

**GROUNDWATER WITHDRAWAL PERMIT
APPLICATION**

This application initiates the Drinking Water and Groundwater Protection Division's review and permitting process for source development of a Groundwater Source to serve a Proposed or Existing Industrial/Commercial facility withdrawing greater than 57,600 gpd. Domestic Bottled or Bulk drinking water supply sources withdrawing any amount are required to obtain a separate permit. A site visit will be scheduled following receipt of a complete application. Following construction of the source the applicant shall submit a source testing proposal (on a form provided by the Secretary). After receiving state approval for the source testing proposal, the applicant shall conduct source testing and address undue adverse impact concerns. At the "draft" source evaluation report stage, the applicant and/or applicant's consultant shall notice and attend a public informational meeting for public comment. The applicant shall submit a final source evaluation report that addresses the relevant concerns. Once the applicant satisfies all administrative and technical requirements the state will issue a Groundwater Withdrawal Permit. The forms referenced above may be found on our website at www.vermontdrinkingwater.org

This line for Division use only: Project ID (PID) # _____ Associated WSID # _____	Code	Date
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Division codes: **C** = completed, **NR** = not required, **IR** = info. Required, **TBD** = to be determined

1. a) Applicant name:		
Daytime phone: _____ e-mail: _____		
Mailing address: _____		
b) Co-Applicant (source owner):		
Daytime phone: _____ e-mail: _____		
Mailing address: _____		
c) Hydrogeologic Consultant:		
Daytime phone: _____ e-mail: _____		
Mailing address: _____		
d) Source property deed or easement and attorney's opinion attached:		
e) Town project is located within:		
f) Facility/Project name:		

2. GPS coordinates of the proposed withdrawal point(s), and of any existing water sources on the same tract of land or place of business, each with an accompanying unique identification. Use the NAD 83 format (report in Degrees, Minutes, and Seconds) for the horizontal GPS coordinates:		
3. a) Requested withdrawal rate: _____ gallons per minute (GPM)		
b) Source of the proposed withdrawal (check applicable type): <input type="checkbox"/> Spring <input type="checkbox"/> Bedrock Drilled Well <input type="checkbox"/> Sand/Gravel Drilled Well <input type="checkbox"/> Dug Well <input type="checkbox"/> Other (describe): _____		

c) Withdrawal Information:				
<i>Time frame:</i>	<i>Peak amount:</i>	<i>Mean amount:</i>		
Estimated daily withdrawal:	_____ gallons	_____ gallons		
Estimated monthly withdrawal:	_____ gallons	_____ gallons		
Estimated yearly withdrawal:	_____ gallons	_____ gallons		

4. Describe the use of the groundwater withdrawal:

5. a) Identify proposed and existing withdrawal location(s) on a USGS map:
 b) List the previously assigned permitted withdrawal volumes, established safe yields, or the known flow or withdrawal rates of the applicant's other water sources (if any) on this or contiguous parcels:

6. a) Describe the place and manner of the return flow for the water:
 b) If applicable, identify the return flow location(s) on an appropriately scaled map:

7. Estimated yearly amount of water that will not be returned to the watershed where the proposed withdrawal is located: _____ Gallons

8. Attach a signed and dated certification by the applicant that they have met the **pre-application public notification and informational meeting** requirements:

9. a) Describe the alternate means considered for satisfying the stated purpose of the water withdrawal:
 b) Describe how the withdrawal is planned in a fashion that provides for efficient use of the water:

10. a) Attach the relevant portions of the municipal plan and regional plan, if any, that address the use of groundwater:
 b) Attach a signed and dated certification by the applicant that the proposed withdrawal is in conformance with the regional plan adopted for the area in which the proposed withdrawal is located, and that it is in conformance with the municipal plan adopted for the municipality that the proposed withdrawal is located within:

11. a) Identify the proposed withdrawal locations on a map showing the subject parcel and any adjoining parcels within 200 feet of the withdrawal point with any required isolation distances to features measured from the withdrawal point and showing the location of associated measures for protecting the source from adverse impacts:
 b) Identify benchmarks and elevations for vertical references and show their locations on an appropriately scaled map:

12. Provide detailed plans of the proposed source construction:

13. a) Develop a water budget for the aquifer(s) where the withdrawal is taking place:
 b) Develop a conceptual hydrogeologic model of the withdrawal using the water budget developed:

Instructions
GROUNDWATER WITHDRAWAL PERMIT APPLICATION

Applicant shall provide the following information:

1. a) The applicant's name is the entity legally responsible for the groundwater withdrawal, or the person who has legal responsibility to act on the entities behalf. There may be more than one applicant. Attach an additional page if necessary with the following info.
Name, Mailing address, work phone number, and e-mail.
b) The co-applicant is the source owner if the source is owned by an entity other than the applicant, or is the person who has legal responsibility to act on the co-applicant's behalf.
If more than one co-applicant, provide the same information as for the applicant above.
c) The Hydrogeologic Consultant is the person who will be performing the technical aspects of evaluating the groundwater withdrawal in conformance with the Groundwater Withdrawal Reporting and Permitting Rules, Chapter 24 (hereafter referred to as Chapter 24).
d) Attach the deed or easement for the property the source is located on, include the Book and Page numbers, along with an attorney's opinion that the Applicant has permanent legal access and control of the water source and the appropriate surrounding land area for maintenance, protection of the aquifer, and prohibition of specific land use activities.
e) Town in which the groundwater withdrawal is located.
f) If an existing facility, the name of the facility making the groundwater withdrawal and the specific project name, or if a proposed facility, the name the facility will likely operate under.
2. Attach GPS coordinates corresponding to the proposed and existing source locations indexed to the proposed and existing sources' unique identifying names, numbers, or letters. Proposed and existing water supplies for the project shall be GPS located using the **NAD 83 format** (report in Degrees, Minutes, and Seconds). All proposed water withdrawal locations shall be securely marked and identified on the site in order to facilitate identification of the correct drilling or construction location.
3. a) State the groundwater withdrawal rate that is being requested in gallons per minute.
b) Check the appropriate source type, or provide a description if proposing an alternative source type.
c) Provide the estimated withdrawal amounts being requested by filling in the application form's matrix for the mean and peak, daily, monthly, and annual withdrawals.
4. Attach a description of what the groundwater withdrawal will be used for.
5. a) Attach a USGS map with the proposed withdrawal location accurately located. Label the proposed and any current source locations with unique source ID names, numbers, or letters. For existing sources, use their current designations if any.
b) List the previously assigned permitted withdrawals, established safe yields, or known flows or withdrawal rates of the applicant's other water sources (if any) on this or contiguous parcels.
6. a) Describe where the withdrawn water will be returned to the environment (e.g. wastewater soil based disposal site, a surface water discharge, infiltration basin).
b) If the return flow of the water is to the same aquifer or to the same river basin watershed that it was removed from, show this return location on an appropriately scaled map.
7. Estimate the yearly amount of water, in gallons, that will not be returned to the watershed where the proposed withdrawal is located.

8. Attach a signed and dated certification by the applicant that they have met the **pre-application** public notification and informational meeting requirements of Chapter 24, Section 24-403.
9. a) Attach a discussion of the alternate means the applicant considered for satisfying the stated purpose of the groundwater withdrawal, including connection to a public community water supply, and the rationale for the current request.
b) Attach a discussion of the examination of conservation measures to be implemented to reduce water consumption.
10. a) Attach the relevant portions copied from the municipal plan and regional plan, if any, that address the use of groundwater.
b) Attach a signed and dated certification by the applicant that the proposed withdrawal is in conformance with the regional plan adopted for the area in which the proposed withdrawal is located, and that it is in conformance with the municipal plan adopted for the municipality that the proposed withdrawal is located within.
11. a) Identify the proposed withdrawal location showing the subject parcel, and any adjoining parcels within 200 feet of the withdrawal point, showing any required isolation distances measured from the withdrawal point and showing the location of associated protective measures (e.g. bollards, berms, barriers) for protecting the source from adverse impacts on an appropriately scaled map, per Chapter 24, Section 24-501.
b) Identify bench mark locations and elevations on an appropriately scaled map and show features for which vertical elevations will be measured. Use GPS derived elevations for the benchmarks unless preexisting ones are available.
12. Attach detailed plans of the proposed source construction, per Chapter 24, Section 24-502.
13. a) Develop a water budget for the aquifer(s) the withdrawal is taking place from, considering all inputs and outputs. Identify the source of the data for any assumptions used and the reasoning for their choice in calculating the budget.
b) Develop a conceptual hydro-geologic model of the withdrawal, taking into consideration the water budget information, per Chapter 24, Section 24-503.
14. a) Based on the conceptual hydro-geologic model, delineate the potential Area of Influence in plan view, and in profile view show both the preexisting groundwater conditions and the conditions under maximum proposed withdrawal, with both maps at an appropriate scale that can adequately depict the information requested in items 15-18 listed below, per Chapter 24, Section 24-503.
b) Describe how the potential Area of Influence was delineated, and when choosing from a range of variables, explain why those values were chosen in developing the potential Area of Influence.
15. a) A tax map or parcel map overlain on the proposed Area of Influence Map showing the parcel lines for individual land owners.
b) A List of all landowners cross indexed to the above map, including the owners name, mailing address, phone
16. Inventory of existing groundwater water sources and withdrawals within the potential Area of Influence, with locations identified on the map created in item 15 above, per Chapter 24, Section 24-504.
17. Inventory of surface waters and significant wetlands within the proposed Area of Influence, with

locations identified on the same map as the inventory of existing groundwater sources, per Chapter 24, Section 24-505.

18. Inventory the actual and potential contaminant sources within the potential Area of Influence, with locations identified on the same map as the inventory of groundwater sources, per Chapter 24, Section 24-506.
19. a) Provide a description of the estimated withdrawal effects on each of the contamination sources, surface water resources, groundwater uses, and on the long term response of the aquifer, per Chapter 24, Section 24-507.
b) Describe the mitigation measures to be implemented to remedy any expected undue adverse impacts. Include a letter of landowner consent if any activities are to be conducted on their property.
20. Provide a description of the Source Testing Program design, prepared in accordance with Chapter 24, Section 24-508.
21. Attach a list of all persons that were notified, as required, of this **permit application submittal**, a copy of the published notification, and verification that each was notified (name and address).
22. Attach withdrawal fee. Payment is by check or money order, made payable to the *State of Vermont*. The fee is \$2,300.00 per facility. The facility will be billed annually each successive year that the facility holds a valid Groundwater Withdrawal Permit.

NOTE: Drilling the permitted source deeper, hydro-fracturing the permitted source or increasing the withdrawal rate of the permitted source requires a new Groundwater Withdrawal Permit Application be submitted prior to undertaking any of these activities.

This (fact sheet/form/application) and related environmental information are available electronically via the internet. For information visit us through the Vermont Homepage at <http://www.vermont.gov> or visit directly at <http://www.vermontdrinkingwater.org>

Drinking Water and Groundwater Protection Division
1 National Life Drive, Main, 2nd Floor
Montpelier, VT 05620-3521
Toll free 1-800-823-6500
Out of State 1-802-241-3400
Fax 1-802-828-1541