MANAGEMENT of RISK TOOLS

METHOD	ACTIONS/STRATEGIES	Immediate,	Check
WETHOD	ACTIONS/STRATEGIES	short term,	CHECK
		long term,	
		ongoing	
Acquisition/Control	Landownership of isolation zone around water		
	source (minimum of 200 ft)		
	Own or acquire land within the Source Protection		
	Area to increase control of land uses and activities		
	occurring in the SPA; exercise First Right of Refusal.		
	Easements		
	Restrictive Covenants, Homeowner Association		
	policies		
	Deed Restrictions		
	Partner with Land Trusts for conserved lands		
	DWGPD funding opportunities for acquisition		
	Transfer of Development Rights		
Communication	Talk with Landowners/business owners		
This is a key tool for	Promote voluntary participation		
Promoting protection.	Perform field visits, conduct surveys		
The management of	Attend and participate in local town board and		
contaminants from	committee meetings and hearings (planning,		
PSOCs is a process which	zoning, Selectboard, conservation commission,		
requires at least some	Recreation, sewer and water, fire dept.)		
level of cooperation from	Reach out to Emergency Contacts (Fire, police,		
the person or persons	emergency management, Health officer)		
responsible for the	Hold Informational Gatherings		
activity which is the	Present/Display at Town Meeting Day		
PSOC.	Annual letters, newsletters, notes in billing		
At a minimum, the	statements and or CCR (Consumer Confidence		
Water System must	Report)		
notify all landowners			
within the SPA of the Source Protection Plan.			
Source Protection Plan.			
Forestry Stewardship	Develop and maintain a Forest Management Plan		
Torestry stewardship	and Timber Harvest Plan for the Town/Municipal		
	Forest and other forested lands within the SPA		
	Inform individuals about participation in the		
	Current Use Program		
	Promote Acceptable Management Practices for		
	Maintaining Water Quality on Logging Jobs in VT,		
	revised August 2018.		
	Encourage Best Management Practices.		
	Develop relationship with County Forester		
	Promote and participate, as applicable, in forest		
	stewardship incentives and opportunities provided		
	by the US Forestry Service, VT Forest Parks and		
	Recreation Service, and NRCS		

METHOD	ACTIONS/STRATEGIES	Immediate,	Check
		short term,	
		long term,	
		ongoing	
Educational	Distribute information handouts and brochures		
Opportunities	(i.e., "Do your Part. Be Septic Smart" produced by		
	EPA), fact sheets, direct mail. Use digital and social		
	media for messaging, email blasts.		
	Promote VT Dept. of Health drinking water testing		
	for private wells		
	Demonstrate with Ground Water Flow Model		
	(model available from VRWA, Friends of the		
	Winooski, ANR, AOT) Insert Flyers in water bills & CCRs		
	Town Meeting Day displays and handouts		
	School classroom demonstrations		
	Be a guest speaker (LEPC-Local Emergency Planning		
	Commission, schools, Board Meetings,		
	Conservation Groups, Rotary, Fire Dept. etc.)		
	Work with local Conservation Commission, schools,		
	scouting, 4H and other similar organizations to		
	plant Vegetative Buffer Strips along waterways.		
	Sponsor a Household Hazardous Waste Day with		
	the solid waste district.		
	Maintain your water systems Operator Training		
	Post signage of the SPA boundary		
	Promote use of Storage Tank Program of the VT		
	Waste Management and Prevention Division for		
	above ground and underground tanks.		
	Plant buffer strips to intercept storm water runoff		
	from parking lots.		
	sponsor/provide trainings of EM personnel on		
	water system SPA and facility infrastructure,		
	storage of chemicals, etc.		
Agricultural	Promote use of VT Required Agricultural Practices		
Conservation Practices	and Best Management Practices		
	Inform individuals of the NRCS Conservation		
	Programs and priority conservation practices that		
	encourage and promote source water protection: Groundwater testing		
	Well Decommissioning		
	➤ Integrated Pest Management		
	Nutrient Management		
	Filter Strips		
	> Riparian Forest Buffer		
	Field Borders		
	Cover CropsHeavy Use Area Protection		
	Conservation Crop rotation		
	Agrichemical Handling Facility		
	National Water Quality Initiative, Farm Bill-priority		
	watersheds & conservation practices (EQIP, RCPP)		
	1 , , , ,	1	1

METHOD	ACTIONS/STRATEGIES	Immediate,	Check
	1	short term,	
		long term,	
		ongoing	
Public Water System	Well camera investigations – detect cracks, leaks,		
Infrastructure	well casing condition		
Improvements	Perform scheduled monitoring and sampling for		
	water quality		
	Review and Analyze Existing Data, monitoring		
	samples, etc. to better understand what		
	contaminants are being monitored, where pollution		
	problems may exist, and where to focus pollution		
	control initiatives. Look for increasing trends and		
	potential contaminants.		
	Install barriers such as fencing, bollards, or cement		
	blocks to protect well casing.		
	Provide secondary containment for chemical and		
	fuel/oil storage. Follow proper handling and		
	storage practices.		
	Maintain & Inspect facility components- i.e.,		
	properly fitted well caps, screening, locks,		
	secondary containment, pumps, storage tanks		
	New treatment systems and sources		
	Replace broken or leaky water lines		
	Maintain and Update O&M Manual to address any		
	new infrastructure improvements.		
Land Use Regulations	Work with local Planners to ensure source water		
and Planning	protection and Public water systems are		
Evaluate the options for	incorporated into the Town Plan, Regional Plan,		
local government to	municipal Emergency Management Plan, local		
participate in SPA	Hazard Mitigation Plan, Road policies, Watershed		
protection. In most	Management Plan, Stormwater Management Plan,		
cases, local	etc.		
governmental support	Adopt & maintain Zoning Regulations and Overlay		
will greatly facilitate	Districts to provide minimum isolation distances &		
source protection.	regulate land use activities within SPAs & APAs.		
	Adopt a Groundwater Protection Ordinance		
	Groundwater Reclassification		
	Work with Selectboards, Public Works		
	Departments, Homeowner Associations, and		
	businesses to institute a road salt reduction policy		
	Participate in local, state, and regional permitting		
	applications and decisions such as Act 250 and		
	Section 248, Subdivisions, Special Use Permits.		
	Participate in master stormwater planning and		
	MRGP (Municipal Roads General Permit).		
	Ensure Hazard Mitigation Plan considers hazards		
	impacting both water quality & quantity. Floods,		
	drought, & ice storms impact drinking water		
	supplies. Consider incidents of vandalism,		
	cybercrimes, and bioterrorism.		

METHOD	ACTIONS/STRATEGIES	Immediate, short term, long term, ongoing	Check
FORM STRONG PARTNERSHIPS	Town/Village Public Works Department, Municipal Departments and Officials		
Source water protection involves everyone	Friends of the Winooski River, Friends of the Mad River		
	VT Land Trust VT Natural Resource Conservation Service (NRCS VT Association of Conservation Districts (VACD)		
	County Forester UVM Extension Service		
	VT Rural Water Association Utilities- GMP, WEC, VELCO, Railroads, Solar entities		
	Well Driller Associations Municipal Officials		
	Lake Shore Associations Emergency Responders – Fire, Police, EMDs, LEPC, Haz Mat		
	Rotary and Business Development organizations Solid Waste District		
	Schools and colleges VT Agency of Natural Resources DEC programs		
	VT Dept. of Health VT Dept. of Agriculture		
	VT Agency of Transportation VT Forest, Parks, and Recreation		
	VT Emergency Management Many Others		