

**Vermont Department of Environmental Conservation
Agency of Natural Resources
Drinking Water and Groundwater Protection Division**

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**PUBLIC WATER SYSTEM CONSTRUCTION PERMIT
Community**

PROJECT # C-3600-18.0
WATER SYSTEM: Bristol Water Department

PIN # RU95-0051
WSID #VT0005002

CO-PERMITTEE: Town of Bristol
Attn: Valerie Capels, Town Administrator

ADDRESS: PO Box 249, One South Street
Bristol, VT 05443

CO-PERMITTEE: Tom Sawyer Development, LLC
Attn: Susan Bowen

ADDRESS: 69 Birch Road
Shelburne, VT 05482

PROJECT NAME: **Interconnection of Bristol Water Department's and Woodland Apartments' Public community Water Systems (WSID # 5641 & WSID # 5002)**

TOWN LOCATION: Bristol, VT

This permit is issued by the Vermont Department of Environmental Conservation, Drinking Water and Ground Water Protection Division (the Division), under the authority 10 V.S.A., Chapter 56, to be constructed in accordance with the technical standards specified under the Vermont Water Supply Rule, Chapter 21, last revised December 1, 2010.

The co-applicants propose to interconnect the Bristol Water Department's and Woodland Apartments' Water Systems at the 4-inch PVC water main at the intersection of Lovers Lane and Woodland Drive.

This project/activity requires a construction permit because it involves the construction, alteration, renovation, or conversion of a Public Water System by installing greater than 500 lineal feet of 4-inch C900 PVC piping a pressure reducing valve and appurtenances, which will affect the quality or quantity of the water to be delivered by the Pubic Water System, as described by Subchapter 21-4, Section 4.01 of the Vermont Water Supply Rule, Chapter 21.

Subject to the conditions included herein, Woodland Apartments (WSID VT0005641), is authorized to: install 550 lineal feet of 4-inch C900 PVC pipe, a pressure-reducing valve and vault, a flushing hydrant, and all associated appurtenances. The two existing well sources and associated well house supplying the current Woodland Apartments Water System shall be decommissioned. The project scope is shown on the approved design documents identified in Section B.1 of this Permit.

The Bristol Water Department has agreed to assume operational control monitoring responsibilities for the distribution system serving the Woodland Apartments community Public Water System following the engineer's certification of completion of construction authorized by this permit. A Consecutive Public Water System Exemption Application and Certification Form has been signed by the two Co-permittees to document the agreement and was provided as part of the application for the permit.

This permit is based on a review that determined that the proposed project, if built in accordance with the approved plans and specifications, will conform to the Vermont Standards for Water System Design, Construction, and Protection (Design and Construction Standards) contained in Appendix A of the Vermont Water Supply Rule (Rule), and will therefore not constitute a public health hazard or a significant public health risk. The review did not, however, include the structural engineering aspects of this project.

A. Special Conditions

1. This Permit authorizes construction of the new Public community Water System described in Condition B.1 but does not authorize operation of the new Public drinking water supply system. A new or revised Operating Permit will be issued to the Town of Bristol Water Department following the completion of the construction project authorized by this Permit. The Permittees shall adhere to the following conditions related to the project authorized by this Permit:
 - i. Written notification shall be provided by the Permittee to the Division (Attn *Cynthia Parks and Patrick Smart*) **two weeks prior to Substantial Completion** indicating when the work authorized under Construction Permit # C-3600-18.0 and the associated testing are anticipated to be successfully completed. The Division may choose to conduct an inspection;
 - ii. The Permittee shall not place the new Public community Water System into operation serving water to the Public without receiving written authorization from the Division.
2. The Division shall be notified in writing *45 days* in advance should for any reason the Consecutive Public Water System Exemption Agreement between the wholesaler, Bristol Water Department, WSID VT0005002, and the consecutive Public Water System, Woodland Apartments, WSID VT0005641, become null and void.

3. The two existing well sources for the Woodland Apartments Public Water System, WL001 (permitted) and WL002 (emergency/unpermitted), shall be physically abandoned (disconnected and filled) following construction completion and closed according to the requirements specified under Appendix A, Part 12.4.18 of the Rule. These actions shall be documented on the Record Drawings and all associated documentation contained in the Water System's (5641 & 5002) Operations & Maintenance Manual(s).

B. Standard Conditions

1. The project shall be constructed, tested, and inspected in accordance with this permit and the approved engineering drawings and specifications prepared by East Engineering, PLC listed below:

Drawings Reviewed		
Drawing Number	Drawing Date	Last Revision Date
C-001 and C-002	2018-01-19	2108-08-13

The total number of engineering drawings received by the Vermont Department of Environmental Conservation (Department) for this project is **two (2)**.

2. All construction on this project must be completed by **August 31, 2020**. If construction has not been completed by that date, this permit shall expire, and a new permit must be obtained before construction can continue.
3. No new or modified water service connections shall be constructed without first receiving a determination by the Department whether a Wastewater System and Potable Water Supply Permit is required.
4. Field inspection of the project shall be performed under the responsible charge of a Vermont licensed professional engineer.
5. Prior to being placed in operation, the newly constructed portions of the Water System shall be flushed, pressure tested, disinfected, and flushed again. After this procedure, at least two samples must be collected from representative sample points and sent to the Vermont Department of Health Laboratory at 359 South Park Dr., Colchester, VT 05446 (or any other Vermont Department of Health certified laboratory) for Bacteriological Examination of Public Water Supply. The Permittee shall indicate on the laboratory form that it is for Construction Permit compliance. Coliform Absent sample results are required before the system may be placed "on line" for potable water use. The pressure/leakage and

bacteriological test results shall be submitted to the Department of Environmental Conservation along with the Record Drawings.

6. An Operation and Maintenance (O&M) Manual addressing all work authorized by this permit shall be submitted to the Department and the Bristol Water Department (WSID VT0005002) within 60 days of final project field inspection and approval by the responsible professional engineer.
7. Record drawings shall be prepared by the professional engineering firm responsible for observation of construction and shall depict the system as it was constructed, including any field modifications. Record Drawings shall be dated, contain the engineer's Construction Certification, shall include the professional engineer's seal and signature, and shall be submitted to the Department, the Woodland Apartments Water System (WSID VT0005641), and the Bristol Water Department (WSID VT0005002) within 60 days of final field inspection and approval by the responsible professional engineer.
8. The following Construction Certification shall be prepared by the professional engineering firm responsible for observation of construction:
 - i. "I hereby certify that in the exercise of my reasonable professional judgment the construction-related information submitted is true and correct and that the components of the public water system authorized by the Public Water Supply Construction Permit # **C-3600-18.0**:
 1. Were installed in accordance with:
 - a. The permitted design and all permit conditions; or
 - b. Record Drawings and such Record Drawings are in compliance with the applicable rule, were filed with the Secretary, and are in accordance with all other permit conditions;
 2. Were inspected;
 3. Were properly tested; and
 4. Have successfully met those performance tests."
9. Until the construction authorized by this permit has been completed and the Record Drawings have been submitted, this permit is not transferable or assignable and it shall automatically become invalid upon a change of ownership or upon suspension or revocation.
10. No changes shall be made to the permitted project without the written approval of the Department. A new or amended Construction Permit is required for all significant system improvements, or modifications for the Water System pursuant to Subchapter 21-4, Section 4.0.1 of the Rule and shall conform to the Design and Construction Standards.
11. By acceptance of this permit, the Permittee agrees to allow representatives of the State of Vermont access to the project, at reasonable times, for the purpose of ascertaining compliance with Vermont environmental laws and this permit.

12. Pursuant to 10 V.S.A. Chapters 56, 201 and 211, any violation of the terms and conditions of this permit, including any compliance schedule, is grounds for the initiation of an enforcement action by the State against the Permittee.
13. This permit may be appealed to the Environmental Division of the Superior Court within 30 days of the date of the decision in accordance with 10 V.S.A., Chapter 220.
14. This final permit decision is issued and becomes effective on the date it is posted to the Environmental Notice Bulletin.

Signed at Montpelier, VT this 5th day of September, 2018

Emily Boedecker, Commissioner
Department of Environmental Conservation

By: Bryan J. Redmond
Bryan Redmond, Division Director
Drinking Water and Groundwater Protection Division

cc: Co-permittees by Email: Town of Bristol – Attn: Valerie Capels
<townadmin@bristolvt.org>
Tom Sawyer Development, LLC – Attn. Susan Bowen
<susan_bowen@comcast.net>
Designated Operator – Rick Chaput <vrchaput@gmail.com>
East Engineering, PLC - Tyler Billingsley, PE <tyler@eastengineeringplc.com>
Green Mountain Engineering, Inc. – Alan Huizenga, PE <ahuizenga@gmeinc.biz>
Dave Swift, Alicia Owen – Rutland Regional Office, DEC/DWGPD
Ellen Parr-Doering, Tim Raymond, Pat Smart – DEC/DWGPD
Helen Banevicius, Theresa Petzoldt, Cindy Parks – DEC/DWGPD
Ben Montross, Amy Galford, Janelle Wilbur, Ken Yelsey – DEC/DWGPD
WSIDs VT0005002 and VT0005641

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Public Water System Construction Permit Public Comment Response

For: Attachment to C-3600-18.0, Interconnection of Bristol Water Department's and Woodland Apartments' Public Community Water Systems (WSID # 5641 & 5002)

From: Drinking Water Groundwater Protection Division

Date: September 5, 2018

Subject: No Comments Received

The Environmental Notice Bulletin Version 2 (ENB) public comment period for the following Public Water System Construction Permit ended on September 4, 2018:

PID#: C-3600-18.0

Project Name: Interconnection of Bristol Water Department's and Woodland Apartments' Public Community Water Systems (WSID # 5641 & 5002)

Water System Name: Bristol Water Department

WSID #: VT0005002

No comments were received.