GROUNDWATER AND DRINKING WATER RESOURCES FOR VERMONT PLANNERS – 6/9/2017 DRAFT	
QUESTION	ONLINE RESOURCE
What groundwater resources and maps are available for our town? How can I find out if we	http://dec.vermont.gov/geological-survey/groundwater/town-gw Local Groundwater Resource Studies – Vermont Geological Survey
have arsenic, uranium, or other naturally occurring contaminants?	http://dec.vermont.gov/geological-survey/geology-and-health Geology and Health - Vermont Geological Survey
Is our groundwater use proposed to increase in	http://www.healthvermont.gov/tracking - Health Department Tracking Data https://pubs.usgs.gov/sir/2010/5053/ - USGS Study - Estimated Water Withdrawals and Return
the future? If so, in which part(s) of town?	Flows in Vermont in 2005 and 2020 http://anrmaps.vermont.gov/websites/anra5/ Click on Drinking Water and Groundwater; layer is called
How can groundwater resource maps be used in	"Groundwater Withdrawals – Projected 2020" and data is displayed by census block http://www.mngs.umn.edu/user_guide_v1.pdf - Geologic Atlas User's Guide: Using Geologic
the planning process? Are there any public water systems in my town?	Maps and Databases for Resource Management and Planning https://anrnode.anr.state.vt.us/DWW/
	Vermont Drinking Water Watch (searchable by county or system name) http://anrmaps.vermont.gov/websites/anra5/ Click on Drinking Water and Groundwater: Layer is called "Public Water Sources"
Are there any source protection areas in my town?	http://anrmaps.vermont.gov/websites/anra5/ Click on Drinking Water and Groundwater: Layers are called "Surface Water SPA" and "Groundwater SPA"
Is there anything more we can do protect the	(these terms replace the older "Aquifer Protection Area" and "Wellhead Area") http://dec.vermont.gov/water/groundwater-reclassification
groundwater in our town?	Petition for Vermont's Class II Groundwater Designation https://www3.epa.gov/region1/eco/drinkwater/pc solesource aquifer.html Petition for Sole Source Aquifer status from US EPA Region 1
Is there a factsheet or more information for groundwater reclassification?	http://dec.vermont.gov/sites/dec/files/dwgwp/gwreclass/pdf/classiandiiprocedure2008.pdf Class II Groundwater (uniformly excellent character) http://dec.vermont.gov/sites/dec/files/dwgwp/gwreclass/pdf/gwreclassivfactsheet.pdf
What should we be thinking about if we might want to develop a small water system for our	Class IV Groundwater (non potable) http://accd.vermont.gov/community-development/funding-incentives/municipal-planning-grant - Vermont ACCD Municipal Planning Grants
village in 5 years? 20 years? What do we do if water sources (private wells,	http://dec.vermont.gov/grant-loan-programs - Vermont DEC Grant and Loan Programs http://dec.vermont.gov/facilities-engineering/water-financing/on-site-loan - On Site Loan
village springs, etc.) in our town run dry?	http://dec.vermont.gov/grant-loan-programs - Vermont DEC Grant and Loan Programs

GROUNDWATER AND DRINKING WATER RESOURCES FOR VERMONT PLANNERS – 6/9/2017 DRAFT	
QUESTION	ONLINE RESOURCE
How do I include drinking water concerns in our	http://demhs.vermont.gov/plans/local-hazard
local hazard mitigation plan? Local emergency	Vermont Emergency Management – local hazard mitigation & emergency operations
operations plan?	https://www.epa.gov/sites/production/files/2016-08/documents/160815-
	hazardmitigationfornaturaldisasters.pdf
	EPA Guide for Water Utilities – Hazard Mitigation for Natural Disasters
Do I need to be concerned about lead in our	https://anrnode.anr.state.vt.us/DWW/
school's drinking water?	Enter the school name in Vermont Drinking Water Watch
	Click on Lead and Copper Sample Summary Results
	http://dec.vermont.gov/water/drinking-water/water-quality-monitoring/lead-copper-rule-
	<u>resources</u>
	Vermont DEC - Lead and Copper Rule Resources
How do I find out how much water our municipal	https://anrnode.anr.state.vt.us/DWW/
system has left to allocate for development?	Vermont Drinking Water Watch – use this tool to search for your municipal system and contact
	the operator (DO) or administrative contact (AC)
Is there a national guide for planners?	http://sourcewatercollaborative.org/guide-for-land-use-planners/
	National Source Water Collaborative – Guide for Land Use Planners
Are there any resources that could help us show	http://www.nature.org/beyondthesource
the benefits of source protection?	Beyond the Source: The environmental, economic and community benefits of source water
	protection – 2017 Report from The Nature Conservancy
	http://www.swptool.org/index.cfm
	Source Water Protection Cost/Benefit Tool
	https://www.awwa.org/resources-tools/water-knowledge/source-water-protection.aspx
	Source Water Protection Resource Community from AWWA – including link to report - Effect
	of Forest Cover on Drinking Water Treatment Costs
Where can I find information about Vermont's	http://dec.vermont.gov/water/drinking-water/public-drinking-water-systems/source-water-
source protection regulations?	protection
	Source Water Protection Program - Drinking Water and Groundwater Protection Division
	http://dec.vermont.gov/sites/dec/files/dwgwp/dwrules/pdf/vtwsr2010.pdf
	2010 Vermont Water Supply Rule
	*There are also references to source water protection areas and water supplies in many other
	state regulations such at the AST and UST Rules, Stormwater Management Manual, Required
	Agricultural Practices, and Solid Waste Management Rules
What does it mean when a public water source	http://dec.vermont.gov/sites/dec/files/documents/dec-water-supply-rule-2010-12-01.pdf
or source protection area is grandfathered?	While there are prohibited land uses for a 200' radius for a public water source in the Water
	Supply Rule (App Pg 23), these restrictions are only considered during source permitting.

PRESENTER	ONLINE RESOURCE REFERENCED IN PRESENTATION
Marjorie Gale	http://dec.vermont.gov/geological-survey/groundwater/statewide-gw
	Statewide Groundwater Resource Maps - VGS Water Well Data, Bedrock Type and IDW
Liz Royer	http://dec.vermont.gov/sites/dec/files/dwgwp/sourceprot/pdf/ounceofprevention.pdf
	Ounce of Prevention – A Groundwater Protection Handbook for Municipal Officials (Vermont
	DEC) - Model Groundwater Protection Ordinance found in Appendix A – Page 59
	http://www.neiwpcc.org/sourcewateroutreach/
	Protecting Drinking Water Sources in Your Community, A New Source Water Protection Tool
	for Municipal Officials (from NEIWPCC)
Josh Cox and Lauren Oates	http://floodready.vermont.gov/find_funding/hazard_mitigation_assistance
	Hazard Mitigation Assistance – Vermont DEMHS
Rick Kiah	https://groundwaterwatch.usgs.gov/netmapT2L1.asp?ncd=NHV
	NH&VT Groundwater Level Network
	https://webdmamrl.er.usgs.gov/g1/ggranato/Software/HyDroDSS.html
	Hydrologic Drought Decision Support System
	https://pubs.usgs.gov/sir/2009/5227/
	Sustainable Yield Estimator
	https://pubs.er.usgs.gov/publication/sir20155047
	Simulating hydrologic response to climate change scenarios
Chi Ho Sham	http://sourcewatercollaborative.org/guide-for-land-use-planners/
	Advice Worth Drinking: How today's land use decisions can protect tomorrow's water supply
Hard Copy Handouts at Workshops	https://www.tpl.org/sites/default/files/cloud.tpl.org/pubs/water-
	protecting the source final.pdf
	Protecting the Source – Land Conservation and the Future of America's Drinking Water (TPL)