

Matrix St. Mary's Bay/Baie Ste. Marie Forum December 11, 2003

<u>Category</u>	<u>Indicator</u>	<u>Colour</u>	<u>Changes/Threats</u>	<u>Effect on community Health</u>	<u>Measure (taken and needed)</u>
<u>Water Quality</u>	Bacteria	red	- Bacterial pollution of clam flats e.g. raw sewage - Other sources of pollution, e.g. fish plants	- Limits access to harvesting - Threat to food safety	- Water quality monitoring - Remediation program - Need info on point source discharges
	Nutrients	green	- Little farming in region	- Based on our knowledge no one seemed to indicate that it was a problem in St. Mary's Bay	
	sediments	red	- Clear cutting on Digby Neck - Particulate from quarry - Irving sawmill sawdust - Hollows have been filled in by sedimentation	- Effect on lobster, herring and groundfish spawning - Lobster are no longer harvested in those areas	- Get documentation on alterations in sedimentation due to clear cutting, quarry, sawdust
	toxic contaminants	red	- Particulate from quarry - Ship building - Road salt - Dumps	- Human Health hazard Food chain Drinking water	- Need more information - Need monitoring program - Proper disposal of debris - Info from Wastecheck
	Other:	Red yellow	- Oil spills - Garbage/debris	- Potential threat to local economy and ecology	- Studies on currents - CARP program

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<u>Presence of critical natural areas</u>					
	Benthic habitat	red	- Scallop dragging (Upper Bay)	- Effect on lobsters and urchins	- Cooperation between fleets
	Wetlands	yellow	- Potential loss of wetlands due to cottages, land sales		- Protected area
	Seagrass beds	white			
	Nesting and nursery areas	white			- Need bird watching people from Brier Island and Belliveau's Cove, Cap St. Mary's etc
	Spawning and nursery areas	white	- Haddock nursery destroyed - Seals have increased their geographical territory probably due to the scarcity of fish		- Need spawning ground data
	<u>Presence of coastal or marine protected area</u>		- Upper bay sanctuary - Brier Island - Provincial Parks (Plymton, Lake Midway, Long Island) - Belliveaus Cove	- ATVs and tourism	- Support Warren Paton's proposal - Invite Brier Island - Should there be more?? - Invite Belliveau Cove People

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<u>Changes in Species</u>					
	Populations	yellow red yellow	- Animal populations changing- skunks, coyotes, cougars, Bears - Depletion of herring stocks - Increased fishing effort through commercial fisheries due to out of season fishing	- Clear cutting - Effect on weirs - Lobster catches might go down	- Advocacy - Lobster research project - The data that is collected must be made accessible for better decision making
	Diversity	white			
	Dominance	green	- Lobster - Coyotes		
	Invaders	red	- Bilge from quarry ships		- Stop the quarry
	Other				

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<u>Changes in use & integrity of water and riparian zones</u>					
	clearing and development of natural areas	red	- Clear cutting and development of natural areas	- Topsoil depletion - Wells are going dry	- Change land policies - Land trusts - Share info about "La Forêt Acadienne" is an effective forest management practices by private woodlot owners
	replacement of traditional species	red	- Replanting with monoculture and herbicide spraying	- Destroy communities - Reduces economic diversity	
	erosion and deposition changes	green	- Red Head - Wharves - Scouring/depositing		

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<u>Changes in resource use</u>					
	Shift in targeted Species	yellow	<ul style="list-style-type: none"> - Lobster fleet moving down the Bay - With greater distances t cover to find lobster there will be an increase need for larger boats and increased fishing efforts 	<ul style="list-style-type: none"> - Tensions with lower bay fishermen forced to work closer together 	<ul style="list-style-type: none"> - Integrated CBRM - Lobster research - Why was there a shift in targeted species in St. Mary's Bay? - Pollution or over fishing
	Species introductions	green	<ul style="list-style-type: none"> - Purple loosestrife 		
	Shift from resource extraction to tourism/recreation use	green	<ul style="list-style-type: none"> - Increased # whale watches 		
	Non renewable resource	red	<ul style="list-style-type: none"> - White's Cove quarry 	<ul style="list-style-type: none"> - Quality of life, local small business jobs, fisheries 	<ul style="list-style-type: none"> - Stop the quarry