

**Mobile Bay National Estuary Program
CCMP Review Recommendations**

Recommendation	Category	Fish and Wildlife	Access to water and Open Spaces	Heritage and Culture	Enviro Health	Water Quality	Beaches and Shorelines
Revisit data information management on monitoring of key living resources, water quality, habitat quality etc.	Develop a monitoring program for key species that are proxies of ecosystem health	X	X		X	X	X
Develop the Biological Condition Gradient Framework to illustrate and explain the state of the estuary and needs for improvement	Educate	X			X	X	X
Develop guidance on long-term management and protection of priority sites acquired	Identify/Restore/Protect areas of most stress and least stress throughout the estuary	X	X				X
Identify and prioritize areas for potential acquisition and/or restoration	Identify/Restore/Protect areas of most stress and least stress throughout the estuary	X	X		X		X
Conduct a beach and dune habitat assessment to determine lost/gained habitat over time as well as habitat disturbed by human uses. The beach and dune assessment should include not only the unvegetated beach and primary dunes but also tertiary dunes, interdunal swales and maritime forest. The assessment should utilize aerial photography to compare habitat changes over the last 20-2 years and should be conducted at least every 5 years thereafter	Improve estuarine research	x					X
Investigate the impact of the deepwater horizon incident on beaches and human use of those resources	Improve estuarine research		x				X
Map and monitor beaches on a regular basis	Improve management of critical habitats that support estuarine dependent species						X
Develop a sand management policy for coastal Alabama	Improve management of critical habitats that support estuarine dependent species						X

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Link beach and dune habitat goals to beach mouse, shore bird and sea turtle goals.	Improve management of critical habitats that support estuarine dependent species	X					X
Develop action plan for reducing shoreline loss	Improve management of critical habitats that support estuarine dependent species	x					X
Develop plan for Beneficial uses of dredged material for shoreline sustainability	Improve management of critical habitats that support estuarine dependent species						X
Develop eco-tourism guidelines to ensure protection of the coastal resources	Improve management of critical habitats that support estuarine dependent species	x	x	X			x
Encourage use of alternative and enhanced efforts to control erosion	Improve management of critical habitats that support estuarine dependent species	x			x		x
Reduce nuisance complaints to agencies while increasing effectiveness of 'early warning' calls	citizen participation						
Serve as a clearinghouse for citizen environmental concerns	citizen participation						
Maintain an active community action committee	citizen participation						
Develop a "speakers bureau" composed of conference members including citizens as an opportunity to address business and civic clubs and advise them of mbnep programs.	citizen participation						
Implement a recognition program that encourages environmentally sound development practices	citizen participation				X		
Identify key species that offer insight into ecosystem health that are not currently being evaluated in a monitoring program	Develop a monitoring program for key species that are proxies of ecosystem health	X			x	x	
Re-examine the relevance of monitoring the american alligator	Develop a monitoring program for key species that are proxies of ecosystem health	X					

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Develop protocol for measuring and monitoring biodiversity	Develop a monitoring program for key species that are proxies of ecosystem health	X					
Develop and monitor Indicator invertebrate species as this level of the food web is the first to show stress	Develop a monitoring program for key species that are proxies of ecosystem health	X					
Consider focus on alabama red-bellied turtle, on-going research and protection plans	Develop a monitoring program for key species that are proxies of ecosystem health	X					
Translate scientific language into easily understandable laymen vernacular	Educate						
Educate citizens on reportable violations and responsible agencies	Educate						
Develop interpretive signage in new or existing parks to educate visitors regarding habitats and living resources.	Educate	X	X	x			
Target tourism-oriented businesses to promote environmental advocacy campaigns such as the green hotel program and the green golf course program	Educate			X	X		
Improve/expand education on catch and release	Educate	X					
Promote awareness of the value of natural habitats as economic resources	Educate		X	X			
Educate about the value of protecting Submerged Aquatic Vegetation	Educate	x			X	X	
Support educational/BMP efforts of the alabama forestry commission, alabama treasure forest foundation, and forever wild regarding effects to surface waters from silvicultural runoff	Educate	x			X	X	
Support the NRCS, soil and water conservation districts, and ACES in continued development and implementation of agricultural education and bmp standards	Educate	x			X	X	

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Develop a species list for fish and bird species found in the estuary that can be readily referenced	Educate	X					
Provide information to nursery and home improvement stores that educates the purchasing decision makers concerning exotic species (list them) and their impact to the estuary once they escape cultivation.	Educate	X			x	x	
Provide the public with effective methods for eliminating exotics/invasives from their property	Educate	X			x		
Develop curriculum and teaching tools that can be adopted by middle school and high school teachers	Educate			x			
Increase education of the public regarding appropriate disposal of hazardous materials	Educate				x	x	
Continue citizens' education efforts to raise awareness of the need to increase funding for better stormwater management	Educate- Stormwater	x			X	X	
Support several statewide grassroots efforts to make citizens aware of stormwater issues	Educate- Stormwater	x			X	X	
Continue education of elected officials, citizens and business and industry leaders regarding the importance of storm water management	Educate- Stormwater				X	X	
Expand restoration and protection of nesting bird habitat	Identify/Restore/Protect areas of most stress and least stress throughout the estuary	x	x				
Identify "problem sub-basins"	Identify/Restore/Protect areas of most stress and least stress throughout the estuary	x				X	
Identify potential OAW streams and pursue designation	Identify/Restore/Protect areas of most stress and least stress throughout the estuary	x				X	

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Identify priority streams in the Mobile, Escatawpa and Perdido river basins and develop watershed restoration strategies	Identify/Restore/Protect areas of most stress and least stress throughout the estuary	x			x	X	
Focus efforts on human sources of pathogens in priority areas i.e. Those areas on the 303(d list and where TMDLs have been developed for pathogens	Identify/Restore/Protect areas of most stress and least stress throughout the estuary				X	X	
Determine on the amount and type of wetlands lost each year due to loopholes in permitting	Improve estuarine research	x	x		x	x	
Evaluate if created wetlands for mitigation are serving the same function in the same watershed	Improve estuarine research	x			x	x	
Undertake an economic study of the tourism affect to justify continuation and expansion of the birding trail	Improve estuarine research	x	x	x			
Determine threshold acreage needed to sustain baseline wetland functions	Improve estuarine research	x			x	x	
Identify the sources, amounts, and impacts of by-catch on fish species in the estuary ecosystem	Improve estuarine research	X					
Fund research to assist universities, NGOs and private entities to pursue research toward completion of goals	Improve estuarine research	X					
Develop links between water quality and living resources	Improve estuarine research	X				X	
Examine cumulative or synergistic effects of loadings from various point and nonpoint sources, including air emissions.	Improve estuarine research					X	
Develop water quality predictive models for a more comprehensive understanding of water quality issues and the development of simple management tools	Improve estuarine research					X	
Develop water quality specific indicators being monitored to determine the degree of success	Improve estuarine research					X	

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Support legislative action addressing reduction of sediment and turbidity impacts on surface water from dirt/soil mining activities	Improve management and governance	x				X	
Develeop comprehensive groundwater management strategy	Improve management and governance					X	
Assess the need for any changes regarding current state regulations and enforcement regarding sustaining populations of key living resources	Improve management and governance	X					
Developing programs for the maintenance of biodiversity and better protection of threatened and endangered species on private and public lands	Improve management and governance	X					
Establish and fund a water quality monitoring council as recommended by ADEM in their 2010 305(b) report	Improve management and governance					X	
Expedite the development of TMDLs for impaired waterbodies	Improve management and governance					X	
Creation of a bi-county team for home rule related to sustainability	Improve management and governance				x	X	
Support the development and promotion of more sustainable transportation alternatives	Improve management and governance			X		X	
Develop strategies for reducing sewage overflow issues	Improve management and governance				X	X	
Adapt the Alabama Rural Watershed Association's, a non-profit organization of water and wastewater systems professionals, "wellhead/ground water protection plan"	Improve management and governance					X	
Promote sustainable land use planning and its implementation through zoning, land development ordinances and design standards incorporating best management practices	Improve management and governance		X		X		

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Determine the success criteria that can be used consistently to evaluate wetland restoration projects	Improve management of critical habitats that support estuarine dependent species	x			x	x	
Examine existing wetlands protection regulations and recommend modifications to improve protection	Improve management of critical habitats that support estuarine dependent species	x			X	X	
Use the watershed management approach in resource acquisition and protection	Improve management of critical habitats that support estuarine dependent species						
Support efforts to eradicate amazonian apple snail	Improve management of critical habitats that support estuarine dependent species	X					
Link optimum habitat goals to the wildlife species goals	Improve management of critical habitats that support estuarine dependent species	X					
Link Longleaf pine habitat to gopher tortoise, bachman sparrow and black pine snake goals	Improve management of critical habitats that support estuarine dependent species	X	x				
Restore Three Mile Creek and improve its use category	Improve management of critical habitats that support estuarine dependent species	x	x	x	x	X	
Develop a strategic mitigation plan for coastal Alabama, that identifies sites for mitigation by watershed, provides a consistent inspection schedule to assure mitigation compliance, and establishes criteria that are consistent with replacement of lost wetland functions	Improve management of critical habitats that support estuarine dependent species	x				x	
Undertake consistent mapping and a consistent habitat monitoring program coupled with some analysis of how and why habitats changed over time	Improve management of critical habitats that support estuarine dependent species	X	X				
Focus on improvements in water quality to increase acreage of SAV	Improve management of critical habitats that support estuarine dependent species	x				X	

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Establish and encourage the use of development setbacks from water bodies;	Improve management of critical habitats that support estuarine dependent species		x		x		
Assess the possibility of requiring drainage plans based on 15-to-25 year or greater storm events;	Improve management of critical habitats that support estuarine dependent species				X	X	
Establish side slope requirements not to exceed 1:4;	Improve management of critical habitats that support estuarine dependent species	x			x	x	
Develop and implement legislation giving counties the authority to develop and enforce uniform, performance-based, countywide ordinances to manage and oversee land disturbing activities;	Improve management of critical habitats that support estuarine dependent species				X	x	
Support development of BMPs designed specifically for rainfall and soil conditions	Improve management of critical habitats that support estuarine dependent species				x	X	
Establish criteria for a water body buffer zone on both sides of stream banks;	Improve management of critical habitats that support estuarine dependent species	x				X	
Develop and implement a water body bank conservation easement and/or buyout program;	Improve management of critical habitats that support estuarine dependent species	x				X	
Develop and/or support incentive programs for maintaining ground cover	Improve management of critical habitats that support estuarine dependent species				x		
Develop watershed management plans with implementation strategies that will result in better control of development within the watersheds	improve management of critical habitats that support estuarine dependent species				x	X	
Develop plan for identifying the potential nutria population, a means for reducing or eliminating the species, or educating the public	Improve management of critical habitats that support estuarine dependent species	X					

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Support new technology to reduce the impacts of storm and waste water	Support/Employ new technologies to mitigate human impacts on environment	x			X	X	
Improve control of non-point source pollution	Support/Employ new technologies to mitigate human impacts on environment	x				X	
Reduce runoff from roadways by working with the alabama department of transportation (ALDOT)	Support/Employ new technologies to mitigate human impacts on environment				x	X	
Promote stormwater improvement projects to address nutrient impacts and mitigate stream and channel erosion, flooding etc	Support/Employ new technologies to mitigate human impacts on environment	x				X	