantial riparian coverage. Small, uncut grasses

Shoal River	wa-0721-002	Severity Score 2			
<u>Common:</u> 11.2mi NE of Crestview, 0.16 W of Laird Rd bridge crossing <u>Drainage:</u> Yellow River <u>GPS:</u> 30.785403799, -86.384180518 <u>Land owner:</u> RB: Walter Billingsley / LB: William Corley	<u>County:</u> Walton <u>PLSS:</u> 3N-21W-6 <u>Parcel No.:</u> 1.1003 / 1.1	<u>State:</u> Florida			
					
RB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	No	N/A
<i>Channel Alteration</i>	None	0	Wetland Species	No	N/A
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
<i>BEHI</i>	Moderate	0.5	Land Use/ Cover	Yes	AGRICULTURAL,PARCELS WITH NO VALUE/ STREAMS AND WATERWAYS, HARDWOOD CONIFEROUS-MIXED
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	No	N/A
<i>Pipe Discharge</i>	Not Present	0			
<i>Water Odors</i>	Not Present	0			
<i>Fish Passage Barrier</i>	Not Present	0			
<i>RB: Riparian Buffer</i>	100+ ft	0			
<i>LB: Riparian Buffer</i>	50-99 ft	0.25			
<i>RB: Floodplain Access</i>	Partial	0.25			
<i>LB: Floodplain Access</i>	Full	0			
	River Threat Index:	2			
Additional Site Features					
<i>Stream Channel Woody Material:</i> Moderate					
<i>Impoundments:</i> None					
<i>Substrate Composition:</i> Medium Sand					
<i>Bank Material:</i> Sand					

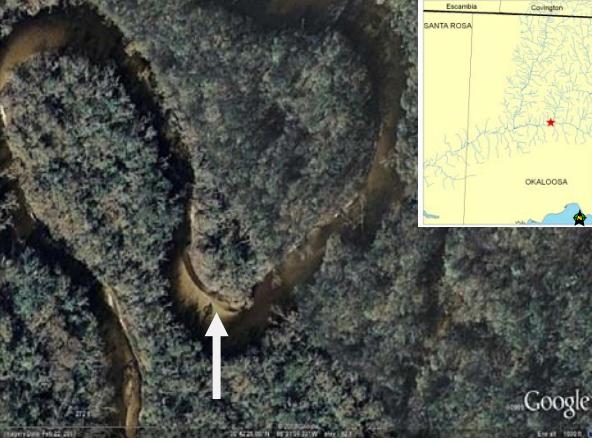
Notes: None.

Shoal River	ok-0721-005	Severity Score 2																																																																		
<u>Common:</u> 9.6mi NE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.784689, -86.410658 <u>Land owner:</u> Ray Const	<u>County:</u> Okaloosa <u>PLSS:</u> 3N-22W-2 <u>Parcel No.:</u> 4	<u>State:</u> Florida																																																																		
 RB																																																																				
<table border="1"> <thead> <tr> <th>Risk Factor</th> <th>Ranking</th> <th>Score</th> </tr> </thead> <tbody> <tr> <td>Channel Stability</td> <td>Good</td> <td>0.5</td> </tr> <tr> <td>Channel Alteration</td> <td>None</td> <td>0</td> </tr> <tr> <td>Bank Erosion</td> <td>Active</td> <td>1</td> </tr> <tr> <td>BEHI</td> <td>Moderate</td> <td>0.5</td> </tr> <tr> <td>Local NPSP</td> <td>No Evidence</td> <td>0</td> </tr> <tr> <td>Shoring Structures</td> <td>Not Present</td> <td>0</td> </tr> <tr> <td>Pipe Discharge</td> <td>Not Present</td> <td>0</td> </tr> <tr> <td>Water Odors</td> <td>Not Present</td> <td>0</td> </tr> <tr> <td>Fish Passage Barrier</td> <td>Not Present</td> <td>0</td> </tr> <tr> <td>RB: Riparian Buffer</td> <td>100+ ft</td> <td>0</td> </tr> <tr> <td>LB: Riparian Buffer</td> <td>100+ ft</td> <td>0</td> </tr> <tr> <td>RB: Floodplain Access</td> <td>Full</td> <td>0</td> </tr> <tr> <td>LB: Floodplain Access</td> <td>Full</td> <td>0</td> </tr> <tr> <td>River Threat Index:</td> <td>2</td> <td></td> </tr> </tbody> </table>	Risk Factor	Ranking	Score	Channel Stability	Good	0.5	Channel Alteration	None	0	Bank Erosion	Active	1	BEHI	Moderate	0.5	Local NPSP	No Evidence	0	Shoring Structures	Not Present	0	Pipe Discharge	Not Present	0	Water Odors	Not Present	0	Fish Passage Barrier	Not Present	0	RB: Riparian Buffer	100+ ft	0	LB: Riparian Buffer	100+ ft	0	RB: Floodplain Access	Full	0	LB: Floodplain Access	Full	0	River Threat Index:	2		<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>Yes</td> <td>1-3 FOCAL SPECIES IN UPLAND AREAS</td> </tr> <tr> <td>Rare and Imperiled</td> <td>Yes</td> <td>GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB</td> </tr> <tr> <td>Land Use/ Cover</td> <td>Yes</td> <td>AGRICULTURAL/ STREAMS AND WATERWAYS</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table> <p>Additional Site Features</p> <p> <i>Stream Channel Woody Material:</i> Moderate <i>Impoundments:</i> None <i>Substrate Composition:</i> Medium Sand <i>Bank Material:</i> Sand </p>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS	Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB	Land Use/ Cover	Yes	AGRICULTURAL/ STREAMS AND WATERWAYS	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A	
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Candidate Mussels	No	N/A																																																																		
Sturgeon C.H.	No	N/A																																																																		

Notes: Natural meander bend.

Shoal River	ok-0721-003	Severity Score 2																																													
<u>Common:</u> 10.3mi NW of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.780504912, -86.397877118 <u>Land owner:</u> Haiseal Timber Co	<u>County:</u> Okaloosa <u>PLSS:</u> 3N-22W-1 <u>Parcel No.:</u> 3	<u>State:</u> Florida																																													
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Yellow River	ok-0608-006	Severity Score 2																																																																																	
<u>Common:</u> 6.9mi SW of Laurel Hill <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.911646, -86.556784 <u>Land owner:</u> H.T.L. Family LTD Ptr	<u>County:</u> Okaloosa <u>PLSS:</u> 5N-23W-21 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																																																	
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<u>Notes:</u> Silviculture land use. Unpaved private road on LB																																																																																			

Shoal River	ok-0422-005	Severity Score 2
<u>Common:</u> 4.5mi SE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.70517488, -86.533003383 <u>Land owner:</u> Haiseal Timber Co		
<u>County:</u> Okaloosa <u>PLSS:</u> 2N-23W-3 <u>Parcel No.:</u> 1		
 RB	 Google	
Risk Factor	Ranking	Score
<i>Channel Stability</i>	Poor	1.5
<i>Channel Alteration</i>	None	0
<i>Bank Erosion</i>	Not Eroding	0
<i>BEHI</i>	Moderate	0.5
<i>Local NPSP</i>	No Evidence	0
<i>Shoring Structures</i>	Not Present	0
<i>Pipe Discharge</i>	Not Present	0
<i>Water Odors</i>	Not Present	0
<i>Fish Passage Barrier</i>	Not Present	0
<i>RB: Riparian Buffer</i>	100+ ft	0
<i>LB: Riparian Buffer</i>	100+ ft	0
<i>RB: Floodplain Access</i>	Full	0
<i>LB: Floodplain Access</i>	Full	0
River Threat Index:		2
Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	GOLDSTRIPE DARTER, IRONCOLOR SHINER, SPECKLED CHUB
Land Use/ Cover	Yes	N/A / STREAMS AND WATERWAYS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A
Additional Site Features		
<i>Stream Channel Woody Material:</i> Moderate		
<i>Impoundments:</i> None		
<i>Substrate Composition:</i> Medium Sand		
<i>Bank Material:</i> Sand and Leaf Litter		

Notes: Extremely shallow section of the river.

This sediment bar extends very far into the channel, leaving little room for the thalweg.

Shoal River	ok-0422-003	Severity Score 2																																																																		
<u>Common:</u> 4.5mi SE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.69905532, -86.591123401 <u>Land owner:</u> NFWFMD	<u>County:</u> Okaloosa <u>PLSS:</u> 2N-23W-26 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																																		
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Notes: Natural depository feature, resulting from recent and historic flooding.

Yellow River	co-0824-005	Severity Score 2																																																																																	
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Yellow River	co-0609-007	Severity Score 2																																																																		
<u>Common:</u> 12.5mi NW of Flora <u>Drainage:</u> Mississippi River <u>GPS:</u> 31.0362019, -86.5351409 <u>Land owner:</u> RB: Carl & Rita Lawson/ LB: Wesley Laird & Allen Woodard	<u>County:</u> Covington <u>PLSS:</u> 1N-15E-22 <u>Parcel No.:</u> 4/ 4.02	<u>State:</u> Alabama																																																																		
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Notes: Aggradational site: Large fresh deposits common with localized deposition on top of low bank.
 Moderate number of deep pools.

Yellow River	co-0609-005	Severity Score 2																																																																		
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Sturgeon C.H.	Yes	N/A																																																																		

Notes: Large aggradational site.

Shoal River	wa-0720-004	Severity Score 1.75																																																																		
<u>Common:</u> 12.1mi NE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.78619569, -86.37058976 <u>Land owner:</u> Thomas Grandstaff Jr	<u>County:</u> Walton <u>PLSS:</u> 3N-21W-5 <u>Parcel No.:</u> 4.0001	<u>State:</u> Florida																																																																		
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Notes: Power line crossing

Shoal River	ok-0423-006	Severity Score 1.75																																																																																	
<u>Common:</u> 3.5mi SE of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.734083, -86.520383 <u>Land owner:</u> Haiseal Timber Co	<u>County:</u> Okaloosa <u>PLSS:</u> 3N-23W-26 <u>Parcel No.:</u> 3	<u>State:</u> Florida																																																																																	
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Notes: Aggradational site: Large, fresh deposits common and low to moderate number of deep pools.

Yellow River	co-0807-007	Severity Score 1.75																																																																														
<u>Common:</u> 8.5mi SE of Libertyville <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.121751768, -86.422966052 <u>Land owner:</u> Patricia Vick Moody	<u>County:</u> Covington <u>PLSS:</u> 2N-16E-13 <u>Parcel No.:</u> 1	<u>State:</u> Alabama																																																																														
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<u>Notes:</u> Natural meander incision. Highly vegetated bank.																																																																																

Yellow River	co-0609-008	Severity Score 1.75																																													
<u>Common:</u> 12.6mi NW of Flora <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.03210119, -86.538494 <u>Land owner:</u> RB: USA/ LB: Wesley Laird & Allen Woodard	<u>County:</u> Covington <u>PLSS:</u> 1N-15E-22 <u>Parcel No.:</u> 3/ 4.02	<u>State:</u> Alabama																																													
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Notes: Nearby road runs parallel to river 60 feet east.

Yellow River	ok-0608-005	Severity Score 1.5																																												
<u>Common:</u> 9.4mi N of Crestview <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.898726, -86.563853 <u>Land owner:</u> H.T.L. Family LTD Ptr	<u>County:</u> Okaloosa <u>PLSS:</u> 5N-23W-29 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																												
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Notes: Aggradational Site: Large, fresh deposits are uncommon. Some build up on top of low banks.

Yellow River	ok-0608-003	Severity Score 1.5																																																																																	
<u>Common:</u> 6.7mi N of Crestview <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.870603353, -86.581355104 <u>Land owner:</u> LB: U.I.L Family LTD Ptr / RB: NFWMD	<u>County:</u> Okaloosa <u>PLSS:</u> 4N-23W-6 <u>Parcel No.:</u> 5/4	<u>State:</u> Florida																																																																																	
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Notes: Adjacent to silviculture site with large clear cut areas																																																																																			

Yellow River	ok-0424-010	Severity Score 1.5																																																																																	
<u>Common:</u> 3.2mi SW of Crestview <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.757006293, -86.625170177 <u>Land owner:</u> Gillis & Dixie Powell Jr.	<u>County:</u> Okaloosa <u>PLSS:</u> 3N-24W-14 <u>Parcel No.:</u> 1	<u>State:</u> Florida																																																																																	
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Notes: None.

Yellow River	co-0824-003	Severity Score 1.5																																													
<u>Common:</u> 6.6mi SE of Libertyville <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.222594183, -86.351242666 <u>Land owner:</u> Patricia Vick Moody	<u>County:</u> Covington <u>PLSS:</u> 3N-17E-16 <u>Parcel No.:</u> 1	<u>State:</u> Alabama																																													
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Yellow River	co-0609-004	Severity Score 1.5																																																																		
<u>Common:</u> 11.8mi NW of Flora <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.0501274, -86.519192 <u>Land owner:</u> LB: Nathaniel Wright, Tr. / RB: USA	<u>County:</u> Covington <u>PLSS:</u> 1N-15E-14 <u>Parcel No.:</u> 3/1	<u>State:</u> Alabama																																																																		
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Notes: None

Yellow River	ok-0609-013	Severity Score 1			
<u>Common:</u> 5.8 W of Laurel Hill <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 30.9615637, -86.555512 <u>Land owner:</u> Ray Construction of Okaloosa County	<u>County:</u> Okaloosa <u>PLSS:</u> 5N-23W-4 <u>Parcel No.:</u> 2	<u>State:</u> Florida			
 RB					
Risk Factor	Ranking	Score	Feature	Within Range	Descriptive Field
<i>Channel Stability</i>	Good	0.5	303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
<i>Channel Alteration</i>	None	0	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
<i>Bank Erosion</i>	Historic	0.5	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
<i>BEHI</i>	Low-Very Low	0	Land Use/ Cover	Yes	N/A / STREAMS AND WATERWAYS
<i>Local NPSP</i>	No Evidence	0	Candidate Mussels	No	N/A
<i>Shoring Structures</i>	Not Present	0	Sturgeon C.H.	Yes	N/A
<i>Pipe Discharge</i>	Not Present	0			
<i>Water Odors</i>	Not Present	0			
<i>Fish Passage Barrier</i>	Not Present	0			
<i>RB: Riparian Buffer</i>	100+ ft	0			
<i>LB: Riparian Buffer</i>	100+ ft	0			
<i>RB: Floodplain Access</i>	Full	0			
<i>LB: Floodplain Access</i>	Full	0			
		River Threat Index: 1			
			Additional Site Features		
			<i>Stream Channel Woody Material:</i>	Infrequent	
			<i>Impoundments:</i>	None	
			<i>Substrate Composition:</i>	Medium Sand	
			<i>Bank Material:</i>	Sand and Roots	

Notes: Path leading down to point bar on LB. Large clear cut area on RB, partially see in above aerial photo.

Yellow River	co-0824-001	Severity Score 1																																																																																	
<u>Common:</u> 1.3mi SW of Horn Hill <u>Drainage:</u> Blackwater Bay <u>GPS:</u> 31.239741367, -86.337871556 <u>Land owner:</u> Unknown	<u>County:</u> Covington <u>PLSS:</u> 3N-17E-10 <u>Parcel No.:</u> 8	<u>State:</u> Alabama																																																																																	
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Yellow River	co-0819-001	Severity Score 1																																																																		
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Notes: Some erosion, but may be a natural meander incision.

Unnamed tributary

wa-0714-r-004

Sedimentation Risk Index
28

Common: 7.7mi NW of De Funiak Springs
Drainage: Gum Creek GPS: 30.805717, -86.199142
Land owner: Mary & Ted Frymire-US, Gloria Courtney-DS

County: Walton
PLSS(T-R-S): 4N-20-36
Parcel No.: 5.001; 2.9
Road Name: Andrews Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	D	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	28

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 15,31,32
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ HYDRIC PINE FLATWOODS, UNIMPROVED PASTURES, HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS drop off

Unnamed tributary	ok-0429-r-005	Sedimentation Risk Index 30																																																																		
<u>Common:</u> 4.4mi W of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.741414552, -86.641121324 <u>Land owner:</u> T.V. Kolmetz	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-24-22 <u>Parcel No.:</u> 3.20010 <u>Road Name:</u> Al Gillman Rd	<u>State:</u> Florida																																																																		
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Additional Site Features <p> <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 4,6,12,13,27,34,36,43,49,50,51,52 <u>Rt Approach Prism Fill:</u> 0.1in <u>Lt Approach Prism Fill:</u> 0.2in </p>	<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr><td>303(d)</td><td>Yes</td><td>COLIFORMS, TURBIDITY, MERCURY</td></tr> <tr><td>Wetland Species</td><td>Yes</td><td>1-3 FOCAL SPECIES IN UPLAND AREAS</td></tr> <tr><td>Rare and Imperiled</td><td>Yes</td><td>ALABAMA SHAD, ALLIGATOR GAR,BLUENOSE SHINER, GULF STURGEON,SPECKLED CHUB, IRONCOLOR SHINER,SPOTTED BULLHEAD, SPECKLED DARTER</td></tr> <tr><td>Land Use/ Cover</td><td>Yes</td><td>N/A/ WETLAND FORESTED MIX</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS	Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR,BLUENOSE SHINER, GULF STURGEON,SPECKLED CHUB, IRONCOLOR SHINER,SPOTTED BULLHEAD, SPECKLED DARTER	Land Use/ Cover	Yes	N/A/ WETLAND FORESTED MIX	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																														
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Land Use/ Cover	Yes	N/A/ WETLAND FORESTED MIX																																																																		
Candidate Mussels	No	N/A																																																																		
Sturgeon C.H.	No	N/A																																																																		

Notes: Private impounded system

Unnamed tributary

ok-0429-r-008

Sedimentation Risk Index
30

Common: 5.0mi W of Crestview
Drainage: Yellow River GPS: 30.735068394, -86.649976145
Land owner: James A. Gillman- US, Jake & Julia Phillips- DS

County: Okaloosa
PLSS(T-R-S): 3N-24-28
Parcel No.: 2, 6
Road Name: Al Gillman Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	30

**Additional Site Features**

Crossing Type and Quantity: Culvert, 1?
Crossing Materials: Unknown
Soil Types: 4,6,12,13,27,34,36,43,49,50,51,52
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
Wetland Species	No	N/A
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR,BLUENOSE SHINER, GULF STURGEON,SPECKLED CHUB, IRONCOLOR SHINER,SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/ Cover	Yes	AGRICULTURAL / HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Crossing structure unknown- inaccessible due to fenced off private property.

Unnamed tributary

co-0831-r-013

Sedimentation Risk Index

32

Common: 7.9mi SW of Opp
Drainage: Indian Creek GPS: 31.195797, -86.343972
Land owner: Unknown- Under 5AC not displayed

County: Covington
PLSS (T-R-S): 3N-17E-27
Parcel No.: Unknown
Road Name: Coon Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	32

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: BoB,CdC,MBA,OrC,OrE,TrB
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Fence across DS

Unnamed tributary

ok-0415-r-001

Sedimentation Risk Index
32

Common: 5.8mi NW of Crestview
Drainage: Cotton Creek GPS: 30.822903945, -86.637095506
Land owner: Ronald Lemoyne Showers-US, Leah Helms-DS

County: Okaloosa
PLSS(T-R-S): 4N-24-27
Parcel No.: 4-023/4-000
Road Name: Cotton Creek Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	High Risk	32

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Additional Site Features

Crossing Type and Quantity: Culvert, 3
Crossing Materials: Metal
Soil Types: 23,24,26,43,49
Rt Approach Prism Fill: 2.5in
Lt Approach Prism Fill: 2.0in



Notes: Pipe discharging US LT outlet. Road approaches in disrepair- not drivable.

Unnamed tributary

wa-0714-r-008

Sedimentation Risk Index
32

Common: 10.5mi NW of DeFuniak Springs
Drainage: Big Swamp Creek GPS: 30.856442,-86.192545
Land owner: J.B.& Betty Coon-US, R&J Farm LLC-DS

County: Walton
PLSS(T-R-S): 4N-20-12
Parcel No.: 5.001; 1.001
Road Name: Brown Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	PONDERED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	32

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 22,60
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 1.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/ Cover	Yes	PARCELS WITH NO VALUES/ FOREST REGENERATION AREAS, FALLOW CROP LAND
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Sediment island forming in pond due to loading from culvert. Fencing across DS pond access.

Unnamed tributary

wa-0723-r-001

Sedimentation Risk Index

32

Common: 6.3mi SE of Florala
Drainage: Caney Creek GPS: 30.943976144, -86.223062475
Land owner: Elizabeth Bopp-DS, Halver Brown Jr-US

County: Walton
PLSS (T-R-S): 5N-20-10-3000
Parcel No.: 7; 8
Road Name: Davis Rd

State: Florida

Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	D	1
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	32

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 6,13,14,15,31,32,59,60
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 1.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ MIXED SCRUB-SHRUB WETLAND
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary

co-0904-r-005

Sedimentation Risk Index
34

Common: 6.9mi SE of Andalusia
Drainage: Yellow River GPS: 31.238533971, -86.399938336
Land owner: Dixon Family -US, Rayonier Woodlands LLC -DS

County: Covington
PLSS (T-R-S): 3N-16E-12
Parcel No.: 4; 5
Road Name: Willy Moore Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

**Additional Site Features**

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: CdB,CdC,DmB
Rt Approach Prism Fill: 0.4in
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: High bare sediment fill over culvert.

Unnamed tributary	co-0904-r-013	Sedimentation Risk Index 34																																																																		
<u>Common:</u> 8.2mi SE of Andalusia <u>Drainage:</u> Taylor Mill Creek <u>GPS:</u> 31.244398941, -86.366858575 <u>Land owner:</u> J.E. Suggs -US, Delmar & Shirley Wiggins -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-17E-8 <u>Parcel No.:</u> 1; 7.01 <u>Road Name:</u> J.D. White Rd	<u>State:</u> Alabama																																																																		
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> PVC <u>Soil Types:</u> BnB,CdB,CdC,OrC <u>Rt Approach Prism Fill:</u> 0.1in <u>Lt Approach Prism Fill:</u> 0.25in	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H.	Within Range No No No Yes No No	Descriptive Field N/A N/A N/A N/A/ DEVELOPED OPEN SPACE N/A N/A																																																																	

Notes: Culvert mostly buried. Ponded farther US.

Unnamed tributary

co-0904-r-014

Sedimentation Risk Index
34

Common: 7.9mi SE of Andalusia
Drainage: Taylor Mill Creek GPS: 31.252739496, -86.366697254
Land owner: Timmy Kendrick -DS, Warren White -US

County: Covington State: Alabama
PLSS (T-R-S): 3N-17E-5
Parcel No.: 11; 15
Road Name: J.D. White Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
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<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: BnB,CdB,CdC,MBA,OrE,TrB
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Some build up of woody material US. Rip rap in stream channel.

Unnamed tributary

co-1027-r-007

Sedimentation Risk Index
34

Common: 5.5mi NW of Opp
Drainage: Mulberry Creek GPS: 31.344206188, -86.315045276
Land owner: Mary Bobo -US, Jack & Mary Odom -DS

County: Covington
PLSS (T-R-S): 4N-17E-2
Parcel No.: 1.02; 16
Road Name: Oscar Pugh Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

**Additional Site Features**

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: CdB,CdC,MBA,OrB,OrC,OrE
Rt Approach Prism Fill: 0.75in
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ SESSILE SHRUB, SCRUB (OTHER), EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: 1 culvert draining pond with 1.5ft drop off, 2nd culvert for road crossing.

Unnamed tributary

ok-0526-r-007

Sedimentation Risk Index
34

Common: 2.9mi NE of Blackman
Drainage: Big Horse Creek GPS: 30.965411, -86.626289
Land owner: James Hart- US, Lonnie Hughes Jr-DS

County: Okaloosa
PLSS(T-R-S): 5N-24-03
Parcel No.: 4, 1.0040
Road Name: Horsecreek Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

**Additional Site Features**

Crossing Type and Quantity: Culvert,1
Crossing Materials: Metal
Soil Types: 35,39,40,52
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/ Cover	Yes	PARCELS WITH NO VALUES/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Culvert inlet collecting woody debris.

Unnamed tributary

wa-0714-r-009

Sedimentation Risk Index
34

Common: 10.6mi NW of DeFuniak Springs
Drainage: Big Swamp Creek GPS: 30.858440, -86.196613
Land owner: Ronald & David Herring

County: Walton
PLSS(T-R-S): 4N-20-12
Parcel No.: 1.002
Road Name: Brown Rd

State: Florida



Crossing Structure: US

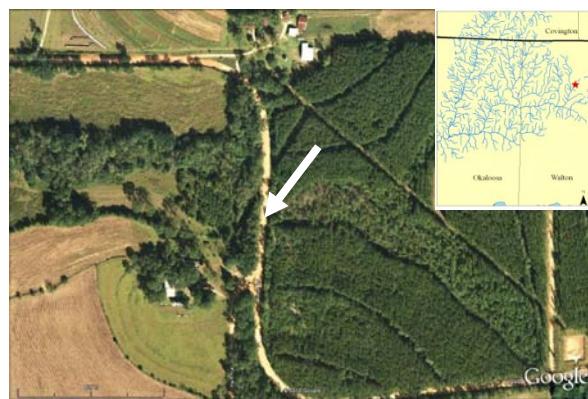


DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	34

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 13,15,25,26,31
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 3.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPED DARTER
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Directly DS from impounded system of previous crossing.

Unnamed tributary

co-0904-r-015

Sedimentation Risk Index
36

Common: 6.1mi SE of Andalusia
Drainage: Anderson Branch GPS: 31.264062340, -86.394527585
Land owner: Roy & Debbie -US, James & Mertha Carter -DS

County: Covington State: Alabama
PLSS (T-R-S): 4N-17E-31/3N-17E-6
Parcel No.: 8;4
Road Name: Cotton House Rd

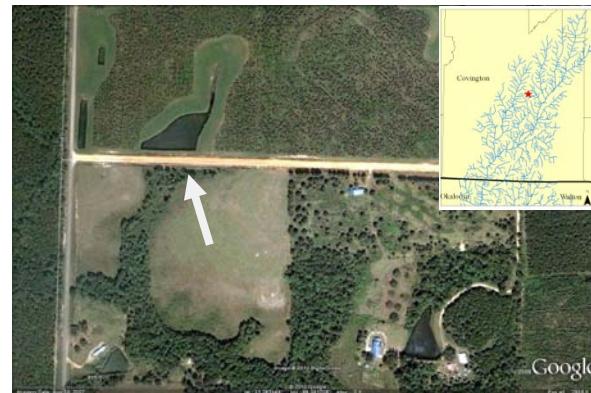


Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	High Risk	36



Additional Site Features	
<u>Crossing Type and Quantity:</u>	Culvert, 1
<u>Crossing Materials:</u>	Metal
<u>Soil Types:</u>	CdC,DmB,FoA,FuB,MBA
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.2in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Fencing across DS.

Unnamed tributary

co-1027-r-005

Sedimentation Risk Index

36

Common: 6.0mi NW of Opp
Drainage: Yellow River GPS: 31.344301959, -86.326408847
Land owner: Oscar Pugh - DS, Robert & Janell Morgan -US

County: Covington
PLSS (T-R-S): 4N-17E-2
Parcel No.: 13; 14
Road Name: Oscar Pugh Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	PONDED	1
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Rip Rap	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	High Risk	36



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ LOW INTENSITY DEVELOPED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: BnB,CdB,CdC,OrB,OrC,OrE
Rt Approach Prism Fill: 0.75in
Lt Approach Prism Fill: 1.5in

Notes: Outfall drop

Indigo Creek

ok-0429-r-002

Sedimentation Risk Index
36

Common: 4.1mi E of Holt
Drainage: Yellow River GPS: 30.729581195, -86.677171871
Land owner: Dorothy Kennedy

County: Okaloosa
PLSS(T-R-S): 3N-24-30
Parcel No.: 6
Road Name: Gilmore Rd



Crossing Structure: US



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	High Risk	36

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 12,13,23,24,25,34,36,37,43,49
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ FRESHWATER MARSHES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Turbidity curtain DS and silt fencing in place both US/DS. Failing BMPs.

Unnamed tributary	co-0729-r-005	Sedimentation Risk Index 38																																																																																							
<u>Common:</u> 5.2mi NW of Laurel Hill <u>Drainage:</u> Yellow River <u>GPS:</u> 31.002444, -86.535722 <u>Land owner:</u> Rayonier Woodlands LLC- US; Unknown-DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-15E-34 <u>Parcel No.:</u> 7 <u>Road Name:</u> Walker Rd	<u>State:</u> Alabama																																																																																							
																																																																																									
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Sturgeon C.H.	No	N/A																																																																																							

Notes: Rt culvert blocked with sediment.

Unnamed tributary	co-0831-r-010	<i>Sedimentation Risk Index</i> 38																																																																		
<u>Common:</u> 6.3mi SW of Opp <u>Drainage:</u> Indian Creek <u>GPS:</u> 31.216278, -86.329078 <u>Land owner:</u> Clidie Lee Harper LE-DS, Carolyn & Ben Ellis Jr.-US	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-17E-22/23 <u>Parcel No.:</u> 1; 14 <u>Road Name:</u> Harrell Rd	<u>State:</u> Alabama																																																																		
																																																																				
Crossing Structure: US		US																																																																		
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 2 <u>Crossing Materials:</u> PVC <u>Soil Types:</u> CdB,CdC,FuB,OrC,OrE <u>Rt Approach Prism Fill:</u> 0.75in <u>Lt Approach Prism Fill:</u> 0.5in		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Feature</th> <th style="text-align: left;">Within Range</th> <th style="text-align: left;">Descriptive Field</th> </tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>No</td><td>N/A</td></tr> <tr><td>Land Use/ Cover</td><td>Yes</td><td>N/A/ DEVELOPED OPEN SPACE</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																													
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Sturgeon C.H.	No	N/A																																																																		

Notes: None

Canoe Creek

ok-0429-r-001

Sedimentation Risk Index
38

Common: 7.4mi E of Harold
Drainage: Yellow River GPS: 30.672943718, -86.756427066
Land owner: Richard & Genevieve George-US, John & Vickie Howzie-DS

County: Okaloosa
PLSS(T-R-S): 2N-25-16
Parcel No.: 3, 3.1250
Road Name: Log Lake Rd



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	38

Additional Site Features

Crossing Type and Quantity: Culvert, 3; Bridge, 1
Crossing Materials: Metal; Wood
Soil Types: 43,50
Rt Approach Prism Fill: 0.75in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Impoundment causing fish blockage, 3 culverts US 30ft from bridge.

Little Horse Creek

ok-0526-r-005

Sedimentation Risk Index
38

Common: 3.6mi NE of Blackman
Drainage: Big Horse Creek GPS: 30.966150, -86.603157
Land owner: Charles & Wanda Baston

County: Okaloosa
PLSS(T-R-S): 5N-24-01
Parcel No.: 4
Road Name: Johnson Rd

State: Florida



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y ³	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	38

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 38,39,40,41,43,52,56
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 1.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ IMPROVED PASTURES
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Wire spanning under bridge, DS.

Clear Creek

ok-1005-r-002

Sedimentation Risk Index
38

Common: 7.2mi NE of Crestview
Drainage: Poverty Creek GPS: 30.812152272, -86.463812135
Land owner: Clear Creek Investments-US, Thomas & Shirley Akers-DS

County: Okaloosa
PLSS(T-R-S): 4N-22-29
Parcel No.: 1.1370/1.0900
Road Name: Clear Creek Dam Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Other	0
<i>Upstream Lt Outlet</i>	Other	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	38

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 20,24,25,50
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ RESERVOIRS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS drop off. Water control structure.

Unnamed tributary	wa-0714-r-007	Sedimentation Risk Index 38																																																																																							
<u>Common:</u> 10.3mi NW of DeFuniak Springs <u>Drainage:</u> Big Swamp Creek <u>GPS:</u> 30.855673, -86.191371 <u>Land owner:</u> J.B. & Betty Coon-DS, Unknown US	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 4N-20-12 <u>Parcel No.:</u> 5.001 <u>Road Name:</u> Bryan Rd	<u>State:</u> Florida																																																																																							
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Sturgeon C.H.	No	N/A																																																																																							

Notes: Impounded system directly DS at next crossing.

Unnamed tributary

wa-0722-r-008

Sedimentation Risk Index
38

Common: 5.3mi N of DeFuniak Springs
Drainage: Gum Creek GPS: 30.795394, -86.138400
Land owner: Russell Ray- US, Dennis Ray-DS

County: Walton State: Florida
PLSS (T-R-S): 4N-19-34-20000
Parcel No.: 1.10; 9
Road Name: Piney Grove Church Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
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<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	38

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 10,11,13,22,23,35,39
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary		wa-0723-r-002		Sedimentation Risk Index 38																																																																																																														
<u>Common:</u> 7.6mi SE of Florala		<u>County:</u> Walton		<u>State:</u> Florida																																																																																																														
<u>Drainage:</u> Caney Creek	<u>GPS:</u> 30.940363380, -86.226391177	<u>PLSS (T-R-S):</u> 5N-20-10-30000																																																																																																																
<u>Land owner:</u> Elizabeth Bopp-US, Orabelle Goodwin-DS		<u>Parcel No.:</u> 7; 8																																																																																																																
		<u>Road Name:</u> Adams Rd																																																																																																																
																																																																																																																		
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Additional Site Features <p><u>Crossing Type and Quantity:</u> Culvert, 4</p> <p><u>Crossing Materials:</u> Metal</p> <p><u>Soil Types:</u> 6,15,59,60</p> <p><u>Rt Approach Prism Fill:</u> 0.5in</p> <p><u>Lt Approach Prism Fill:</u> 1.0in</p>		<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Rare and Imperiled</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Land Use/ Cover</td> <td>Yes</td> <td>AGRICULTURAL/ MIXED SCRUB-SHRUB WETLAND</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table>			Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	AGRICULTURAL/ MIXED SCRUB-SHRUB WETLAND	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																																																																									
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Notes: None

Unnamed tributary

cf-1103-r-008

Sedimentation Risk Index
40

Common: 1.0mi NE of Danleys Crossroads
Drainage: Yellow River GPS: 31.42209700,-86.182725070
Land owner: G.A. Lindsey

County: Coffee
PLSS (T-R-S): 5N-19-07
Parcel No.: 1
Road Name: CR 374

State: Alabama



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
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<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Culvert,2
Crossing Materials: Metal
Soil Types: 7,8,21,22
Rt Approach Prism Fill: 0.15in
Lt Approach Prism Fill: 0.15in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Garbage DS; culverts coming from 2 different angles US.

Unnamed tributary	co-0731-r-001	Sedimentation Risk Index 40																																																																		
<u>Common:</u> 4mi NW of Laurel Hill <u>Drainage:</u> Larkin Creek <u>GPS:</u> 31.015056, -86.495487 <u>Land owner:</u> Rayonier Forest Resources LP-US, Unknown -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-16E-30 <u>Parcel No.:</u> 2 <u>Road Name:</u> Booth Rd	<u>State:</u> Alabama																																																																		
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Additional Site Features <p> <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> BoC,CdC,MBA,OrE,TrB,TrD <u>Rt Approach Prism Fill:</u> 0.5in <u>Lt Approach Prism Fill:</u> 0.25in </p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Feature</th> <th style="text-align: left;">Within Range</th> <th style="text-align: left;">Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Rare and Imperiled</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Land Use/ Cover</td> <td>Yes</td> <td>N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- OFFSITE HARDWOOD MODIFIER</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- OFFSITE HARDWOOD MODIFIER	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																														
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Notes: None

Unnamed tributary	co-0831-r-008	<i>Sedimentation Risk Index</i> 40																																																																		
<u>Common:</u> 6.8mi SW of Opp <u>Drainage:</u> Indian Creek <u>Land owner:</u> C&G LLC	<u>GPS:</u> 31.205856, -86.328747	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-17E-22/23 <u>Parcel No.:</u> 11 <u>Road Name:</u> Harrell Rd																																																																		
																																																																				
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<u>Common:</u> 8.7mi SE of Andalusia <u>Drainage:</u> Yellow River <u>GPS:</u> 31.223892778, -86.380534944 <u>Land owner:</u> Rayonier Woodlands LLC	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-17E-18 <u>Parcel No.:</u> 1 <u>Road Name:</u> Lost Forty Rd	<u>State:</u> Alabama																																																																																							
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Notes: Note sediment load in DS picture

Unnamed tributary	co-0904-r-012	<i>Sedimentation Risk Index</i> 40																																																																		
<u>Common:</u> 7.5mi SE of Andalusia <u>Drainage:</u> Taylor Mill Creek <u>GPS:</u> 31.249888783, -86.375431073 <u>Land owner:</u> Rayonier Woodlands LLC -US, J.D. Casady Heris -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-17E-5 <u>Parcel No.:</u> 10; 9 <u>Road Name:</u> Otis Maugen Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Notes: None

Mulberry Creek

co-1027-r-006

Sedimentation Risk Index
40

Common: 5.6mi NW of Opp
Drainage: Poley Creek GPS: 31.344171926, -86.317617422
Land owner: Larry Jones -US, David Tohmpson -DS

County: Covington
PLSS (T-R-S): 4N-17E-2
Parcel No.: 13.01; 13.02
Road Name: Oscar Pugh Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	40



Additional Site Features		
<u>Crossing Type and Quantity:</u>	Bridge, 1	
<u>Crossing Materials:</u>	Wood	
<u>Soil Types:</u>	CdB,CdC,MBA,OrB,OrC,OrE	
<u>Rt Approach Prism Fill:</u>	1.5in	
<u>Lt Approach Prism Fill:</u>	0.75in	

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Fencing across US

Unnamed tributary

co-1027-r-008

Sedimentation Risk Index
40

Common: 5.9mi NW of Opp
Drainage: Poley Creek GPS: 31.356190939, -86.305929163
Land owner: Billy & Mary Ashberry

County: Covington
PLSS (T-R-S): 5N-17E-36
Parcel No.: 5
Road Name: Gardeners Chapel Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Rip Rap	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	40



Additional Site Features	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Wood
<u>Soil Types:</u>	EsC,MbA,OrB,OrC,OrE,RdB,TrD
<u>Rt Approach Prism Fill:</u>	0.25in
<u>Lt Approach Prism Fill:</u>	0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Large, new rip rap placed in ditches.

Unnamed tributary	ok-0429-r-003	<i>Sedimentation Risk Index</i> 40																																																																		
<u>Common:</u> 4.2mi W of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.745881514, -86.637365798 <u>Land owner:</u> Tim & Nelda Flemming	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-24-22 <u>Parcel No.:</u> 3 <u>Road Name:</u> Al Gillman Rd	<u>State:</u> Florida																																																																		
																																																																				
Crossing Structure: US		US																																																																		
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SRI Total	Medium Risk	40																																																																		

Notes: Railroad crossing approx 100ft US.

Unnamed tributary	ok-0429-r-004	Sedimentation Risk Index 40																																																																		
<u>Common:</u> 4.4mi W of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.744474768, -86.6389025726 <u>Land owner:</u> Fred Young	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-24-22 <u>Parcel No.:</u> 4.2 <u>Road Name:</u> Al Gillman Rd	<u>State:</u> Florida																																																																		
																																																																				
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<i>Inlet/Outlet Condition</i>	No Impairment	5																																																																		
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Ditches Total	Unimproved Drainage System	1																																																																		
SRI Total	Medium Risk	40																																																																		

Notes: None

Unnamed tributary

ok-0429-r-007

Sedimentation Risk Index
40

Common: 4.5mi W of Crestview
Drainage: Yellow River GPS: 30.738421812, -86.643402911
Land owner: Phillips Family LTD

County: Okaloosa
PLSS(T-R-S): 3N-24-21
Parcel No.: 2.30040
Road Name: Al Gillman Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	40
Additional Site Features		
<u>Crossing Type and Quantity:</u>	Culvert, 1	
<u>Crossing Materials:</u>	Metal	
<u>Soil Types:</u>	4,6,12,13,27,34,36,43,49,50,51,52	
<u>Rt Approach Prism Fill:</u>	1.0in	
<u>Lt Approach Prism Fill:</u>	0.5in	



Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR,BLUENOSE SHINER, GULF STURGEON,SPECKLED CHUB, IRONCOLOR SHINER,SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/ Cover	Yes	AGRICULTURAL/WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Private impounded system US. Ladder leading DS.

Moores Mill Creek

ok-0526-r-002

Sedimentation Risk Index
40

Common: 6.1mi NW of Laurel Hill
Drainage: Yellow River
Land owner: J.D. Hughes Jr.

GPS: 30.989228, -86.559067

County: Okaloosa
PLSS(T-R-S): 6N-23-29
Parcel No.: 5
Road Name: Moores Mill Creek Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Synthetic	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	40

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 13,16,23,24,43,45,46,49,51,55
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS, TURBIDITY, MERCURY
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLUENOSE SHINER, ALABAMA SHAD, ALLIGATOR GAR, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/ Cover	Yes	AGRICULTURAL / WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rt approach paved until last 40yards.

Big Horse Creek		ok-0526-r-006	Sedimentation Risk Index 40																																																																																								
<u>Common:</u> 3mi NE of Blackman	<u>Drainage:</u> Yellow River	<u>GPS:</u> 30.961968, -86.610516	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 5N-24-02 <u>Parcel No.:</u> 7 <u>Road Name:</u> Horsecreek Rd																																																																																								
<u>Land owner:</u> Blackwater River State Forest																																																																																											
																																																																																											
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Notes: None

Unnamed tributary	ok-0526-r-011	<i>Sedimentation Risk Index</i> 40																																																																																							
<u>Common:</u> 1.8mi NE of Blackman <u>Drainage:</u> Big Horse Creek <u>GPS:</u> 30.927286, -86.606262 <u>Land owner:</u> Blackwater River State Forest	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 5N-24-14/13 <u>Parcel No.:</u> 1 <u>Road Name:</u> Peacock Rd	<u>State:</u> Florida																																																																																							
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Notes: None

Burnt Grocery Creek

sr-0401-r-001

Sedimentation Risk Index
40

Common: 2.4mi SE of Harold
Drainage: Yellow River
Land owner: The Nature Conservancy

GPS: 30.635267, -86.849675

County: Santa Rosa
PLSS(T-R-S): 2N-26-33
Parcel No.: 1
Road Name: Bobcat Trail

State: Florida



Crossing Structure: US



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
Outlet Total	Partially Improved Outlet System	3
Ditches Total	Unimproved Drainage System	1
SRI Total	Medium Risk	40

Additional Site Features

Crossing Type and Quantity: Culvert,1; Reservoir Drain, 1
Crossing Materials: Metal; Reinforced Concrete
Soil Types: 22,34,40
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.40in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ MDC - LOW DENSITY, FIXED SINGLE FAMILY UNITS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Drainage undersized to accommodate storm events. DS inundated.

Big Swamp Creek

wa-0714-r-002

Sedimentation Risk Index
40

Common: 6.6mi NE of Mossy Head
Drainage: Shoal River GPS: 30.802508, -86.226481
Land owner: Mary Frymire & Joe Johnson

County: Walton
PLSS(T-R-S): 4N-20-34
Parcel No.: 5
Road Name: Raley Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	40

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Wood
Soil Types: 4,15,31,32,48
Rt Approach Prism Fill: 2.0in
Lt Approach Prism Fill: 1.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/ Cover	Yes	N/A/ STREAMS AND WATERWAYS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary

wa-0714-r-006

Sedimentation Risk Index
40

Common: 10.4mi NW of DeFuniak Springs
Drainage: Big Swamp Creek GPS: 30.853328, -86.197277
Land owner: John & Annie Coon-US, Pauline Price-DS

County: Walton
PLSS(T-R-S): 4N-20-12
Parcel No.: 5; 4
Road Name: Price Rd

State: Florida



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	40

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 15,25,26,60
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS drop off creating partial fish passage barrier.

Big Swamp Creek

wa-0714-r-010

Sedimentation Risk Index
40

Common: 10.7mi NE of Mossy Head
Drainage: Shoal River GPS: 30.860540, -86.202056
Land owner: Ronald & Dorothy Herring-US, David & Misty Herring-DS

County: Walton
PLSS(T-R-S): 4N-20-12
Parcel No.: 3.0; 3.002
Road Name: Brown Rd

State: Florida



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	40

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Reinforced Concrete
Soil Types: 15, 22, 25, 26, 31, 32, 42, 60
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 3.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPED DARTER
Land Use/ Cover	Yes	PARCELS WITH NO VALUES/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Road under construction at time of survey. Some erosion control attempts.

Bee Branch

wa-0722-r-003

Sedimentation Risk Index
40

Common: 8.4mi NE of Mossy Head
Drainage: Big Swamp Creek GPS: 30.842528, -86.235539
Land owner: Andrews Investments LLC 50%, Charles Jones 50%

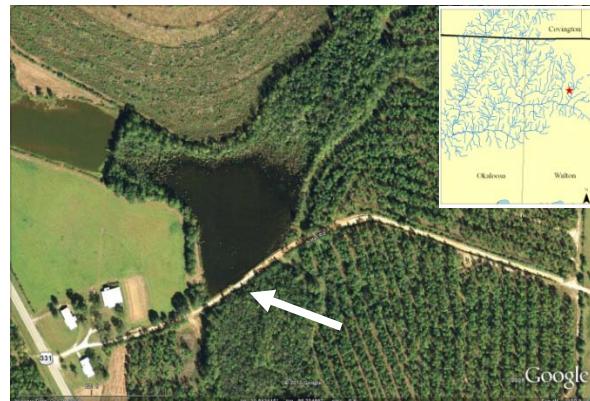
County: Walton
PLSS(T-R-S): 4N-20-15-29000
Parcel No.: 6
Road Name: Elmer Jones Rd



Crossing Structure: Lt Approach



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	40

Additional Site Features

Crossing Type and Quantity: Ford, 1
Crossing Materials: Reinforced Concrete
Soil Types: 6,15,25,26,35,60,
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Fencing across DS

Unnamed tributary	co-0729-r-004	Sedimentation Risk Index 42																																																																																							
<u>Common:</u> 5.2mi NW of Laurel Hill <u>Drainage:</u> Yellow River <u>GPS:</u> 31.005470, -86.534821 <u>Land owner:</u> Rayonier Woodlands LLC	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 1N-15E-34 <u>Parcel No.:</u> 7 <u>Road Name:</u> Walker Rd	<u>State:</u> Alabama																																																																																							
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Sturgeon C.H.	No	N/A																																																																																							

Notes: Close proximity to YR main stem. Rip rap in stream bed.

Unnamed tributary

co-0729-r-006

Sedimentation Risk Index
42

Common: 3.2mi NW of Laurel Hill
Drainage: Big Creek
Land owner: Dwight Steele

GPS: 30.997012, -86.499121

County: Covington
PLSS (T-R-S): 6N-23W-24
Parcel No.: 2
Road Name: Steele Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Vegetated	1
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<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	42

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Wood
Soil Types: CdC,DmB,MBA,OrB,OrC,TrB,TrD
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ SUCCESSIONAL SHRUB, SCRUB (CLEAR CUT)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Outlet sediment loading severe US.

Unnamed tributary	co-0729-r-007	<i>Sedimentation Risk Index</i> 42																																																																		
<u>Common:</u> 2.4mi NW of Laurel Hill <u>Drainage:</u> Big Creek <u>Land owner:</u> Andy Campbell	<u>GPS:</u> 30.993519, -86.484894	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 6N-22W-30 <u>Parcel No.:</u> 2 <u>Road Name:</u> Steele Rd																																																																		
																																																																				
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Notes: Very little water flowing under bridge.

Unnamed tributary	co-0831-r-007	<i>Sedimentation Risk Index</i> 42																																																																																							
<u>Common:</u> 6.1mi SW of Opp <u>Drainage:</u> Mulberry Creek <u>Land owner:</u> Elma Sasser LE	<u>GPS:</u> 31.208589, -86.311083	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-17E-24 <u>Parcel No.:</u> 15 <u>Road Name:</u> Tweedle Bell Rd																																																																																							
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Notes: None

Unnamed tributary	co-0831-r-011	<i>Sedimentation Risk Index</i> 42																																																																		
<u>Common:</u> 6.6mi SW of Opp <u>Drainage:</u> Indian Creek <u>GPS:</u> 31.212997, -86.333344 <u>Land owner:</u> Clidie Lee Harper LE -US, Troy Riley Creane & Brett Riley -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-17E-22 <u>Parcel No.:</u> 1; 9 <u>Road Name:</u> Henderson Bridge Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Notes: Lots of clay loading.

Unnamed tributary

co-0831-r-015

Sedimentation Risk Index
42

Common: 6.8mi SW of Opp
Drainage: Mulberry Creek GPS: 31.198640, -86.315943
Land owner: Chester & Connie Harper-DS, Navajo Bawkum –US
West, Mary Nawlin –US East

County: Covington
PLSS (T-R-S): 3N-17E-26
Parcel No.: 6; 1; 7.01
Road Name: Crosby Clark Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	BEAVER DAM	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
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<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	42

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: CdB,CdC,DmB,MBA
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ SUCCESSIONAL SHRUB, SCRUB (CLEAR CUT)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: 1 culvert blocked

Unnamed tributary	co-0904-r-007	<i>Sedimentation Risk Index</i> 42																																																																		
<u>Common:</u> 7.2mi SE of Andalusia <u>Drainage:</u> Yellow River <u>GPS:</u> 31.238567047, -86.394405708 <u>Land owner:</u> Dixon Family LP -US, Shirley & William Colvin -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-17E-7 <u>Parcel No.:</u> 7.01; 11 <u>Road Name:</u> Willy Moore Rd	<u>State:</u> Alabama																																																																		
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Notes: None

Unnamed tributary

co-0904-r-008

Sedimentation Risk Index
42

Common: 8.8mi SE of Andalusia
Drainage: Yellow River GPS: 31.224030612, -86.370864491
Land owner: George Jr & Madge Powell-US, Jodie & Irene Wiggins-DS

County: Covington State: Alabama
PLSS (T-R-S): 3N-17E-17
Parcel No.: 4; 7
Road Name: Lost Forty Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	>30°	1
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	42

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: BnB,BnC,CdB,CdC
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Farm land US- pond seriously nutrient loaded.

Unnamed tributary

co-0904-r-018

Sedimentation Risk Index
42

Common: 3.4mi SW of Opp
Drainage: Indian Creek GPS: 31.239793676, -86.287003582
Land owner: Linnie Sharpe -DS, Jimmy & Rebecca Foster -US

County: Covington
PLSS (T-R-S): 3N-18E-7
Parcel No.: 5; 7.03
Road Name: Substation Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	42

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: BnC,CdB,CdC,DmB,FuB,OrE
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.15in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE, EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Strong manure odor.

Good Springs Creek

co-1102-r-006

Sedimentation Risk Index

42

Common: 2.2mi SE of Five Points
Drainage: Poley Creek GPS: 31.410767288,-86.290725527
Land owner: J&R Langford North, Troy & Kyle Creane South

County: Covington
PLSS (T-R-S): 5N-18E-7
Parcel No.: 8,2
Road Name: Chalker Rd

State: Alabama



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	42

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Wood
Soil Types: LuB,MBA,OrB,OrC,OrE,TrB,TrD
Rt Approach Prism Fill: 0.50in
Lt Approach Prism Fill: 0.10in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Honey Creek

ok-0409-r-001

Sedimentation Risk Index
42

Common: 6.5mi SE of Crestview
Drainage: Titi Creek GPS: 30.607561, -86.816481
Land owner: US Government- Eglin AFB

County: Okaloosa
PLSS(T-R-S): 2N-23-07
Parcel No.: 1
Road Name: RR211 East Eglin AFB



Crossing Structure: US



US



Google

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Other	0
<i>Upstream Lt Outlet</i>	Other	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Other	0
<i>Downstream Lt Outlet</i>	Other	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	42

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Reinforced Concrete
Soil Types: 12,25,26
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Cover/ Use	Yes	INSTITUTIONAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Hilltop to hilltop paving, but ditches are washing sediment down to pile on top of the bridge.

Unnamed tributary	ok-0429-r-006	<i>Sedimentation Risk Index</i> 42																																																																		
<u>Common:</u> 4.5mi W of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.739574285, -86.641770415 <u>Land owner:</u> T.V. Kolmetz	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 3N-24-22 <u>Parcel No.:</u> 3.20010 <u>Road Name:</u> Al Gillman Rd	<u>State:</u> Florida																																																																		
																																																																				
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Notes: Reservoir drain. DS inaccessible due to fencing off of private property																																																																				
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Unnamed tributary	ok-0526-r-008	<i>Sedimentation Risk Index</i> 42																																																																		
<u>Common:</u> 2.9mi N of Blackman <u>Drainage:</u> Big Horse Creek <u>GPS:</u> 30.965575, -86.629023 <u>Land owner:</u> James Hart-US, Unknown-DS	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 5N-24-03 <u>Parcel No.:</u> 4, 1.005A <u>Road Name:</u> Horsecreek Rd	<u>State:</u> Florida																																																																		
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Notes: Top cut off culvert.

Unnamed tributary	ok-0617-r-002	Sedimentation Risk Index 42																																																																																							
<u>Common:</u> 8.78mi NW of Crestview <u>Drainage:</u> Deadfall Creek <u>GPS:</u> 30.869556, -86.644992 <u>Land owner:</u> Lenwood Jackson-DS, Warren Griffith-US	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 4N-24-04 <u>Parcel No.:</u> 4, 5 <u>Road Name:</u> Lenwood Jackson Rd	<u>State:</u> Florida																																																																																							
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Notes: Oily sheen, LT buffer logged bare, severe erosion over culvert. Rip rap encircling DS. Impounded farther US.

Unnamed tributary

wa-0710-r-005

Sedimentation Risk Index
42

Common: 3.2mi NW of Mossy Head
Drainage: Shoal River GPS: 30.781183, -86.345665
Land owner: J. Laden Dewrell-DS, Delmar & Marlene Walker-US

County: Walton
PLSS(T-R-S): 3N-21-04/09
Parcel No.: 1.004; 1.009
Road Name: Jones Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
SRI Total	Medium Risk	42

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 15,17,31,33,35
Rt Approach Prism Fill: 0.75in
Lt Approach Prism Fill: 0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE SHINER
Land Use/ Cover	Yes	PARCELS WITH NO VALUES/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: 200ft of RT approach is paved. All Lt paved

Unnamed tributary

wa-0714-r-001

Sedimentation Risk Index

42

Common: 4.9mi NW of Mossy Head
Drainage: Wolf Branch GPS: 30.798529, -86.366837
Land owner: Theodore Lehmann Jr-US, John Mills-DS

County: Walton
PLSS(T-R-S): 4N-21-32
Parcel No.: 2.0011; 4
Road Name: Hinote Rd

State: Florida

Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
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<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	42

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 13,14,15,31,32,38
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.15in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIBE DARTER
Land Use/ Cover	Yes	AGRICULTURAL/ HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Grate over inlet.

Unnamed tributary	wa-0722-r-004	<i>Sedimentation Risk Index</i> 42																																																																	
<u>Common:</u> 8.5mi N of DeFuniak Springs <u>Drainage:</u> Gum Creek <u>Land owner:</u> Helen Poole	<u>County:</u> Walton <u>PLSS (T-R-S):</u> 4N-19-14-20000 <u>Parcel No.:</u> 01.50010 <u>Road Name:</u> Barlett Rd	<u>State:</u> Florida																																																																	
																																																																			
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 2 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 10,15,20,69 <u>Rt Approach Prism Fill:</u> 1.0in <u>Lt Approach Prism Fill:</u> 0.1in		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Feature</th> <th style="text-align: center;">Within Range</th> <th style="text-align: center;">Descriptive Field</th> </tr> </thead> <tbody> <tr><td>303(d)</td><td style="text-align: center;">No</td><td style="text-align: center;">N/A</td></tr> <tr><td>Wetland Species</td><td style="text-align: center;">No</td><td style="text-align: center;">N/A</td></tr> <tr><td>Rare and Imperiled</td><td style="text-align: center;">No</td><td style="text-align: center;">N/A</td></tr> <tr><td>Land Use/ Cover</td><td style="text-align: center;">Yes</td><td style="text-align: center;">AGRICULTURAL/ WETLAND FORESTED MIX</td></tr> <tr><td>Candidate Mussels</td><td style="text-align: center;">No</td><td style="text-align: center;">N/A</td></tr> <tr><td>Sturgeon C.H.</td><td style="text-align: center;">No</td><td style="text-align: center;">N/A</td></tr> </tbody> </table> 	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																												
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Notes: None

Unnamed tributary	wa-0722-r-006	<i>Sedimentation Risk Index</i> 42																																																																		
<u>Common:</u> 11.2mi N of DeFuniak Springs <u>Drainage:</u> Gum Creek <u>Land owner:</u> T.R. Miller Mill Co	<u>County:</u> Walton <u>PLSS (T-R-S):</u> 4N-18-06-11000 <u>Parcel No.:</u> 1.0 <u>Road Name:</u> T.R. Miller Rd	<u>State:</u> Florida																																																																		
																																																																				
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Sturgeon C.H.	No	N/A																																																																		

Notes: None

Larkin Creek

co-0729-r-003

Sedimentation Risk Index
44

Common: 5.4mi NW of Laurel Hill
Drainage: Yellow River GPS: 31.008716, -86.534784
Land owner: Charles & Ola Churchwell

County: Covington
PLSS (T-R-S): 1N-15E-34
Parcel No.: 6
Road Name: Walker Rd

State: Alabama



Crossing Structure: US



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Reinforced Concrete
Soil Types: BgA,FoA,IbA,KaA,MBA,TrD
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	Yes	METALS (MERCURY)
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- LOBLOLLY MODIFIER
Candidate Mussels	Yes	FUZZY PIGTOE, SOUTHERN SANDSHELL
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary

co-0731-r-002

Sedimentation Risk Index
44

Common: 5.1mi NW of Laurel Hill
Drainage: Larkin Creek GPS: 31.032136, -86.496928
Land owner: Rayonier Forest Resources LP

County: Covington
PLSS (T-R-S): 1N-15E-24
Parcel No.: 10
Road Name: Booth Rd



Crossing Structure: US

US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44



Additional Site Features		
<u>Crossing Type and Quantity:</u>	Bridge, 1	
<u>Crossing Materials:</u>	Reinforced Concrete	
<u>Soil Types:</u>	BoC,MBA, TrB, TrD	
<u>Rt Approach Prism Fill:</u>	1.0in	
<u>Lt Approach Prism Fill:</u>	1.0in	

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: US outlet sediment loading.

Larkin Creek

co-0731-r-003

Sedimentation Risk Index
44

Common: 5.7mi NW of Laurel Hill
Drainage: Yellow River GPS: 31.041678, -86.494814
Land owner: Rayonier Forest Resources

County: Covington
PLSS (T-R-S): 1N-16E-19
Parcel No.: 1
Road Name: Booth Rd

State: Alabama



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Bare soil	0
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: BoB,BoC,LuB,MBA,OrB,TrB,TrD
Rt Approach Prism Fill: 1.0in
Lt Approach Prism Fill: 0.75in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SOUTHERN MESIC SLOPE FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Woody debris build-up DS.

Taylor Mill Creek

co-0904-r-016

Sedimentation Risk Index
44

Common: 6.8mi SE of Andalusia
Drainage: Yellow River GPS: 31.278513547, -86.372965993
Land owner: C&R Wratchford -US, J&R Pate LE -DS

County: Covington
PLSS (T-R-S): 4N-17E-29/32
Parcel No.: 16; 5
Road Name: Ellis Griggs Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: BoC,CdB,DmB,FuB,MBA
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ SUCCESSIONAL SHRUB, SCRUB (CLEAR CUT)
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary	co-0904-r-017	<i>Sedimentation Risk Index</i> 44																																																																																							
<u>Common:</u> 2.8mi SW of Opp <u>Drainage:</u> Indian Creek <u>GPS:</u> 31.253022205, -86.287154176 <u>Land owner:</u> Charles Jr & Renee Burgess	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-18E-6 <u>Parcel No.:</u> 8.02 <u>Road Name:</u> Substation Rd	<u>State:</u> Alabama																																																																																							
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<i>US Channel Morph</i>	C	5																																																																																							
<i>DS Channel Morph</i>	C	5																																																																																							
<i>DS Bank Alteration</i>	HIGH	1																																																																																							
<i>Upstream Skew Angle</i>	>30°	1																																																																																							
<i>Crossing fill condition</i>	Good/Vegetated	5																																																																																							
<i>Inlet/Outlet Condition</i>	No Impairment	5																																																																																							
<i>Road Approach Material</i>	All Sand/Clay	3																																																																																							
<i>Potential Eroded Volume Mean</i>	<21 y³	5																																																																																							
<i>Approach Slope Mean</i>	>4%	1																																																																																							
<i>Soil K Factor</i>	<0.20	5																																																																																							
<i>Upstream Rt Outlet</i>	Vegetated	1																																																																																							
<i>Upstream Lt Outlet</i>	Bare soil	0																																																																																							
<i>Upstream Rt Ditch</i>	Vegetated	1																																																																																							
<i>Upstream Lt Ditch</i>	Vegetated	1																																																																																							
<i>Downstream Rt Outlet</i>	Vegetated	1																																																																																							
<i>Downstream Lt Outlet</i>	Vegetated	1																																																																																							
<i>Downstream Rt Ditch</i>	Vegetated	1																																																																																							
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<i>Ditches Total</i>	Improved Drainage System	5																																																																																							
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303(d)	No	N/A																																																																																							
Wetland Species	No	N/A																																																																																							
Rare and Imperiled	No	N/A																																																																																							
Land Use/ Cover	Yes	N/A/ PASTURE, HAY																																																																																							
Candidate Mussels	No	N/A																																																																																							
Sturgeon C.H.	No	N/A																																																																																							

Notes: Most of Rt approach paved

Poley Creek

co-1027-r-009

Sedimentation Risk Index
44

Common: 5.0mi NW of Opp
Drainage: Lightwood Knot
Land owner: Patricia Edge

GPS: 31.345664048, -86.296779154

County: Covington
PLSS (T-R-S): 4N-17E-1
Parcel No.: 1
Road Name: Wages Rd

State: Alabama



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	44



Additional Site Features	
<u>Crossing Type and Quantity:</u>	Bridge, 1
<u>Crossing Materials:</u>	Reinforced Concrete
<u>Soil Types:</u>	MBA,OrB,OrC,OrE,TrD
<u>Rt Approach Prism Fill:</u>	0.5in
<u>Lt Approach Prism Fill:</u>	0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/Cover	Yes	N/A/ PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: High sediment loads from outlets.

Mulberry Creek

co-1027-r-010

Sedimentation Risk Index
44

Common: 4.9mi NW of Opp
Drainage: Poley Creek GPS: 31.334838128, -86.309673279
Land owner: Jack and Mary Odom

County: Covington
PLSS (T-R-S): 4N-17E-1
Parcel No.: 3
Road Name: Carlisle Rd

State: Alabama



Crossing Structure: DS

US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44



Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Reinforced Concrete
Soil Types: MBA,OrB,OrC,OrE
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	No	N/A
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Good Springs Creek

co-1102-r-005

Sedimentation Risk Index
44

Common: 2.0mi S of Five Points
Drainage: Poley Creek GPS: 31.410927205,-86.301856745
Land owner: Charles & Stacy Hinds

County: Covington
PLSS (T-R-S): 5N-17E-12
Parcel No.: 1
Road Name: Chalker Rd

State: Alabama



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Culvert,1
Crossing Materials: Metal
Soil Types: Cdc,DmB,MBA,OrB,OrC
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.50in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Poley Creek

co-1102-r-009

Sedimentation Risk Index
44

Common: 2.2mi SE of Five Points
Drainage: Lightwood Knot GPS: 31.420291457, -86.273888041
Land owner: Paul Langford

County: Covington
PLSS (T-R-S): 5N-18E-8
Parcel No.: 7
Road Name: Mitchell Rd

State: Alabama



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Reinforced Concrete
Soil Types: MBA,OrB,OrC,OrE,TrD
Rt Approach Prism Fill: 0.75in
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SMAILL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary

co-1103-r-017

Sedimentation Risk Index

44

Common: 5.3mi E of Cedar Grove
Drainage: Poley Creek GPS: 31.352183333, -86.238752688
Land owner: T. Ivey Powell & Sons INC North, Ruth Cain South

County: Covington State: Alabama
PLSS (T-R-S): 5N-18E-34/4N-18E-3
Parcel No.: 3,3
Road Name: Cain Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Rip Rap	1
<i>Upstream Lt Ditch</i>	Rip Rap	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Wood
Soil Types: MBA,OrB,OrE,TrD
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SOUTHERN MESIC SLOPE FOREST, EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND-OFFSITE HARDWOOD MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Turkey Gobbler Creek

ok-0407-r-002

Sedimentation Risk Index
44

Common: 9.3mi SW of Crestview
Drainage: Yellow River GPS: 30.637169, -86.636894
Land owner: US Government- Eglin AFB

County: Okaloosa
PLSS(T-R-S): 2N-24-19
Parcel No.: 1
Road Name: RR 238 Eglin AFB



Crossing Structure: Rt Approach



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare Soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Concrete	0
<i>Upstream Rt Ditch</i>	Concrete	0
<i>Upstream Lt Ditch</i>	Concrete	0
<i>Downstream Rt Outlet</i>	Concrete	0
<i>Downstream Lt Outlet</i>	Concrete	0
<i>Downstream Rt Ditch</i>	Concrete	0
<i>Downstream Lt Ditch</i>	Concrete	0
<i>Outlet Total</i>	Unimproved Outlet System	1
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Ford, 1
Crossing Materials: Native Soil
Soil Types: 12, 13
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.1in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	INSTITUTIONAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Both approaches paved hilltop to hilltop

Mill Branch	ok-0512-r-007	Sedimentation Risk Index 44																																																																		
<u>Common:</u> 7.7mi NW of Crestview <u>Drainage:</u> Deadfall Creek <u>GPS:</u> 30.856417, -86.636839 <u>Land owner:</u> Blackwater River State Forest	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 4N-24-10 <u>Parcel No.:</u> 1 <u>Road Name:</u> H-52 Halloway Rd	<u>State:</u> Florida																																																																		
																																																																				
Crossing Structure: US	US																																																																			
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Additional Site Features <p> <u>Crossing Type and Quantity:</u> Culvert,1; Ford, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 23,24,25,43,49 <u>Rt Approach Prism Fill:</u> 0.1in <u>Lt Approach Prism Fill:</u> 0.1in </p>	<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>Yes</td> <td>1-3 FOCAL SPECIES IN UPLAND AREAS</td> </tr> <tr> <td>Rare and Imperiled</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Land Use/ Cover</td> <td>Yes</td> <td>PUBLIC/SEMI-PUBLIC/ WETLAND FORESTED MIX</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	PUBLIC/SEMI-PUBLIC/ WETLAND FORESTED MIX	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																														
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Candidate Mussels	No	N/A																																																																		
Sturgeon C.H.	No	N/A																																																																		

Notes: Insufficient culvert to drain US wetland- road turned into ford.

Little Horse Creek		ok-0526-r-003																																																																																						
<u>Common:</u> 8.3mi W of Laurel Hill	<u>GPS:</u> 30.955267, -86.604486	<u>County:</u> Okaloosa	<u>State:</u> Florida																																																																																					
<u>Drainage:</u> Big Horse Creek		<u>PLSS(T-R-S):</u> 5N-24-01																																																																																						
<u>Land owner:</u> Blackwater River State Forest		<u>Parcel No.:</u> 1																																																																																						
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Notes: None

Unnamed tributary	ok-0526-r-009	<i>Sedimentation Risk Index</i> 44																																																																																							
<u>Common:</u> 3mi NE of Blackman <u>Drainage:</u> Big Horse Creek <u>GPS:</u> 30.967639, -86.625359 <u>Land owner:</u> Lonnie Hughes Jr- US, Rhonda Nelson- DS	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 5N-24-03 <u>Parcel No.:</u> 1.0040, 1.002A <u>Road Name:</u> Owen Cotton Cemetery Rd	<u>State:</u> Florida																																																																																							
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Sturgeon C.H.	No	N/A																																																																																							

Notes: None

Bridge Branch

ok-1005-r-003

Sedimentation Risk Index

44

Common: 6mi E of Crestview
Drainage: Bear Creek GPS: 30.756197979, -86.469174761
Land owner: Courington Construction Inc

County: Okaloosa
PLSS(T-R-S): 3N-22-17
Parcel No.: 4.001
Road Name: Carousel Rd

State: Florida



Crossing Structure: US

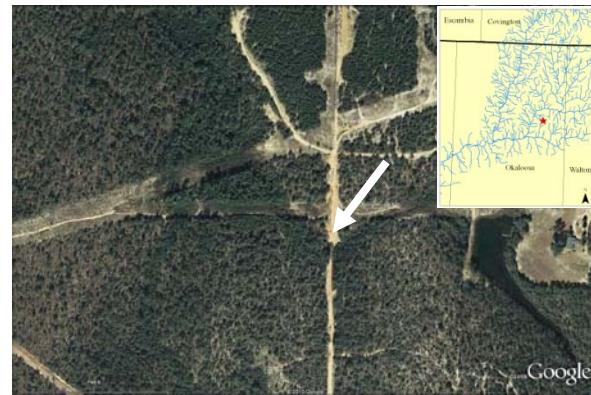


US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
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<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 12, 13, 25
Rt Approach Prism Fill: 2.0in
Lt Approach Prism Fill: 3.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	ACREAGE NOT ZONED FOR AGRICULTURE/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Highly vegetated.

Unnamed tributary

wa-0626-r-007

Sedimentation Risk Index
44

Common: 6.5mi SE of Florala
Drainage: Turkey Creek GPS: 30.926158, -86.267631
Land owner: James & Elizabeth Hall- US, Laura Wise-Adams-DS

County: Walton
PLSS: 5N-20-17/20
Parcel No.: 5; 3.001
Road Name: Pittman Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
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<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 6,13,60
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	Yes	COLIFORMS, TURBIDITY
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ CONIFEROUS PLANTATIONS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Dry at time of survey. Dead minnows in DS puddle.

Unnamed tributary	wa-0714-r-005	Sedimentation Risk Index 44																																																																																							
<u>Common:</u> 9.8mi NW of DeFuniak Springs <u>Drainage:</u> Big Swamp Creek <u>GPS:</u> 30.843701, -86.197376 <u>Land owner:</u> Vivian Worley-US, Juanita Courtney-DS	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 4N-20-13 <u>Parcel No.:</u> 3; 5 <u>Road Name:</u> Price Rd	<u>State:</u> Florida																																																																																							
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Notes: Aggregate getting into stream channel.

Unnamed tributary

wa-0722-r-009

Sedimentation Risk Index
44

Common: 6.4mi N of DeFuniak Springs
Drainage: Gum Creek GPS: 30.814542, -86.129770
Land owner: Johnny Padgey & Anne Waverly-US, Ralph Proctor-DS

County: Walton
PLSS (T-R-S): 4N-19-27-20000
Parcel No.: 1.0010;006.0000
Road Name: McLendon Rd

State: Florida



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	PONDED	1
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	HIGH	1
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Medium Risk	44

Additional Site Features

Crossing Type and Quantity: Culvert, 3
Crossing Materials: Metal
Soil Types: 10,13,29
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ CYPRESS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Pond drainage, but also culverts for road crossing.

Unnamed tributary	wa-0723-r-003	<i>Sedimentation Risk Index</i> 44																																																																		
<u>Common:</u> 7.2mi SE of Florala <u>Drainage:</u> Caney Creek <u>GPS:</u> 30.944042388, -86.230059991 <u>Land owner:</u> Elizabeth Bopp-DS, Deanna Wilson-US	<u>County:</u> Walton <u>PLSS (T-R-S):</u> 5N-20-10-30000 <u>Parcel No.:</u> 7; 2.001 <u>Road Name:</u> Davis Rd	<u>State:</u> Florida																																																																		
																																																																				
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Sturgeon C.H.	No	N/A																																																																		

Notes: Highly vegetated DS

Mulberry Creek

co-0831-r-006

Sedimentation Risk Index
46

Common: 6.4mi SW of Opp
Drainage: Indian Creek GPS: 31.199322, -86.303517
Land owner: Rayonier Forest Resources LP

County: Covington
PLSS (T-R-S): 3N-17E-25
Parcel No.: 1
Road Name: Tweedle Bell Rd



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
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<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	46

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Reinforced Concrete
Soil Types: BoB,BoC,CdB,CdC,FoA,FuB,MB,A
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 2.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ PASTURE,HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Common: <u>Drainage:</u> <u>Land owner:</u>	6.6mi SW of Opp Indian Creek C&G LLC	co-0831-r-009	Sedimentation Risk Index 46																																																																		
<u>GPS:</u>	31.208408, -86.328674	<u>County:</u> <u>PLSS (T-R-S):</u> <u>Parcel No.:</u> <u>Road Name:</u>	Covington 3N-17E-22/23 11 Harrell Rd																																																																		
																																																																					
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 2 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> BoC,CdB,CdC,FuB,MBA <u>Rt Approach Prism Fill:</u> 0.5in <u>Lt Approach Prism Fill:</u> 0.75in			<table border="1"> <thead> <tr> <th>Feature</th><th>Within Range</th><th>Descriptive Field</th></tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>No</td><td>N/A</td></tr> <tr><td>Land Use/ Cover</td><td>Yes</td><td>N/A/ DEVELOPED OPEN SPACE</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																													
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Notes: None

Common: <u>Drainage:</u> <u>Land owner:</u>	7.8mi SE of Andalusia Poplar Creek GPS: 31.201271576, -86.441651591 David Sightler - US, Howard Sightler-DS	co-0901-r-003	Sedimentation Risk Index 46
<u>County:</u> <u>PLSS (T-R-S):</u> <u>Parcel No.:</u> <u>Road Name:</u>	Covington 3N-16E-27 2; 4 Wamblesville Rd		
			
Crossing Structure: DS		DS	
Risk Factor	Ranking	Score	
<i>US Channel Morph</i>	C	5	
<i>DS Channel Morph</i>	E	5	
<i>DS Bank Alteration</i>	NATURAL	5	
<i>Upstream Skew Angle</i>	5-30°	3	
<i>Crossing fill condition</i>	Poor/Bare soil	1	
<i>Inlet/Outlet Condition</i>	Sed Islands/Scouring	3	
<i>Road Approach Material</i>	All Aggregate	5	
<i>Potential Eroded Volume Mean</i>	<21 y³	5	
<i>Approach Slope Mean</i>	2.1-4%	3	
<i>Soil K Factor</i>	0.21-0.40	3	
<i>Upstream Rt Outlet</i>	Vegetated	1	
<i>Upstream Lt Outlet</i>	Vegetated	1	
<i>Upstream Rt Ditch</i>	Bare soil	0	
<i>Upstream Lt Ditch</i>	Vegetated	1	
<i>Downstream Rt Outlet</i>	Vegetated	1	
<i>Downstream Lt Outlet</i>	Vegetated	1	
<i>Downstream Rt Ditch</i>	Bare soil	0	
<i>Downstream Lt Ditch</i>	Bare soil	0	
<i>Outlet Total</i>	Improved Outlet System	5	
<i>Ditches Total</i>	Partially Improved Drainage System	3	
SRI Total	Low Risk	46	
Additional Site Features			
<i>Crossing Type and Quantity:</i>	Culvert, 1		
<i>Crossing Materials:</i>	Metal		
<i>Soil Types:</i>	CdC,DmB,FoA,RaA		
<i>Rt Approach Prism Fill:</i>	0.05in		
<i>Lt Approach Prism Fill:</i>	0.1in		
		Feature	Within Range
		303(d)	No
		Wetland Species	No
		Rare and Imperiled	No
		Land Use/ Cover	Yes
		Candidate Mussels	No
		Sturgeon C.H.	No
			N/A
			DEVELOPED OPEN SPACE, PASTURE, HAY
			N/A
			N/A
			N/A

Notes: None

Common: <u>Drainage:</u> <u>Land owner:</u>	7.0mi SE of Andalusia Yellow River GPS: 31.238586499, -86.397066995 Dixon Family -US, Rayonier Woodlands LLC -DS	co-0904-r-006	Sedimentation Risk Index 46																																																																		
<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-16E-12 <u>Parcel No.:</u> 4;5 <u>Road Name:</u> Willy Moore Rd																																																																					
																																																																					
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Notes: None																																																																					

Common: <u>Drainage:</u> <u>Land owner:</u>	8.0mi SE of Andalusia Yellow River <u>GPS:</u> 31.223841314, -86.390269522 Louise & Tip Grider -US, John E. Vick -DS	co-0904-r-011	Sedimentation Risk Index 46																																																																		
<u>County:</u> <u>PLSS (T-R-S):</u> <u>Parcel No.:</u> <u>Road Name:</u>	Covington 3N-17E-18 5;7 Lost Forty Rd																																																																				
																																																																					
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Notes: None

Good Springs Creek

co-1102-r-004

Sedimentation Risk Index
46

Common: 2.1mi S of Five Points
Drainage: Poley Creek GPS: 31.410927205,-86.301856745
Land owner: Charles & Stacy Hinds

County: Covington
PLSS (T-R-S): 5N-17E-12
Parcel No.: ?
Road Name: Chaker Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Low Risk	46

Additional Site Features

Crossing Type and Quantity: Culvert,1
Crossing Materials: Metal
Soil Types: CdC ,DmB ,MBA ,OrB
Rt Approach Prism Fill: 0.15in
Lt Approach Prism Fill: 0.25in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE, PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary		co-1103-r-013	Sedimentation Risk Index 46																																																																																								
<u>Common:</u> 5.7mi NE of Opp	<u>Drainage:</u> Poley Creek	<u>GPS:</u> 31.356551963,-86.210525437	<u>County:</u> Covington																																																																																								
<u>Land owner:</u> Mary Donaldson			<u>State:</u> Alabama																																																																																								
		<u>PLSS (T-R-S):</u> 5N-18E-36																																																																																									
		<u>Parcel No.:</u> 2																																																																																									
		<u>Road Name:</u> Piney Grove Rd																																																																																									
																																																																																											
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Additional Site Features <u>Crossing Type and Quantity:</u> Bridge,1 <u>Crossing Materials:</u> Reinforced Concrete <u>Soil Types:</u> MBA,OrB,OrC,TrD <u>Rt Approach Prism Fill:</u> 0.1in <u>Lt Approach Prism Fill:</u> 0.1in		<table border="1"> <thead> <tr> <th>Feature</th><th>Within Range</th><th>Descriptive Field</th></tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>No</td><td>N/A</td></tr> <tr><td>Land Use/ Cover</td><td>Yes</td><td>N/A/ DEVELOPED OPEN SPACE</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																																																				
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Sturgeon C.H.	No	N/A																																																																																									

Notes: None

Unnamed tributary

co-1103-r-014

Sedimentation Risk Index
46

Common: 5.0mi NE of Opp
Drainage: Pond Creek GPS: 31.345344991,-86.213353168
Land owner: Couis Cain

County: Covington
PLSS (T-R-S): 4N-18E-2
Parcel No.: 4
Road Name: Piney Grove Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	46



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ PASTURE, HAY
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Wood
Soil Types: MBA,OrB,OrC,TrD
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.25in

Notes: None

Unnamed tributary	ok-0223-r-005	Sedimentation Risk Index 46
<u>Common:</u> 3.9mi SE of Holt <u>Drainage:</u> Yellow River <u>GPS:</u> 30.662850, -86.772450 <u>Land owner:</u> The Nature Conservancy	<u>County:</u> Okaloosa <u>PLSS (T-R-S):</u> 2N-25-20 <u>Parcel No.:</u> 1 <u>Road Name:</u> Yellow River Log Lake Rd	<u>State:</u> Florida
		DS
Crossing Structure- US		
Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare Soil	1
<i>Inlet/Outlet Condition</i>	Blocked	1
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
SRI Total	Low Risk	46
Additional Site Features		
<i>Crossing Type and Quantity:</i>	Culvert, 1	
<i>Crossing Materials:</i>	Metal	
<i>Soil Types:</i>	6, 43, 50	
<i>Lt Approach Prism Fill:</i>	0.08in	
<i>Rt Approach Prism Fill:</i>	0.08in	
Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR,BLUENOSE SHINER, GULF STURGEON,SPECKLED CHUB, IRONCOLOR SHINER,SPOTTED BULLHEAD, SPECKLED DARTER
Land Use/ Cover	Yes	PUBLIC, SEMI-PUBLIC/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Woody material being caught at US entrance to culvert. DS drop off

Titi Creek

ok-0409-r-002

Sedimentation Risk Index
46

Common: 6.3mi SE of Crestview
Drainage: Shoal River GPS: 30.701603275, -86.492143871
Land owner: US Government- Eglin AFB

County: Okaloosa
PLSS(T-R-S): 2N-22-01
Parcel No.: 1
Road Name: RR207 Eglin AFB



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Riprap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	46

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Reinforced Concrete
Soil Types: 6,12,22,25,34,50
Rt Approach Prism Fill: 0.15in
Lt Approach Prism Fill: 1.0in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Cover/ Use	Yes	INSTITUTIONAL/ STREAMS AND WATERWAYS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS Lt Outlet aggregate boat launch.

Baggett Creek

ok-0617-r-001

Sedimentation Risk Index
46

Common: 6.4mi W of Crestview
Drainage: Yellow River GPS: 30.749119, -86.677778
Land owner: Benjamin & Mary Plenge- DS, Ouida Keyser-US

County: Okaloosa
PLSS(T-R-S): 3N-24-19
Parcel No.: 2.006, 1
Road Name: Keyser Mill Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	>4%	1
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Other	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Low Risk	46



Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 6,12,24,25,51
Rt Approach Prism Fill: 0.15in
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: US Rt outlet sand bag burn

Caney Creek

wa-0714-r-011

Sedimentation Risk Index
46

Common: 10.3mi SE of Florala
Drainage: Big Swamp Creek
Land owner: Angus Andrews Jr

GPS: 30.899538, -86.210733

County: Walton
PLSS(T-R-S): 5N-20-26
Parcel No.: 3
Road Name: Royce Gill Rd



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Low Risk	46

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Wood
Soil Types: 13,15,20,22,25,31
Rt Approach Prism Fill: 0.1in
Lt Approach Prism Fill: 1.0in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Approaches in bad condition; not drivable.

Unnamed tributary	co-0904-r-009	Sedimentation Risk Index 48																																																																		
<u>Common:</u> 8.7mi SE of Andalusia <u>Drainage:</u> Yellow River <u>GPS:</u> 31.223978682, -86.374240707 <u>Land owner:</u> George Jr& Madge Powell -US, Arthur & Felma Wiggins -DS	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-17E-17 <u>Parcel No.:</u> 4;8 <u>Road Name:</u> Lost Forty Rd	<u>State:</u> Alabama																																																																		
																																																																				
Crossing Structure: DS	US																																																																			
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> BnB,BnC,CdB,CdC,FuB,MBA <u>Rt Approach Prism Fill:</u> 0.25in <u>Lt Approach Prism Fill:</u> 0.25in	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H.	Within Range No No No Yes No No	Descriptive Field N/A N/A N/A N/A/ PASTURE, HAY N/A N/A																																																																	

Notes: None

Unnamed Tributary		co-1102-r-008	Sedimentation Risk Index 48																																																																																								
<u>Common:</u> 2.6mi SE of Five Points	<u>Drainage:</u> Poley Creek	<u>GPS:</u> 31.416936117,-86.268871573	<u>County:</u> Covington																																																																																								
<u>Land owner:</u> Jean Everage			<u>State:</u> Alabama																																																																																								
		<u>PLSS (T-R-S):</u> 5N-18E-8																																																																																									
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Additional Site Features <u>Crossing Type and Quantity:</u> Bridge,1 <u>Crossing Materials:</u> Reinforced Concrete <u>Soil Types:</u> LuB,MBA,OrB,OrC,OrE,TrD <u>Rt Approach Prism Fill:</u> 0.25in <u>Lt Approach Prism Fill:</u> 0.25in		<table border="1"> <thead> <tr> <th>Feature</th><th>Within Range</th><th>Descriptive Field</th></tr> </thead> <tbody> <tr> <td>303(d)</td><td>No</td><td>N/A</td></tr> <tr> <td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr> <td>Rare and Imperiled</td><td>No</td><td>N/A</td></tr> <tr> <td>Land Use/ Cover</td><td>Yes</td><td>N/A/ ROW CROP</td></tr> <tr> <td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr> <td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>		Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A/ ROW CROP	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																																																			
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Notes: None

Unnamed tributary

co-1102-r-010

Sedimentation Risk Index

48

Common: 1.0mi NE of Five Points
Drainage: Poley Creek GPS: 31.443749815,-86.287363957
Land owner: Josephine Ray

County: Covington State: Alabama
PLSS (T-R-S): 6N-18E-31
Parcel No.: 10
Road Name: Jack Kelly Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	WETLAND	5
<i>DS Channel Morph</i>	WETLAND	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	21-40 y³	3
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
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<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	48



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ DEVELOPED OPEN SPACE
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Common: <u>Drainage:</u> <u>Land owner:</u>	co-1103-r-015	Sedimentation Risk Index 48																																																																		
3.3mi NW of Brooklyn Poley Creek GPS: 31.333270156,-86.221932759 Robert M Williams West, Jody J Jones East	County: <u>PLSS (T-R-S):</u> <u>Parcel No.:</u> <u>Road Name:</u>	Covington State: Alabama 4N-18E-11 6.01, 6 Piney Grove Rd																																																																		
																																																																				
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Additional Site Features <p><i>Crossing Type and Quantity:</i> Culvert, 2 <i>Crossing Materials:</i> Metal <i>Soil Types:</i> BnC,CdC,OrB <i>Rt Approach Prism Fill:</i> 0.15in <i>Lt Approach Prism Fill:</i> 0.5in</p>	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H.	Within Range No No No Yes No No	Descriptive Field N/A N/A N/A N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- OFFSITE HARDWOOD MODIFIER, SESSUAL SHRUB, SCRUB (OTHER) N/A N/A																																																																	

Notes: None

Unnamed tributary	ok-0223-r-003	Sedimentation Risk Index 48																																																																		
<u>Common:</u> 4.5mi SE of Holt <u>Drainage:</u> Yellow River <u>GPS:</u> 30.661542, -86.785647 <u>Land owner:</u> The Nature Conservancy	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 2N-25-19 <u>Parcel No.:</u> 1 <u>Road Name:</u> Yellow River Log Lake Rd	<u>State:</u> Florida																																																																		
																																																																				
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 6, 8, 50 <u>Lt Approach Prism Fill:</u> 0.25in <u>Rt Approach Prism Fill:</u> 0.25in	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H.	Within Range No Yes Yes Yes No No	Descriptive Field N/A 4-6 FOCAL SPECIES IN WETLAND AREAS ALABAMA SHAD, ALLIGATOR GAR,BLUENOSE SHINER, GULF STURGEON,SPECKLED CHUB, IRONCOLOR SHINER,SPOTTED BULLHEAD, SPECKLED DARTER PUBLIC, SEMI-PUBLIC/ WETLAND FORESTED MIX N/A N/A																																																																	

Notes: None

Unnamed tributary	ok-0407-r-001	Sedimentation Risk Index 48																																																																																							
<u>Common:</u> 8.3mi SW of Crestview <u>Drainage:</u> Turkey Gobbler Creek <u>GPS:</u> 30.646942, -86.616639 <u>Land owner:</u> US Government- Eglin AFB	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 2N-24-19 <u>Parcel No.:</u> 1 <u>Road Name:</u> RR 215 Eglin AFB	<u>State:</u> Florida																																																																																							
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Notes: Both approaches paved hilltop to hilltop

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<u>Common:</u> 6.6mi W of Laurel Hill <u>Drainage:</u> Yellow River <u>Land owner:</u> Cennie Stokes	<u>GPS:</u> 30.960997, -86.571319	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 5N-23-05 <u>Parcel No.:</u> 6 <u>Road Name:</u> Yellow Baptist Church Rd	<u>State:</u> Florida																																																																		
																																																																					
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Notes: None

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<u>Common:</u> 3.4mi N of Blackman <u>Drainage:</u> Dry Branch <u>Land owner:</u> Donald & Janet Fugate	<u>GPS:</u> 30.973309, -86.632652	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 5N-24-03-2770 <u>Parcel No.:</u> 0000.0300 <u>Road Name:</u> Bowen Rd																																																																		
																																																																				
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Additional Site Features <p> <u>Crossing Type and Quantity:</u> Bridge, 1 <u>Crossing Materials:</u> Wood <u>Soil Types:</u> 39,43,52 <u>Rt Approach Prism Fill:</u> 0.25in <u>Lt Approach Prism Fill:</u> 0.25in </p>	Feature	Within Range																																																																		
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	Rare and Imperiled	Yes																																																																		
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	Candidate Mussels	No																																																																		
	Sturgeon C.H.	No																																																																		

Notes: None

Burnt Grocery Creek

sr-0223-r-001

Sedimentation Risk Index
48

Common: 3mi SE of Harold
Drainage: Yellow River
Land owner: The Nature Conservancy

GPS: 30.626983, -86.846339

County: Santa Rosa
PLSS(T-R-S): 2N-26-33
Parcel No.: 1
Road Name: Fisher Old Mill Rd

State: Florida



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Low Risk	48

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 7,18,33,34
Rt Approach Prism Fill: 1.25in
Lt Approach Prism Fill: 0.75in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	4-6 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS Rt private residence, point source pollution potential.

Unnamed tributary	wa-0626-r-008	Sedimentation Risk Index 48																																																																																							
<u>Common:</u> 6.4mi SE of Florala <u>Drainage:</u> Turkey Creek <u>GPS:</u> 30.926191, -86.270866 <u>Land owner:</u> James & Elizabeth Hall- US, Cynthia Wise- DS	<u>County:</u> Walton <u>PLSS(T-R-S):</u> 17-5N-20; 20-5N-20 <u>Parcel No.:</u> 5;3 <u>Road Name:</u> Pittman Rd	<u>State:</u> Florida																																																																																							
																																																																																									
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Sturgeon C.H.	No	N/A																																																																																							
Additional Site Features <u>Crossing Type and Quantity:</u> Culvert, 2 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 6,13,30 <u>Rt Approach Prism Fill:</u> 0.1in <u>Lt Approach Prism Fill:</u> 0.1in																																																																																									

Notes: Culverts placed too high US, DS leading to impoundment.

Gum Creek

wa-0714-r-003

Sedimentation Risk Index
48

Common: 6.7mi NE of Mossy Head
Drainage: Shoal River GPS: 30.784156, -86.213087
Land owner: Arlene Victoria Engle Trustee

County: Walton
PLSS(T-R-S): 3N-20-02
Parcel No.: 7
Road Name: Engles Rd



Crossing Structure: DS



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	E	5
<i>DS Channel Morph</i>	E	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Poor/Bare soil	1
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Rip Rap	1
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Rip Rap	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Low Risk	48

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 15,31,35,48
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 1.5in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ HARDWOOD CONIFEROUS-MIXED
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: US RT and DS RT outlets are culverts.

Gum Creek

wa-0722-r-005

Sedimentation Risk Index
48

Common: 8.2mi N of DeFuniak Springs
Drainage: Shoal River GPS: 30.843435, -86.112790
Land owner: James & Hazel Rachels

County: Walton
PLSS (T-R-S): 4N-19-14-20000
Parcel No.: 1.00
Road Name: Bartlett Rd



Crossing Structure: US



US

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Native Soil	1
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	48

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Wood
Soil Types: 15,20,69
Rt Approach Prism Fill: 0.25
Lt Approach Prism Fill: 0.05in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ CONIFEROUS PLANTATIONS, HYDRIC PINE FLATWOODS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary	co-0831-r-014	Sedimentation Risk Index 50																																																																		
<u>Common:</u> 8.3mi SW of Opp <u>Drainage:</u> Indian Creek <u>GPS:</u> 31.190044, -86.345447 <u>Land owner:</u> Rayonier Woodlands LLC -DS, Effie Harage LE -US	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 3N-17E-33/34 <u>Parcel No.:</u> 1; 3 <u>Road Name:</u> Coon Rd	<u>State:</u> Alabama																																																																		
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Crossing Structure: US																																																																				
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Additional Site Features <p> <u>Crossing Type and Quantity:</u> Bridge, 1 <u>Crossing Materials:</u> Reinforced Concrete <u>Soil Types:</u> BoB, BoC, FoA, MBA <u>Rt Approach Prism Fill:</u> 0.1in <u>Lt Approach Prism Fill:</u> 0.01in </p>	<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Rare and Imperiled</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Land Use/ Cover</td> <td>Yes</td> <td>N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- LOBLOLLY MODIFIER</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- LOBLOLLY MODIFIER	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																														
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Notes: Fence across US

Poley Creek

co-1102-r-007

Sedimentation Risk Index
50

Common: 2.9mi SE of Five Points
Drainage: Lightwood Knot GPS: 31.407671902,-86.273104606
Land owner: Paul Langford Tr. 3- North, Faye Rowls & Jordan Langford -SE, B & K Grahm - SW

County: Covington
PLSS (T-R-S): 5N-18E-17
Parcel No.: 3.04,3, 3.01
Road Name: Chalker Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	>40 y³	1
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Rip Rap	1
<i>Upstream Lt Outlet</i>	Rip Rap	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Rip Rap	1
<i>Downstream Lt Outlet</i>	Rip Rap	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
SRI Total	Low Risk	50

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Reinforced Concrete
Soil Types: BgA,LuB,MBA,OrB,OrC,OrE,TrD
Rt Approach Prism Fill: 0.10in
Lt Approach Prism Fill: 0.25in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary

co-1103-r-001

Sedimentation Risk Index

50

Common: 1.4mi NE of Eoda
Drainage: Good Springs GPS: 31.383869544,-86.297141303
Land owner: Austin & Robin Baley

County: Covington State: Alabama
PLSS (T-R-S): 5N-17E-24
Parcel No.: 05
Road Name: Meadows Rd



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Vegetated	1
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Bare soil	0
<i>Downstream Lt Outlet</i>	Bare soil	0
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Low Risk	50

Additional Site Features

Crossing Type and Quantity: Culvert,1
Crossing Materials: Metal
Soil Types: LuB,MBA,OrC,TrD
Rt Approach Prism Fill: 0.25in
Lt Approach Prism Fill: 0.1in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A/ EAST GULF COASTAL PLAIN INTERIOR UPLAND LONGLEAF PINE WOODLAND- LOBLOLLY MODIFIER
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rip rap in stream bed creating partial fish passage barrier.

Julian Mill Creek

sr-0223-r-002

Sedimentation Risk Index
50

Common: 5.2mi E of Harold
Drainage: Yellow River
Land owner: Alma Crain

GPS: 30.661269, -86.794267

County: Santa Rosa
PLSS(T-R-S): 2N-26-24
Parcel No.: 1
Road Name: Garner Landing

State: Florida



Crossing Structure: DS



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	2.1-4%	3
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Low Risk	50

Additional Site Features

Crossing Type and Quantity: Culvert, 2
Crossing Materials: Metal
Soil Types: 14,21,22,34,40,44,46
Rt Approach Prism Fill: 0.08in
Lt Approach Prism Fill: 0.08in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	Yes	1-3 FOCAL SPECIES IN UPLAND AREAS
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: DS Lt Outlet vegetated, but doing little for the large amounts of sediment. DS outfall drop.

Bee Branch

wa-0722-r-002

Sedimentation Risk Index
50

Common: 8.2mi NE of Mossy Head
Drainage: Big Swamp Creek
Land owner: James Cecil Hall

GPS: 30.832996-86.229162

County: Walton
PLSS(T-R-S): 4N-20-22-29000
Parcel No.: 1.002
Road Name: Old Dairy Rd

State: Florida



Crossing Structure: US



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	DA	3
<i>DS Channel Morph</i>	DA	3
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
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<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Bare soil	0
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Unimproved Drainage System	1
SRI Total	Low Risk	50

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Wood
Soil Types: 3,13,14,15,31,32,61
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.75in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	PARCELS WITH NO VALUES/ MDC - LOW DENSITY, FIXED SINGLE FAMILY UNITS
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Farm along both approaches.

Unnamed tributary	wa-0722-r-007	Sedimentation Risk Index 50																																																																		
<u>Common:</u> 11 mi N of DeFuniak Springs <u>Drainage:</u> Gum Creek <u>Land owner:</u> T.R. Miller Mill Co	<u>County:</u> Walton <u>PLSS (T-R-S):</u> 04N-18-06-11000 <u>Parcel No.:</u> 1.0 <u>Road Name:</u> T.R. Miller Rd	<u>State:</u> Florida																																																																		
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Additional Site Features <p> <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 10,11,13,22,23,35,39,69 <u>Rt Approach Prism Fill:</u> 0.15in <u>Lt Approach Prism Fill:</u> 0.1in </p>	<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>No</td><td>N/A</td></tr> <tr><td>Land Use/ Cover</td><td>Yes</td><td>AGRICULTURAL/HYDRIC PINE FLATWOODS</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	Yes	AGRICULTURAL/HYDRIC PINE FLATWOODS	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																														
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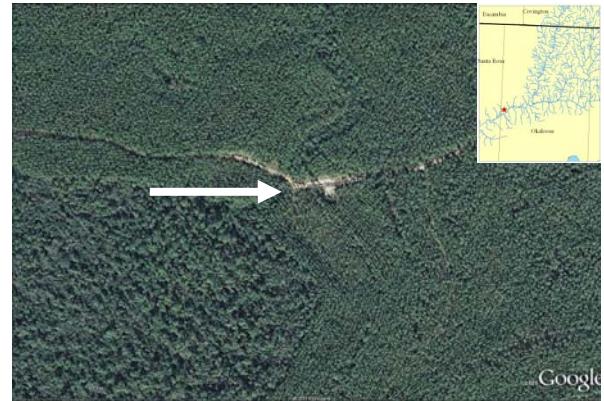
Notes: None

Indian Creek		co-0831-r-012	Sedimentation Risk Index 52
<u>Common:</u> 6.9mi SW of Opp	<u>Drainage:</u> Yellow River	<u>GPS:</u> 31.212869, -86.340139	<u>County:</u> Covington
<u>Land owner:</u> Clidie Lee Harper LE-US, James & Barbara McCart-DS			<u>State:</u> Alabama
		<u>PLSS (T-R-S):</u> 3N-17E-22	
		<u>Parcel No.:</u> 1; 6	
		<u>Road Name:</u> Henderson Bridge Rd	
			
Crossing Structure: DS		US	
Risk Factor	Ranking	Score	
<i>US Channel Morph</i>	C	5	
<i>DS Channel Morph</i>	C	5	
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3	
<i>Upstream Skew Angle</i>	<5°	5	
<i>Crossing fill condition</i>	Good/Vegetated	5	
<i>Inlet/Outlet Condition</i>	No Impairment	5	
<i>Road Approach Material</i>	All Sand/Clay	3	
<i>Potential Eroded Volume Mean</i>	<21 y³	5	
<i>Approach Slope Mean</i>	2.1-4%	3	
<i>Soil K Factor</i>	<0.20	5	
<i>Upstream Rt Outlet</i>	Vegetated	1	
<i>Upstream Lt Outlet</i>	Vegetated	1	
<i>Upstream Rt Ditch</i>	Bare soil	0	
<i>Upstream Lt Ditch</i>	Bare soil	0	
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<i>Downstream Lt Ditch</i>	Vegetated	1	
<i>Outlet Total</i>	Improved Outlet System	5	
<i>Ditches Total</i>	Partially Improved Drainage System	3	
SRI Total	Low Risk	52	
Additional Site Features			
<i>Crossing Type and Quantity:</i>	Bridge, 1		
<i>Crossing Materials:</i>	Reinforced Concrete		
<i>Soil Types:</i>	BnB,BnC,CdC,FoA,FuB,MBA,OrE		
<i>Rt Approach Prism Fill:</i>	0.25in		
<i>Lt Approach Prism Fill:</i>	0.1in		
Feature Within Range Descriptive Field			
303(d)	No	N/A	
Wetland Species	No	N/A	
Rare and Imperiled	No	N/A	
Land Use/ Cover	Yes	N/A/ PASTURE, HAY, SUCCESSIONAL SHRUB, SCRUB (CLEAR CUT)	
Candidate Mussels	No	N/A	
Sturgeon C.H.	No	N/A	

Notes: None

Unnamed tributary	co-1103-r-016	Sedimentation Risk Index 52																																																																		
<u>Common:</u> 2.28 NE of Opp <u>Drainage:</u> Poley Creek <u>GPS:</u> 31.314453730,-86.245187458 <u>Land owner:</u> Palmer & Mildred Ellis East, O.J. Spurlin Heirs West	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 4N-18E-15/16 <u>Parcel No.:</u> 11,8 <u>Road Name:</u> Jones Rd	<u>State:</u> Alabama																																																																		
																																																																				
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Additional Site Features <u>Crossing Type and Quantity:</u> Culvert,1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> BnC,CdB,CdC,MBA,OrB <u>Rt Approach Prism Fill:</u> 0.1in <u>Lt Approach Prism Fill:</u> 0.1in	Feature 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H.	Within Range No No No Yes No No	Descriptive Field N/A N/A N/A N/A/ SUCCESSIONAL SHRUB, SCRUB (OTHER) N/A N/A																																																																	

Notes: None

Unnamed tributary	ok-0223-r-004	Sedimentation Risk Index 52																																																																		
<u>Common:</u> 4.14mi SE of Holt <u>Drainage:</u> Yellow River <u>GPS:</u> 30.662569, -86.777975 <u>Land owner:</u> The Nature Conservancy	<u>County:</u> Okaloosa <u>PLSS(T-R-S):</u> 2N-25-19 <u>Parcel No.:</u> 1 <u>Road Name:</u> Yellow River Log Lake Rd	<u>State:</u> Florida																																																																		
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<u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 6, 8, 50 <u>Lt Approach Prism Fill:</u> N/A <u>Rt Approach Prism Fill:</u> 0.25in	<u>Feature</u> 303(d) Wetland Species Rare and Imperiled Land Use/ Cover Candidate Mussels Sturgeon C.H.	<u>Within Range</u> No Yes Yes Yes Yes No No	Descriptive Field N/A 1-3 FOCAL SPECIES IN UPLAND AREAS ALABAMA SHAD, ALLIGATOR GAR,BLUENOSE SHINER, GULF STURGEON,SPECKLED CHUB, IRONCOLOR SHINER,SPOTTED BULLHEAD, SPECKLED DARTER PUBLIC, SEMI-PUBLIC/WETLAND FORESTED MIX, CONIFEROUS PLANTATIONS N/A N/A																																																																	

Notes: Left road approach is a negative slope, therefore not contributing to sedimentation and not calculated.

Unnamed Tributary	ok-0226-r-006	Sedimentation Risk Index 52																																																																																						
<u>Common:</u> 4.2mi SW of Crestview <u>Drainage:</u> Yellow River <u>GPS:</u> 30.665139, -86.761744 <u>Land owner:</u> The Nature Conservancy	<u>County:</u> Okaloosa <u>PLSS (T-R-S):</u> 20-2N-24 <u>Parcel No.:</u> 1 <u>Road Name:</u> Log Lake Rd	<u>State:</u> Florida																																																																																						
																																																																																								
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Rare and Imperiled	Yes	ALABAMA SHAD, ALLIGATOR GAR, BLUENOSE SHINER, GULF STURGEON, SPECKLED CHUB, IRONCOLOR SHINER, SPOTTED BULLHEAD, SPECKLED DARTER																																																																																						
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Candidate Mussels	No	N/A																																																																																						
Sturgeon C.H.	No	N/A																																																																																						
Additional Site Features <p> <u>Crossing Type and Quantity:</u> Culvert, 1 <u>Crossing Materials:</u> Metal <u>Soil Types:</u> 43 <u>Lt Approach Prism Fill:</u> 0.4in <u>Rt Approach Prism Fill:</u> 0.25in </p>																																																																																								

Notes: Receives a lot of sediment when the road is graded. Culvert undersized.

Unnamed tributary	co-0811-r-001	Sedimentation Risk Index 54																																																																		
<u>Common:</u> 8.9mi NW of Florala <u>Drainage:</u> Yellow River <u>GPS:</u> 31.088983, -86.440317 <u>Land owner:</u> William Hicks & Phyllis Hicks Moody-DS, Lora Smith - US	<u>County:</u> Covington <u>State:</u> Alabama <u>PLSS (T-R-S):</u> 2N-16E-34/1N-16E-3 <u>Parcel No.:</u> 8; 4.03 <u>Road Name:</u> Yellow River Ranch Rd																																																																			
																																																																				
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Additional Site Features <u>Crossing Type and Quantity:</u> Bridge, 1 <u>Crossing Materials:</u> Wood <u>Soil Types:</u> BoC,CdC,DmB,FoA,FuB,MBA,TrB <u>Rt Approach Prism Fill:</u> 0.1in <u>Lt Approach Prism Fill:</u> 0.1in	<table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr> <td>303(d)</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Wetland Species</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Rare and Imperiled</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Land Use/ Cover</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Candidate Mussels</td> <td>No</td> <td>N/A</td> </tr> <tr> <td>Sturgeon C.H.</td> <td>No</td> <td>N/A</td> </tr> </tbody> </table>	Feature	Within Range	Descriptive Field	303(d)	No	N/A	Wetland Species	No	N/A	Rare and Imperiled	No	N/A	Land Use/ Cover	No	N/A	Candidate Mussels	No	N/A	Sturgeon C.H.	No	N/A																																														
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Candidate Mussels	No	N/A																																																																		
Sturgeon C.H.	No	N/A																																																																		

Notes: None

Unnamed tributary

co-1103-r-012

Sedimentation Risk Index
54

Common: 1.8mi SE of Friendship
Drainage: Poley Creek GPS: 31.379322157,-86.195769575
Land owner: Kayron Laska North, Lucille & Kayron McMinn South

County: Covington
PLSS (T-R-S): 5N-18E-24/25
Parcel No.: 1,2
Road Name: CR 397

State: Alabama



Crossing Structure: DS



DS



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Bare soil	0
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Bare soil	0
<i>Upstream Lt Ditch</i>	Bare soil	0
<i>Downstream Rt Outlet</i>	Vegetated	1
<i>Downstream Lt Outlet</i>	Vegetated	1
<i>Downstream Rt Ditch</i>	Bare soil	0
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Partially Improved Outlet System	3
<i>Ditches Total</i>	Partially Improved Drainage System	3
SRI Total	Low Risk	54

Additional Site Features

Crossing Type and Quantity: Bridge,1
Crossing Materials: Wood
Soil Types: 2,18,22
Rt Approach Prism Fill: 0.15in
Lt Approach Prism Fill: 1.00in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	No	N/A
Land Use/ Cover	Yes	N/A PASTURE, HAY, EAST GULF COASTAL PLAIN SMALL STREAM AND RIVER FLOODPLAIN FOREST
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Big Horse Creek

ok-0526-r-004

Sedimentation Risk Index

54

Common: 2.7mi NE of Blackman
Drainage: Yellow River GPS: 30.955489, -86.608581
Land owner: Blackwater River State Forest

County: Okaloosa
PLSS(T-R-S): 5N-24-02
Parcel No.: 8
Road Name: Creston Barrow Rd

State: Florida



Crossing Structure: DS



DS

Risk Factor	Ranking	Score
<i>US Channel Morph</i>	B	5
<i>DS Channel Morph</i>	B	5
<i>DS Bank Alteration</i>	NATURAL	5
<i>Upstream Skew Angle</i>	<5°	5
<i>Crossing fill condition</i>	Fair/Rip Rap	3
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Sand/Clay	3
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	0.21-0.40	3
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
<i>Upstream Rt Ditch</i>	Rip Rap	1
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<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
SRI Total	Low Risk	54

Additional Site Features

Crossing Type and Quantity: Bridge, 1
Crossing Materials: Reinforced Concrete
Soil Types: 12,13,16,20,23,24,36,39,43,52
Rt Approach Prism Fill: 0.5in
Lt Approach Prism Fill: 0.75in



Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	BLACKTIP SHINER, IRONCOLOR SHINER
Land Use/ Cover	Yes	PUBLIC/SEMI-PUBLIC/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: None

Unnamed tributary	co-0901-r-019	Sedimentation Risk Index 56																																																																		
<u>Common:</u> 10.4mi NW of Florala <u>Drainage:</u> Yellow River <u>GPS:</u> 31.141652044, -86.378701811 <u>Land owner:</u> T. Ivey Powell & Sons Inc	<u>County:</u> Covington <u>PLSS (T-R-S):</u> 2N-17E-7 <u>Parcel No.:</u> 1 <u>Road Name:</u> Cravey Bridge Rd																																																																			
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Notes: Rip rap in stream bed. Close proximity to YR main stem.

Unnamed tributary

wa-0710-r-001

Sedimentation Risk Index
56

Common: 4.8mi NW of Mossy Head
Drainage: Shoal River GPS: 30.783340, -86.381786
Land owner: William P. Corley-DS, James & Patricia Mixon-US

County: Walton State: Florida
PLSS(T-R-S): 3N-21-06
Parcel No.: 11; 14
Road Name: W.T. Hulion Rd



Crossing Structure: US



US



Risk Factor	Ranking	Score
<i>US Channel Morph</i>	C	5
<i>DS Channel Morph</i>	C	5
<i>DS Bank Alteration</i>	MINOR/PARTIAL	3
<i>Upstream Skew Angle</i>	5-30°	3
<i>Crossing fill condition</i>	Good/Vegetated	5
<i>Inlet/Outlet Condition</i>	No Impairment	5
<i>Road Approach Material</i>	All Aggregate	5
<i>Potential Eroded Volume Mean</i>	<21 y³	5
<i>Approach Slope Mean</i>	<2%	5
<i>Soil K Factor</i>	<0.20	5
<i>Upstream Rt Outlet</i>	Vegetated	1
<i>Upstream Lt Outlet</i>	Vegetated	1
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<i>Upstream Lt Ditch</i>	Vegetated	1
<i>Downstream Rt Outlet</i>	Vegetated	1
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<i>Downstream Rt Ditch</i>	Vegetated	1
<i>Downstream Lt Ditch</i>	Vegetated	1
<i>Outlet Total</i>	Improved Outlet System	5
<i>Ditches Total</i>	Improved Drainage System	5
SRI Total	Low Risk	56

Additional Site Features

Crossing Type and Quantity: Culvert, 1
Crossing Materials: Metal
Soil Types: 15,35,48
Rt Approach Prism Fill: 0.05in
Lt Approach Prism Fill: 0.5in

Feature	Within Range	Descriptive Field
303(d)	No	N/A
Wetland Species	No	N/A
Rare and Imperiled	Yes	SPECKLED CHUB, IRONCOLOR SHINER, GOLDSTRIPE DARTER
Land Use/ Cover	Yes	AGRICULTURAL/ WETLAND FORESTED MIX
Candidate Mussels	No	N/A
Sturgeon C.H.	No	N/A

Notes: Rt approach paved.

**DRIPTING ROCK STABILIZATION
PROJECT
RESTORATION PLAN
SCOPE OF WORK**

**YELLOW RIVER
COVINGTON COUNTY, ALABAMA
JUNE 2011**



COOPERATING ENTITIES:

THE NATURE CONSERVANCY

**FLORIDA FISH AND WILDLIFE CONSERVATION
COMMISSION**

PRIVATE LANDOWNERS

PROJECT PROPOSAL

The U.S. Fish and Wildlife Service (USFWS), in cooperation with The Nature Conservancy (TNC), the Florida Fish and Wildlife Conservation Commission (FWCC), U.S. Department of Defense (DoD), and private landowners propose to restore the Dripping Rock site on the Yellow River, Covington County, Alabama by reshaping streambank habitat, planting native vegetation, installing permanent gates, and re-contour floodplain terrace to reduce and eliminate sedimentation. The USFWS, along with FWCC, TNC, DoD, and the private landowners will be funding components of this

project to benefit threatened Gulf sturgeon spawning habitat, migratory fish species, and restore floodplain wetland plant communities.

BACKGROUND

Habitat degradation is a primary factor in the decline of biodiversity in aquatic ecosystems in the southeastern U.S. Riverine and riparian restoration are often necessary to conserve and restore natural function, connectivity, and biodiversity of rivers affected by habitat degradation. The Yellow River (Pensacola Bay Drainage) is a large, blackwater river which flows through forested and agricultural lands in Alabama and Florida. While the Yellow River is noted for relatively high fish and mollusk biodiversity, its watershed is currently being impacted by a variety of nonpoint sources of pollution, notably sedimentation resulting from river bank instability. This excessive sedimentation causes habitat smothering, loss of in-stream habitat, and ultimately large-scale degradation of river ecology and function.

The Gulf sturgeon (*Acipenser oxyrinchus desotoi*) is a federally threatened species indigenous to Gulf of Mexico river drainages, including the Yellow River. The Yellow River, downstream from Alabama State Highway 55, is designated as critical habitat for Gulf sturgeon. The USFWS identified five potential spawning sites on the Yellow River that possess the features – limestone outcroppings, cobble, and gravel – which are essential for successful sturgeon spawning. The “Dripping Rock” site was identified as having the best potential spawning habitat of the five sites and was the only one from which sturgeon eggs have been documented (Figures 1, 2, and 3).

However, this location has substantial public use along its banks adjacent to this spawning area. This has resulted in denuded river banks which are known to slough substantial amounts of sediment to the Gulf sturgeon spawning area during rain events and high river flow periods. This has resulted in reduced water quality and significant bank erosion (Figure 4) at this site, and is believed to smother and otherwise degrade the natural bedrock and gravel spawning substrate needed by Gulf sturgeon for population recovery in this river. The USFWS Gulf Sturgeon Recovery/Management Plan (1995) identifies habitat degradation, including degradation and loss of spawning habitat, as a significant contributor to the decline of this species and responsible for its listing under the Endangered Species Act. The plan also recommends habitat restoration to reduce these impacts for long-term recovery of Gulf sturgeon populations in affected systems.

PROBLEM

This location, known locally as “Dripping Rock”, is located on the western bank of the Yellow River approximately two miles downriver of Alabama State Highway 55, in Covington County, AL (FDEP 2002). Dripping Rock is characterized by a denuded riverbank and an unpaved road which terminates at the site and is directly adjacent to one of five potential Gulf sturgeon spawning sites and is the only site from which sturgeon eggs have been documented in the Yellow River (USFWS 2001). The “Dripping Rock”

site also has substantial public use along its banks adjacent to this spawning area. This site is accessed by the unpaved road, in which persons trespass over private property to reach the river, and vandalism is common. Destruction of the riverbank by trespassers apparently facilitates large amounts of sediment from the unpaved road to enter the river and is believed to smother and otherwise degrade the natural bedrock and gravel spawning substrate needed by Gulf sturgeon in the Yellow River (FDEP 2002).

The “Dripping Rock” locality was assessed during Phase 1 of the “Inventory and Prioritization of Impaired Sites in the Yellow River Watershed in Florida” (FWC Agreement Number 08232). This location (site number co-0610-001) was identified as an area of substantial impairment that affected several biological and habitat resources in the Yellow River, including Gulf sturgeon as described above. Because the limestone hard-bottom which characterizes this site is rare in the basin, the USFWS also believe that this is a potential locality for at least one of the five mussels which are currently candidates for protection under the Endangered Species Act. Although located in Alabama, the factors degrading this site (e.g., sedimentation for an unpaved road) directly affect the quality of softwater streams in Florida located directly downriver from the site and biological resources of Florida freshwaters such as the Gulf sturgeon and species designated as Species of Greatest Conservation Need such as Alabama shad (*Alosa alabamae*), which are similarly affected by this habitat degradation (FWC 2005). Sedimentation originating from the unpaved road and denuded riverbank is considered a “High ranking Sources of Stress” to softwater streams, categorized under the heading “roads” in the CWCS (FWC 2005). The State of Florida has previously identified this location as impacting Florida resources and recommend restoration at this site (FDEP 2002). In addition, the State of Florida has identified this drainage in both Alabama and Florida as an important conservation unit for Gulf sturgeon and recommend habitat restoration for long-term recovery and conservation of its stocks (Wakeford 2001). The cost of restoring this site is relatively low in comparison to similar river restoration actions. In total, restoration of the “Dripping Rock” will directly improve several high-priority Florida habitat and biological resources at a relatively low cost.

RESTORATION PLAN DESCRIPTION AND BUDGET

We will restore the riverbank as well as the unpaved road leading to the riverbank at Dripping Rock using standard river corridor restoration techniques which have been employed successfully elsewhere in the Yellow River and nearby river drainages (NRCS 2001, USFWS 2005). Generally, we will fill, grade, stabilize, and revegetate the road and river corridor at the site. In addition, we will install a main enclosure gate and a secondary gate to prevent illegal trespassing at the site and ensure long-term stabilization and recovery.

We propose the physical modification of the unpaved road, right floodplain, and streambank on the Yellow River at the Dripping Rock Site (see Appendix 1 for Engineering Design). This includes constructing a contoured terrace within the floodplain and streambank to stabilize slope habitat and plant with native vegetation. Specifically, we propose to (1) stabilize the length of the impacted streambank and

floodplain using natural fiber erosion control cloth, (2) provide native shrub and tree material planting along the stream corridor for future stabilization and habitat recovery, (3) seed all exposed areas with annual and perennial plants, and (4) install heavy duty gate at main entrance and secondary gate mid-way to minimize vehicular traffic. An itemized list with total quantities needed for the restoration is located in Table 1, including erosion control fabric for short-term sediment/bank stabilization; stakes for setting the erosion control fabric; trees, shrubs, herbaceous plants, and temporary seed for revegetation and long-term sediment/bank stabilization, and fill dirt for assuring necessary grade; and substrate for long-term revegetation and site stabilization. All plantings and material for this project will follow guidelines outlined and recommended in Appendix 2.

Table1. Itemized list of materials and cost needed for the Dripping Rock Site, Yellow River, AL.

Item	Quantity	Unit Price	Total Cost
Main Gate-4" steel tube gates(installed)	2	1550.00	3100.00
4" steel post road barricade(installed)	15	250.00	3750.00
Secondary Gate	2	425.00	850.00
Seeding (browntop, lime fertilizer, Bahia, mulch and planting)	2 acres	1650.00	3300.00
Fill Dirt	300 cuYDS	7.00	2100.00
Topsoil	50 cuYDS	10.00	500.00
Mobilization and Demobilization	job	1500.00	1500.00
Tree Planting	175	7.00	1225.00
Shaping, filling and Smoothing (berm and flood plain)	Job	3600.00	3600.00
Total			\$ 19,925.00

PROJECT OBJECTIVES

The objectives of this project are to (1) reshape the right streambank at the Yellow River to create a stable slope and minimize sedimentation, (2) replant riparian vegetation to restore the natural floodplain ecosystem along the Yellow River, (3) isolate the reach from degradation caused by vehicles, and (4) provide stream corridor habitat necessary for long-term (+10 years) recovery of the natural riparian vegetation community of this stream system.

EXPECTED BENEFITS

Benefits of restoring Dripping Rock Site include: (1) recovery of in-stream habitat for spawning Gulf sturgeon; (2) recovery of native aquatic biota typical to Yellow River stream ecosystems, such as flow-dependent fish and macroinvertebrate species; (3) restoration of natural in-stream water quality and sediment dynamics, which influence the aquatic preserve as described above; (4) increased resilience of aquatic species' populations to population fluctuations; (5) restoration of stream corridor habitat for long-term recovery of the natural riparian vegetation community of this stream system; (6) aesthetic improvement of habitat from degraded to recovered condition; and (7) improvement to condition and management of public resources.

SCHEDULE

We will restore the riverbank as well as the unpaved road leading to the riverbank at "Dripping Rock" from June – July 2011.

CONTACTS

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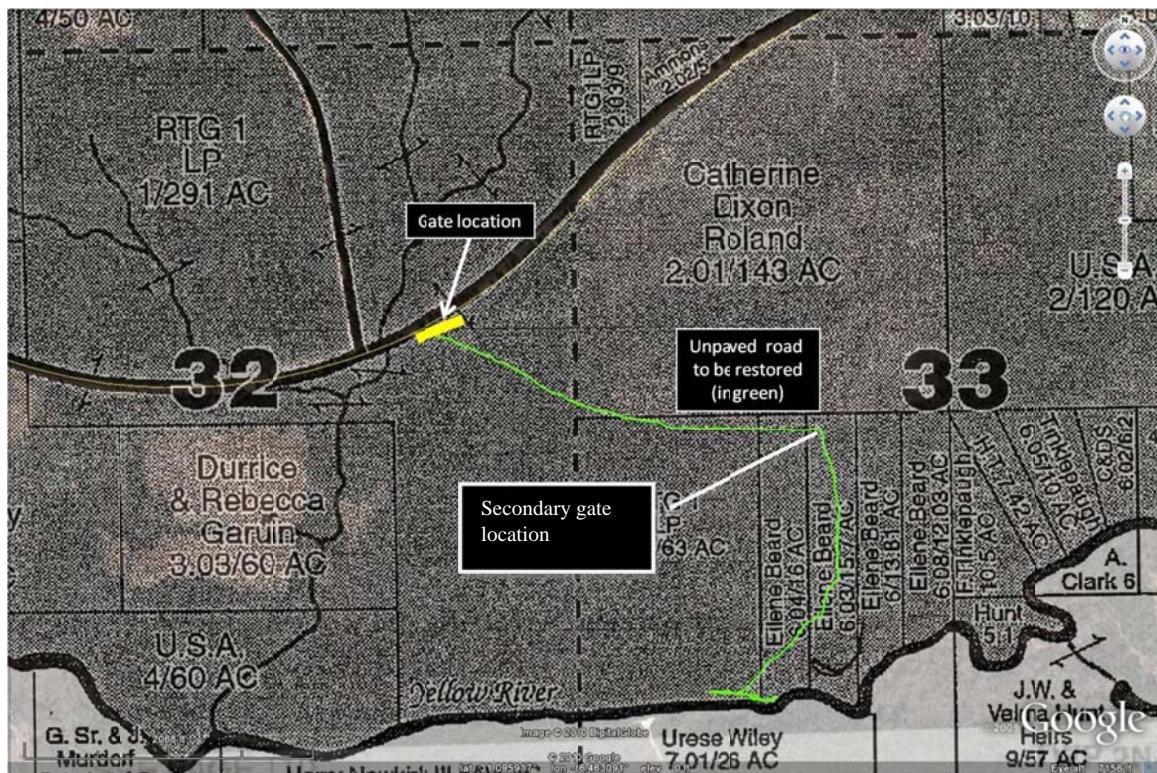


Figure 1. Location of Restoration at “Dripping Rock” site on the Yellow River.

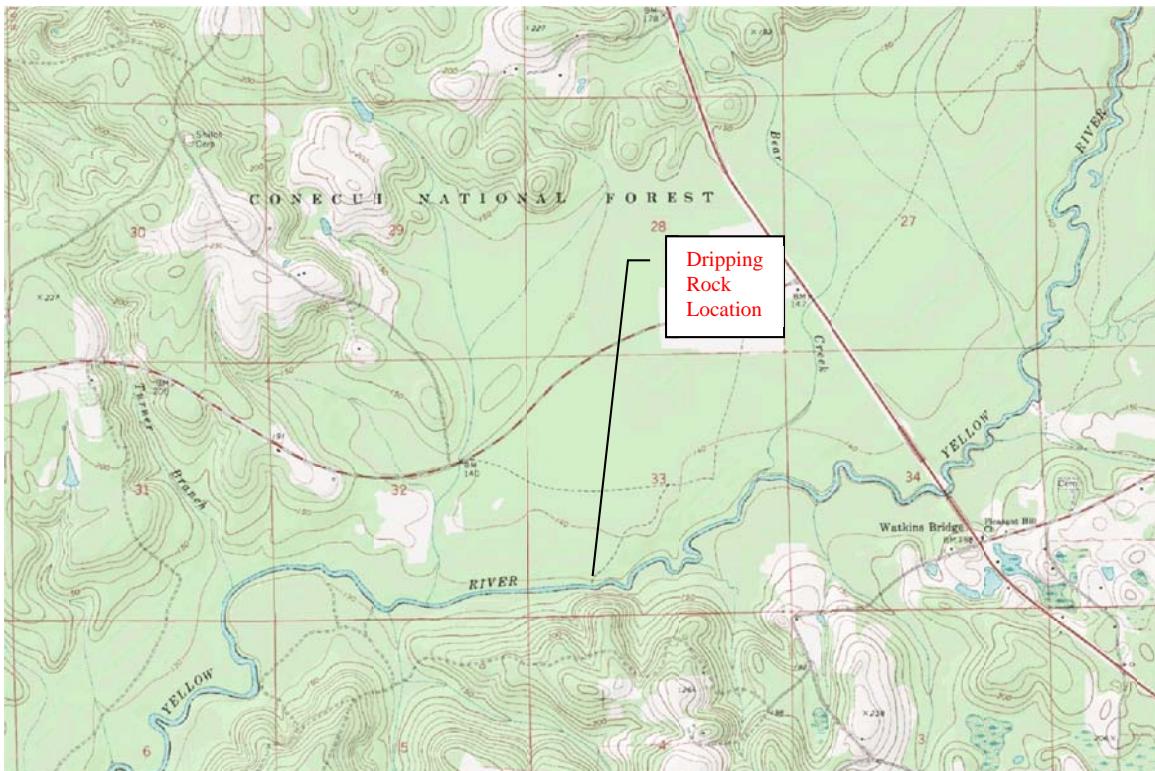


Figure 2. Topographic location of the “Dripping Rock” site on the Yellow River.

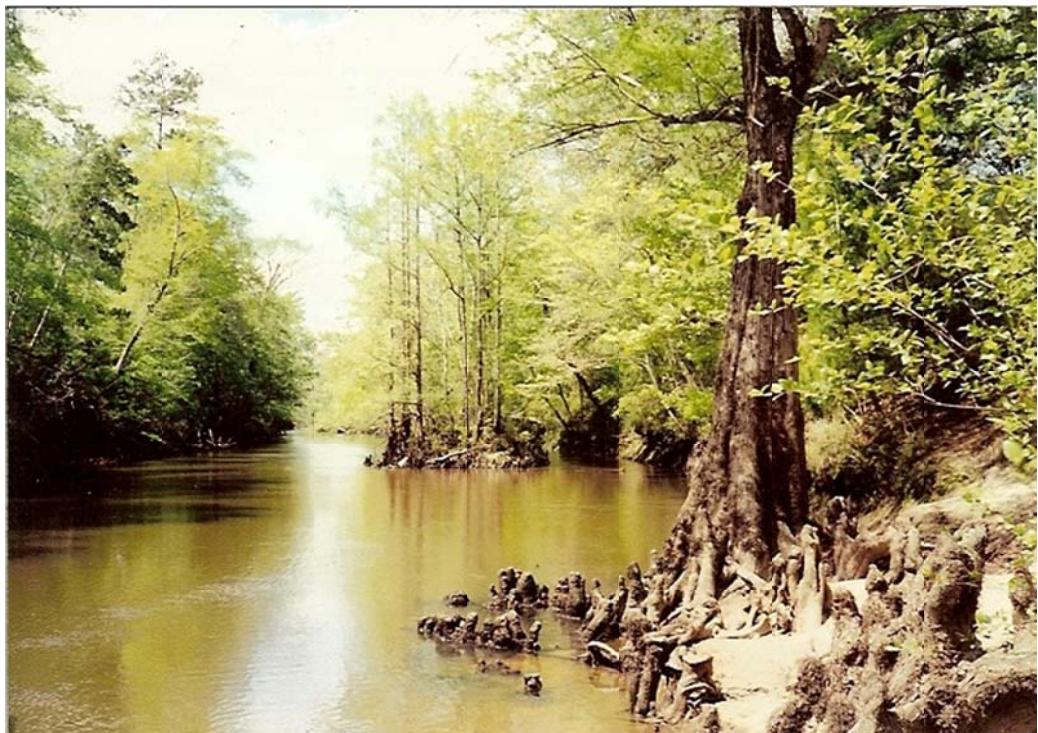


Figure 3. Existing conditions of the Dripping Rock site on the Yellow River.



Figure 4. Erosional site discharging into the Dripping Rock site, Yellow River.



Figure 5. Eroding unpaved road discharging into the Dripping Rock site, Yellow River.



Figure 6. Local impacts on Gulf sturgeon spawning habitat at the Dripping Rock site, Yellow River.

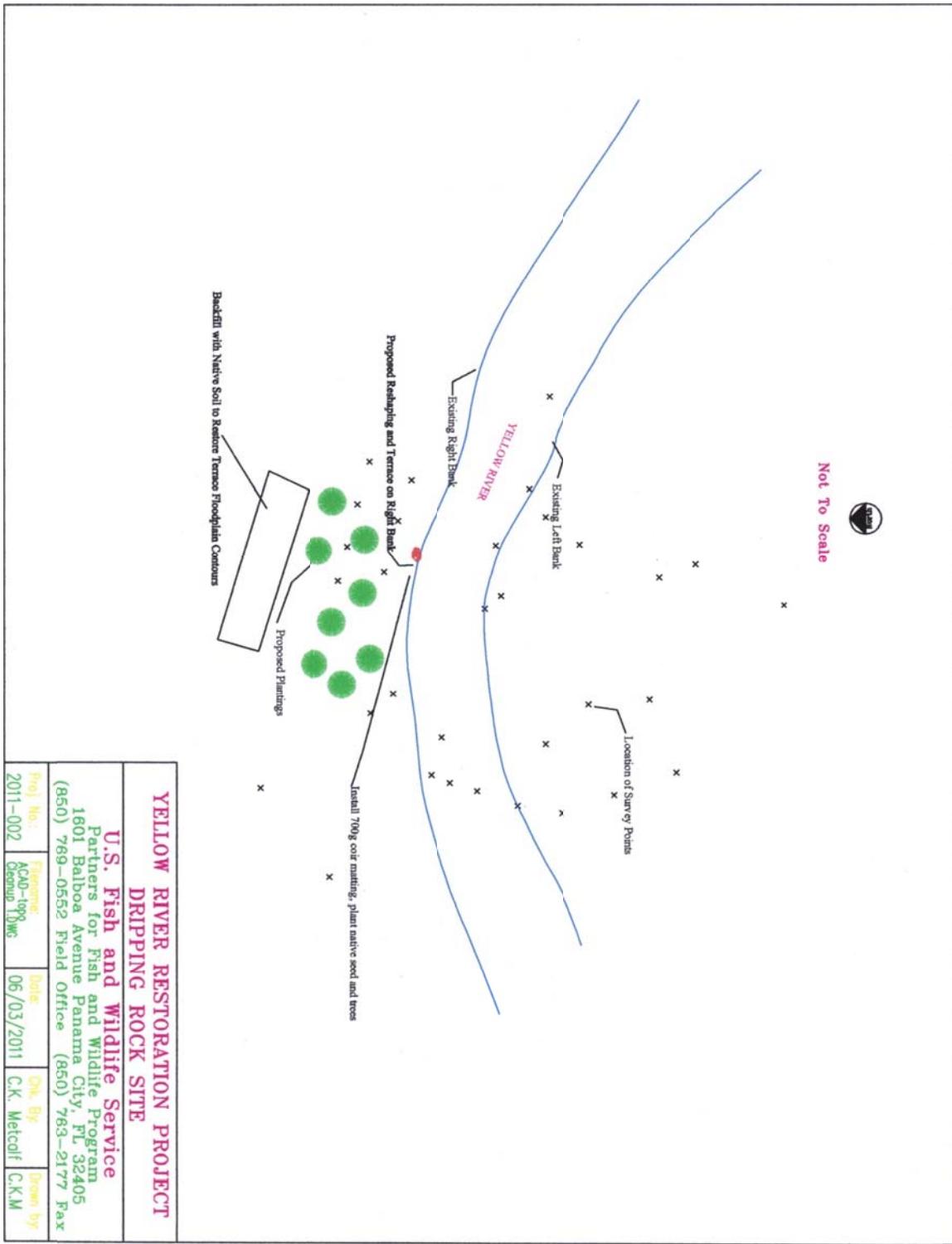
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Appendix 1

Engineering Drawings



Appendix 2

Plant Material and Erosion Control Recommendations for Restoration of Coastal Plain Streams

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The U.S. Fish and Wildlife Service, through the Partners for Fish and Wildlife Program, is actively conducting stream restoration projects within the Northeast Gulf Ecosystem portions of Florida, Alabama and Georgia. As part of the restoration process, plant materials and erosion control is needed to provide stabilization of streambanks and floodplain areas. We recommend using the following materials for restoration. For best plant material recommendations, identify existing plant species at reference locations.

Herbaceous Seed Material:

Temporary and permanent seed should be broadcast on all exposed soils upon completion of each project. The following seed mixes are recommended to use at various zones along the streambank, riparian and upland areas. On average, about 10 lbs/acre should be applied on bare soil.

Wet Condition Seed Mix (apply to streambank)

Virginia Wild Rye – 20%
Big Bluestem – 20%
Eastern Gama Grass – 30%
Switch Grass – 10%
Partridge Pea – 20%
Redtop grass (*Agrostis stolonifera*) can also be used in addition to the above seed mix.

Semi Dry Conditions Seed Mix (apply to upper streambanks and floodplain areas)

Big Bluestem – 20%
Little Bluestem – 15%
Blackeyed Susan – 15%
Indian Grass – 20%
Virginia Wild Rye – 10%
Switch Grass – 5%
Showy Partridge Pea – 5%

Dry Conditions Mix (apply to upland/dry areas)

A combination of these seeds should add up to 100%. These species can also be added into the Semi-Dry mix. Florida ecotype seed is preferred.

Bitter panicgrass (*Panicum amarum*)
Needleleaf witchgrass (*Dichanthelium aciculare*)
Black-eyed susan (*Rudbeckia hirta*)
Common trumpetcreeper (*Campsis radicans*)
American beautyberry (*Callicarpa americana*)
Shortspike Bluestem (*Andropogon brachystachyus*)
Wiregrass (*Aristida spp*)
Coastal Plain Chaffhead (*Carphephorus corymbosus*)
Toothachegrass (*Ctenium aromaticum*)
Tall Elephantsfoot (*Elephantopus spp.*)
Pinebarren Goldenrod (*Solidago fistulosa*)
Garber's Blazing Star (*Liatris garberi*)
Narrowleaf Silkggrass (*Pityopsis graminifolia*)
Yelloweyed Grass (*Xyris spp*)

All exposed soils should be temporally treated with an annual grass or plant that will germinate quickly for immediate stabilization. During the winter months, annual grains (rye, oats, or wheat) and/or annual rye grass should be planted. In summer, sorghum or brown top millet should be planted. Rates of planting for temporary stabilization should be at about 5-10 lbs/acre. Native St. Augustine can also be sprigged or sodded along streamsides for critical stabilization. Additionally, mycorrhizae should be added to soil for revegetation success.

Woody Plant Material:

Permanent tree and shrubs should be planted upon completion of each project. Plant materials can be constructed as fascines, live stakes and/or whole live trees/shrubs. Planting should occur along all exposed streambanks and floodplain areas. The following plants are recommended for various planting methods.

Fascines Plants

The following plants are recommended to construct live fascines. All fascines should be harvested during the winter/dormant months and planted along the streambank where ground water will be exposed to bark. Fascines should range between 4' to 6' long and planted parallel to the bank at 2 foot spacing.

Buttonbush (*Cephalanthus occidentalis*)

Swamp dogwood (*Cornus foemina*)

Silky dogwood (*C. amomum*)

Sandbar willow (*Salix exigua*)

Black willow (*Salix nigra*)

Live stakes

The following plants are recommended to make live stakes. All live stakes should be harvested during the winter/dormant months and planted along the streambank where ground water will be exposed to bark. Live stakes should range between 12" to 48" long and planted at a spacing of 2 feet (Figures 1 and 2).

River birch (*Betula nigra*)

Buttonbush (*Cephalanthus occidentalis*)

Swamp dogwood (*Cornus foemina*)

Silky dogwood (*C. amomum*)

Tulip (yellow) polar (*Liriodendron tulipifera*)

Sycamore (*Platanus occidentalis*)

Carolina willow (*Salix caroliniana*)

Sandbar willow (*Salix exigua*)

Black willow (*Salix nigra*)

Elderberry (*Sambucus Canadensis*)

Shrubs

The following shrubs are recommended for planting. All shrub materials should be planted during the winter/dormant months and planted along the streambank and throughout the floodplain areas. Shrubs should be planted at a spacing rate of 18" to 36".

River locust [Indigo-Bush] (*Amorpha fruticosa*)

Wax myrtle (*Myrica cerifera*)

Sweet pepper bush (*Clethra alnifolia*)

Hazel alder (*Alnus rugosa* [*syn. Alnus serrulata*])

Swamp dogwood (*Cornus foemina*)

Silky dogwood (*C. amomum*)

Buttonbush (*Cephalanthus occidentalis*)

Carolina willow (*Salix caroliniana*)

Virginia willow (*Itea virginica*)

Titi (*Cyrellea racemiflora*)

Southern bayberry or Wax myrtle (*Myrica cerifera*)

Riparian Trees

The following trees are recommended for planting. All trees should be planted during the winter/dormant months and planted along streambank and throughout the floodplain areas. Trees should be planted at a spacing rate of 12' to 16'.

Baldcypress (*Taxodium distichum*)
Green ash (*Fraxinus pennsylvanica*)
Swamp laurel oak (*Quercus laurifolia*)
Overcup oak (*Quercus lyrata*)
Swamp chestnut oak (*Quercus michauxii*)
Water oak (*Quercus nigra*)
Tulip (yellow) polar (*Liriodendron tulipifera*)
American sycamore (*Platanus occidentalis*)
Water tupelo (*Nyssa aquatica*)
Blackgum (*Nyssa sylvatica*)
Ogeechee tupelo (*Nyssa ogeche*)
Needle palm (*Sabal palmetto*)
Dogwood tree (*Cornus florida*)
American beech (*Fagus grandifolia*)
Red maple (*Acer rubra*)
River birch (*Betula nigra*)
Atlantic white cedar (*Chamaecyparis thyoides*)
Sweet bay (*Magnolia virginiana*)

Erosion Control Fabric:

Coir fiber blankets should be placed on all exposed streambank soils and anchored with either live or wooden (minimum length 18") stakes every 4 feet (Figures 1 and 2).

Blankets should be woven with a minimum weight of 700 grams/square meter. Along exposed upper slopes and floodplain areas, blown hay and wooden fiber blanket (i.e., excelsior) should be installed and securely fastened with either wooden stakes or metal staples.

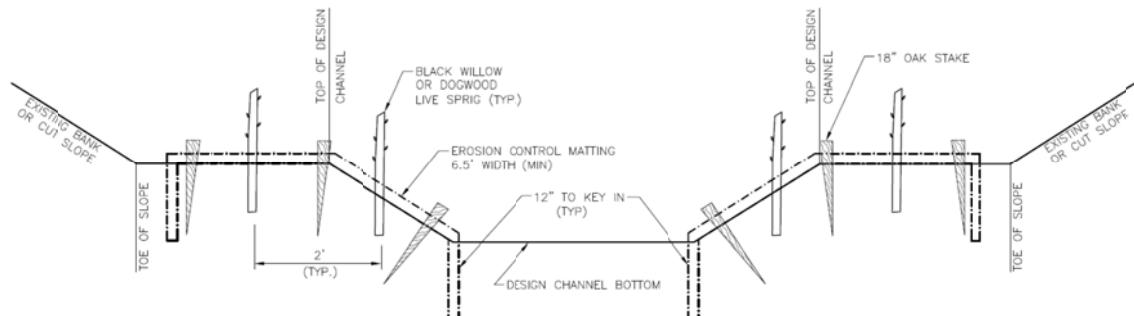


Figure 1. Typical Erosion Control Fabric Type and Placement Along Streambank with Live Staking Placement.

NOTES:

1. STAKE TO HAVE TAPERED POINT 18" – 1" X 1" OAK OR EQUIVALENT. TAPERED 24' STAKES SHOULD BE USED IN HIGH SHEAR STRESS LOCATIONS (TO BE DETERMINED BY SITE ENGINEER).
2. EROSION CONTROL MATTING TO BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS FOR LENGTH OF DESIGN CHANNEL. MATTING IS TO BE GEOCOIR/DeKoWe 700g/m². CONTRACTOR RESPONSIBLE FOR COORDINATING WITH MANUFACTURER.
3. BEGIN MATTING INSTALLATION AT DESIGN CHANNEL BOTTOM AND INSTALL ONE WIDTH OF MATTING (6.5' MIN) FOR LENGTH OF PROJECT.
4. BLACK WILLOW, DOGWOOD OR EQUIVALENT LIVE SPRIGS TO BE PLANTED AT 2' OC FOR LENGTH OF DESIGN CHANNEL. SPRIGS TO BE 2'-4' IN LENGTH, NO MORE THAN 2' IN DIAMETER.

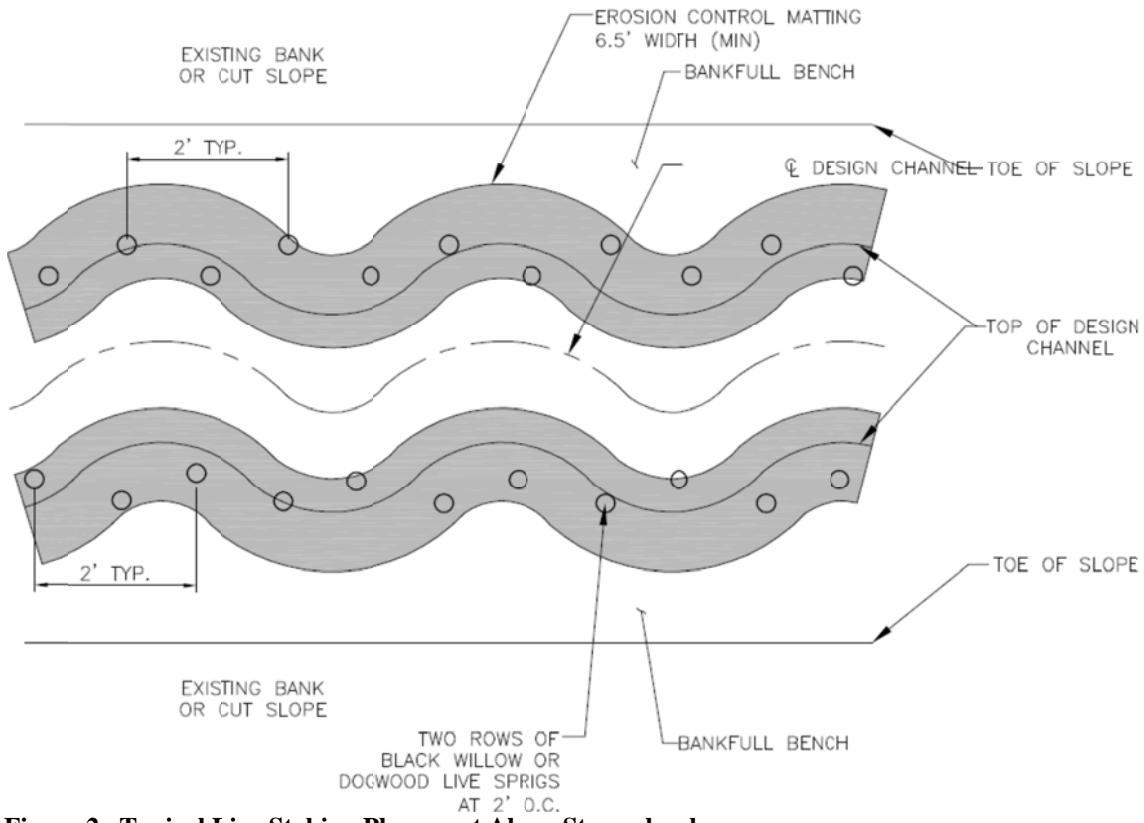


Figure 2. Typical Live Staking Placement Along Streambank.