

Appendix 1:
Natural Resource Implementation Matrix

	Goal 1: Use GIS data for land use planning and decision making				
Sub Goal	Objectives	Strategies	Tactics / Comments	Short: 6mo.- 3 yrs. Mid: 3 -5 yrs. Long: > 5 years	Responsible Party/Board/Commission
1 A	Expand use of GIS data in planning and zoning and conservation review processes.	Encourage land use applicants to consult GIS maps to identify natural resources as part of the application process.	Create questionnaire for use with relevant applications	Mid	Planning and Zoning Boards
		Offer GIS training courses for town employees, permit applicants and the general public		Short	Town Planner
		Add new GIS layers as needed	Consult with GIS vendor. Work with town departments on GIS opportunities.	Short	Town Planner
1 B	Ensure GIS data quality control	Refine and enhance existing GIS data with new and/or updated natural resource information gained from project proposals, citizen science	Create process to feed new data and corrections into the town's GIS system.	Mid	Town Planner and Town Administrator
		Improve GIS Skills of Town Planner	Train current town planner. Add GIS into job requirements for future town planners.	Short	BOS and Town Admin

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	Goal 2: Protect and restore surface water quality				
Sub Goal	Objectives	Strategies	Tactics / Comments	Short: 6mo.- 3 yrs. Mid: 3 -5 yrs. Long: > 5 years	Responsible Party/Board/Commission
2 A	Improve understanding of pollutant loading of surface waters	Continue and expand water quality monitoring.	Access water quality of watersheds by sub-basins. Work with external experts.	Short	Conservation Commission
		Continuous education of contractors, residents and visitors on stormwater management best practices			Conservation Commission
2 B	Reduce identified sources of water pollution	Manage inventory of storm water mitigation projects with town responsibility	Add conservation projects to Highway Department budget. Encourage hardware stores to recommend shorefront friendly fertilizer. Reduce road salt use	Mid	Conservation Commission, Highway Department
		Develop Watershed Restoration Task Force	Encourage hardware stores to recommend shorefront friendly fertilizer.	Short	Conservation Commission, BOS
		Use land use board approvals and variances to ensure that new development design conforms to town stormwater management and groundwater protection ordinances. Verify		Mid	Planning Board, Zoning Board, Code and Enforcement Office
		encourage property owners to identify erosion areas on their land and take steps to mitigate it.			Conservation Commission
		Maintain Road to reduce salt use and ensure retention ponds capture silt and are maintained to remove accumulated sediment			Highway Department
2 C	Assure that septic systems do not pollute our water	Implement required inspections older than 20 years	Establish reimbursement strategy (town funds or grants) to assist homeowners in mitigating failed septic systems	Short	Conservation Commission, BOS, Town Land Use Boards
			Adopt pumping ordinance and suggest improvements when problems are discovered	Mid	Planning Board/Code and Code Enforcement Office

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			Require LIDS (Low Impact Disposal Systems) in high priority conservation areas	Mid	Planning Board, Zoning Board
			Enforce RSA for CEO notification and repair when septic problems are found during property sales.	Short	Code and Enforcement Office
		Reduce number of private septic systems	Extend sewer line and encourage community septic systems for large developments	Long	BOS/Town Land Use Boards
2 D	Strengthen Environmental Ordinances	Require storm water mitigation plans for developments in priority conservation areas under 20,000 SqFt		Mid	Planning Board, Zoning Board
		Review and update Storm Water Management Ordinances to define requirements for stormwater management and erosion controls for all construction sites (2008 Natural Resource		Long	Planning Board, Highway Department
		Adopt and enhance changes to the state Shoreland water quality protection act		Mid	Planning Board
		Increase minimum building lot size in priority conservation areas.		Mid	Planning Board
		Review natural resource ordinances for relevance, complexity and compliance	Revisit steep slopes ordinances.	Mid	Planning Board, Conservation Commission
		Pass an ordinance to make commercial landscapers and plowing firms accountable for improper application of fertilizer and salt.	Establish low salt zones	Mid	BOS

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		Investigate designating prime wetlands, uplands and vernal pool protection (2008 Natural Resource Chapter Goal #2 Action Item 7)		Mid	Conservation Commission
	Goal 3: Protect Ground Water				
Sub Goal	Objectives	Strategies	Tactics / Comments	Short: 6mo.- 3 yrs. Mid: 3 -5 yrs. Long: > 5 years	Responsible Party/Board/Commission
3 A	Know about systemic ground water problems as they occur	Develop a program to monitor and track well water quality in Moultonborough to understand the current state, and detect emerging trends in well water quality across the town.	Consider interviewing local well drilling companies to compile information and get recommendations to update GIS information and Ground Water Protection ordinance	Short	Conservation Commission
		Investigate ways to protect aquifers more effectively by restricting excessive commercial withdraw of groundwter			Conservation Commission/Town Planner

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Goal 4: Protect wildlife habitat and corridors					
Sub Goal	Objectives	Strategies	Tactics / Comments	Short: 6mo.- 3 yrs. Mid: 3 -5 yrs. Long: > 5 years	Responsible Party/Board/Commission
4 A	Maintain corridor connectivity.				
		Create a Wildlife Corridors GIS layer		Mid	Conservation Commission/Town Planner
		Establish wildlife inventory	Use game cameras along the known wildlife corridors. Have police document large animal road kills with GPS coordinates	Game Cameras: Mid Animal kill locaton: Short	Conservation Commission/Town Planner
		Consider use wildlife bridges and culverts to bypassheavily traveled roads	Learn from experts on how to better manage wildlife habitats	Long	Conservation Comission/DPW
		Identify specific properties with high-conservatin value and collaborate with their owners to achieve specific natural resource protection goals within High Priority Conservation Areas of		Long	Conservation Commission/Town Planner
		Encourage land use boards to adopt land control incentives that maintain corridor connectivity		Long	Conservation Commission/ Land use boards
4 B	Prevent new development from severely impacting habitat	Use conservation fund to protect, through purchase if required, high priority land		Short	Conservation Commission/ Town Planner
		Offer landowners in priority conservation areas help with conservation easement and land donation.	Use conservation funds	Short	Conservation commssion/ Town Planner
		Establish baseline assessment process of habitat, corridors, flora and fauna present on large development sites, commercial and private, in high priority conservation areas.		Mid	Planning Board
		Require mitigation plans to prevent loss of wildlife habitat and corridors, and degradation of wetlands and vernal pools, when large		Mid	Planning Board, Zoning Board

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	Goal 5: Preserve Moultonborough's Rural Character.				
Sub Goal	Objectives	Strategies	Tactics / Comments	Short: 6mo.- 3 yrs. Mid: 3 -5 yrs. Long: > 5 years	Responsible Party/Board/Commission
5 A	Define and inventory scenic vistas and viewsheds	Create viewshed GIS Layer		Mid	Heritage Commission
5 B	Maintain waterfront tree line		Enforce shoreline tree ordinances	Short	Code and Compliance
5 C	Establish a skyline overlay district that prohibits clear cutting above 800' above sea level and development that degrades the natural beauty of ridgelines and steep slopes.	Establish Skyline Overlay District		Mid	Planning Board
5 D	Strengthen sign ordinance			Mid	Planning Board
5 E	Encourage mountain canopies to hide upland development			Mid	Planning Board, Zoning Board
5 F	Improve and encourage public access to conserved land	List hiking trails	Add new trails via permission from private land owners.	Short	Conservation Commission
5 G	Protect scenic byways	Define requirements for scenic protection	Designate scenic highways	Mid	Conservation Commission and Heritage Commission
5 H	Reduce light pollution of the sky	Strengthen commercial lighting ordinance			Planning Board

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5 I	Add to conserved land	Hold seminars on how to conserve land	Encourage public donations to conservation fund	Mid	Conservation Commission
Goal 6: Foster Partnerships and Collaboration with town boards and external organizations					
	Objectives	Strategies	Tactics / Comments	Short: 6mo.- 3 yrs. Mid: 3 -5 yrs. Long: > 5 years	Responsible Party/Board/Commission
6 A	Encourage and participate in town Joint land use board meetings		Meet more frequently than once/quarter	Short	Town Planner
6 B	Identify projects and activities on which to partner.	Encourage and participate in town joint land use board meeting to understand goals, objective, challenges and opportunities land use boards are addressing. Provide input and assistance to achieve common objectives		Short	All town departments and boards
		Arrange and participate in meetings with conservation groups and forums within the region		Short	Conservation Commission
		Keep ordinance to current state standards		Mid	Planning Board
		Employ Engineer for peer review of major developments and renovations that involve runoff mitigation		Short	Planning Board
		Add extra considerations for projects in high priority conservation areas.		mid	All town departments and boards
6 C	Educate public on conservation and natural resources	Add environmental issues to parks and recreation programs. Sponsor local Naturalist hikes	Learn from what LRCT, SLCS, Castle and others already do.	mid	Recreation Dept and Conservation Commission
		Add conservation topics to tax bill news letter		short	Conservation Commission
		Create and distribute maps of public access to conserved land		mid	Conservation Commission
		Publish manual on conservation oriented ordinances		mid	Land use boards