

GROUNDWATER AND DRINKING WATER RESOURCES FOR VERMONT PLANNERS – *Nov. 1, 2024 revision*

QUESTION	ONLINE RESOURCE
What groundwater resources and maps are available for our town? How can I find out if we have arsenic, uranium, or other naturally occurring contaminants?	http://dec.vermont.gov/geological-survey/groundwater/town-gw Local Groundwater Resource Studies – Vermont Geological Survey http://dec.vermont.gov/geological-survey/geology-and-health Geology and Health - Vermont Geological Survey http://www.healthvermont.gov/tracking - Health Department Tracking Data
Is our groundwater use proposed to increase in the future? If so, in which part(s) of town?	https://pubs.usgs.gov/sir/2010/5053/ - USGS Study - Estimated Water Withdrawals and Return Flows in Vermont in 2005 and 2020 http://anrmaps.vermont.gov/websites/anra5/ Click on Drinking Water and Groundwater; layer is called “Groundwater Withdrawals – Projected 2020” and data is displayed by census block
How can groundwater resource maps be used in the planning process?	http://www.mngs.umn.edu/user_guide_v1.pdf - Geologic Atlas User’s Guide: Using Geologic Maps and Databases for Resource Management and Planning
Are there any public water systems in my town?	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” (these terms replace the older “Aquifer Protection Area” and “Wellhead Area”)
Is there anything more we can do protect the groundwater in our town?	http://dec.vermont.gov/water/groundwater-reclassification 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 Class IV Groundwater (non potable)
What should we be thinking about if we might want to develop a small water system for our village in 5 years? 20 years?	http://accd.vermont.gov/community-development/funding-incentives/municipal-planning-grant - Vermont ACCD Municipal Planning Grants http://dec.vermont.gov/grant-loan-programs Vermont DEC Grant and Loan Programs
What do we do if water sources (private wells, village springs, etc.) in our town run dry?	https://dec.vermont.gov/water-investment/water-financing/on-site-loan On Site Loan http://dec.vermont.gov/grant-loan-programs - Vermont DEC Grant and Loan Programs

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<p>How do I include drinking water concerns in our local hazard mitigation plan? Local emergency operations plan?</p>	<p>http://demhs.vermont.gov/plans/local-hazard Vermont Emergency Management – local hazard mitigation & emergency operations https://www.epa.gov/sites/production/files/2016-08/documents/160815-hazardmitigationfornaturaldisasters.pdf EPA Guide for Water Utilities – Hazard Mitigation for Natural Disasters</p>
<p>Do I need to be concerned about lead in our school’s drinking water?</p>	<p>http://dec.vermont.gov/water/drinking-water/water-quality-monitoring/lead-copper-rule-resources Vermont DEC - Lead and Copper Rule Resources</p>
<p>How do I find out how much water our municipal system has left to allocate for development?</p>	<p>https://anrapp.vermont.gov/dwlibrary/ Drinking Water Public Library – search by water system name or water system ID number. Search for your municipal system and contact the operator (DO) or administrative contact (AC)</p>
<p>Is there a national guide for planners?</p>	<p>http://sourcewatercollaborative.org/guide-for-land-use-planners/ National Source Water Collaborative – Guide for Land Use Planners</p>
<p>Are there any resources that could help us show the benefits of source protection?</p>	<p>https://www.nature.org/en-us/ Beyond the Source: The environmental, economic and community benefits of source water protection – 2017 Report from The Nature Conservancy https://www.awwa.org/ Source Water Protection Resource Community from AWWA – including link to report - Effect of Forest Cover on Drinking Water Treatment Costs</p>
<p>Where can I find information about Vermont’s source protection regulations?</p>	<p>http://dec.vermont.gov/water/drinking-water/public-drinking-water-systems/source-water-protection Source Water Protection Program - Drinking Water and Groundwater Protection Division https://dec.vermont.gov/drinking-water-and-groundwater-protection/laws-and-regulations 2024 Vermont Water Supply Rule *There are also references to source water protection areas and water supplies in many other state regulations such as the AST and UST Rules, Stormwater Management Manual, Required Agricultural Practices, and Solid Waste Management Rules</p>
<p>What does it mean when a public water source or source protection area is grandfathered?</p>	<p>https://dec.vermont.gov/drinking-water-and-groundwater-protection/laws-and-regulations While there are prohibited land uses for a 200’ radius for a public water source in the Water Supply Rule, these restrictions are only considered during source permitting.</p>

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Other Contacts	OTHER ONLINE RESOURCE
<p>State Geologist / Director: Benjamin DeJong, PhD, PG, (802) 461-5235, benjamin.dejong@vermont.gov</p>	<p>http://dec.vermont.gov/geological-survey/groundwater/statewide-gw Statewide Groundwater Resource Maps - VGS Water Well Data, Bedrock Type and IDW</p>
<p>Drinking Water Groundwater Protection Division</p> <p>Ian Dulin (he/him/his) Environmental Analyst NEIWPC idulin@neiwpc.org https://neiwpc.org/</p>	<p>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</p> <p>https://neiwpc.org/our-programs/gswp/source-water-protection-municipalities/ Protecting Drinking Water Sources in Your Community, An on-line Source Water Protection Tool for Municipal Officials (from NEIWPC)</p> <p>https://neiwpc.org/our-programs/gswp/</p>
<p>Stephanie Smith, DEMHS, Mitigation Section Chief stephanie.a.smith@vermont.gov</p>	<p>http://floodready.vermont.gov/find_funding/hazard_mitigation_assistance Hazard Mitigation Assistance – Vermont DEMHS</p> <p>https://vem.vermont.gov/funding/mitigation</p>
<p>Source Water Collaborative</p>	<p>http://sourcewatercollaborative.org/guide-for-land-use-planners/ Advice Worth Drinking: How today’s land use decisions can protect tomorrow’s water supply</p>
<p>Trust for Public Land</p>	<p>https://www.tpl.org/ Protecting the Source – Land Conservation and the Future of America’s Drinking Water (TPL)</p>

RESOURCE LISTING FOR PSOC INVENTORY AND ASSESSMENT OF RISK

The community should verify the accuracy of the data by conducting field surveys and using local knowledge. Not all potential contaminant sources will have available data for mapping, especially those that are unregulated. Many municipalities have the town parcel maps available on the town website and use CAI Technologies interactive mapping tool that allows you to specify and print parcel maps of a specific area.

DRINKING WATER PUBLIC LIBRARY-find water system records archived in the Divisions record database.

<https://anrapp.vermont.gov/dwlibrary/>

DEC DATA SETS - Environmental records -search for Waste Management (Hazardous Sites, Brownfield Sites, Spills, UST, Hazardous Waste, Solid Waste, Salvage Yards, AST, Dry Cleaners, PFAS Samples), Ground Water Reclassification, and Watershed (Stormwater and Wetlands) data files:

<https://anrweb.vt.gov/DEC/ERT/>

<https://anrweb.vt.gov/DEC/ERT/UST.aspx>

The Environmental Consideration Online Tool will let you quickly identify critical features with a 1800 foot radius (549 meters) around the location of your choice. Just enter the address, the latitude and longitude, or zoom to the location and place a pin and hit Submit. This will bring up a table of features within the radius. These features are layers for Public and Private wells, Wetlands, Hazardous Sites, Groundwater Classification areas (II and IV), Source Protection Areas, roads, streams, parcels

<https://anrweb.vt.gov/DEC/ECON/map.aspx>

DEC SPILL MANAGEMENT:

<https://dec.vermont.gov/waste-management/spills#SpillReporting>

WASTEWATER REGIONAL OFFICE PERMIT SEARCH:

<https://anrweb.vt.gov/DEC/WWDocs/Default.aspx>

ANR NR Atlas LAYERS

<https://anrmaps.vermont.gov/websites/anra5/>

TIER II REPORTS (contact your local Fire Chief or the state EPCRA Program Manager for Tier II reporting facilities in your community):

Patrick McLaughlin EPCRA (Tier II) Program Manager

Cell (802) 585-4468

Email Patrick.Mclaughlin@vermont.gov

<https://vem.vermont.gov/programs/epcra>

INDIRECT DISCHARGE PERMITS

https://anrweb.vt.gov/DEC/_DEC/FIDP.aspx

VT AGENCY OF AGRICULTURE, FOOD AND MARKETS

Pesticide Program (Permits, Golf Courses, ROW)

<https://agriculture.vermont.gov/public-health-agricultural-resource-management-division/pesticide-programs>

<https://agriculture.vermont.gov/public-health-agricultural-resource-management-division/pesticide-programs/pesticide-permits>

FLOOD READY (Flood Maps/Flood Risk/Community Reports):

<https://floodready.vermont.gov/>

LOCAL KNOWLEDGE AND TOWN CLERK AND OR TOWN PLANNING/ZONING OFFICE.

<https://maps.vcgi.vermont.gov/parcelviewer/>