



## State of Vermont

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### **AGENCY OF NATURAL RESOURCES WASTEWATER SYSTEM AND POTABLE WATER SUPPLY PERMIT**

#### **LAWS/REGULATIONS INVOLVED:**

10 V.S.A., Chapter 64, Potable Water Supply and Wastewater System and Environmental Protection Rules;  
Chapter 1, Wastewater System and Potable Water Supply Rules:  
    Subchapter 4, Water Supply and Wastewater Permits  
    Subchapter 5, Technical Standards for Wastewater Systems and Potable Water Supplies  
Chapter 21, Water Supply

**CASE No:** WW-7-1870

PIN No. SJ06-0101

**APPLICANT:** Russell W. & Penelope Adams

**ADDRESS** 1956 Five Mile Square Road  
Island Pond, VT 05846

This permit affects property referenced in deeds recorded in Book 57 Page(s) 2-3 of the Brighton, Vermont land records.

This project, consisting of 2 lot subdivision: Lot #1 consists of 31 acres presently developed with an existing 3-bedroom single family residence served by an existing on-site water supply and an existing on-site wastewater disposal system. Lot #2 consists of 7 acres to be developed with a 3-bedroom single family residence to be served by an on-site water supply and a partially off-site at-grade wastewater disposal system. This project is located on Five Mile Square Road, Brighton, Vermont, is hereby approved under the requirements of the regulations named above, subject to the following conditions:

#### **1. GENERAL CONDITIONS**

1.1. The project must be completed as described on the plans and/or documents prepared by Glenn A. Harter, listed as follows:

    "Site Plan" dated May 2006  
    "Site Plan Detail Lot Two" dated May 2006  
    "Site Plan Detail Lot One" dated May 2006  
    "Detail Sheet 1" dated May 2006  
    "Detail Sheet 2" dated May 2006  
    "Detail Sheet 3" dated May 2006

and which have been stamped "APPROVED" by the Wastewater Management Division. No alteration of these plans and/or documents shall be allowed except where written application has been made to the Agency of Natural Resources and approval obtained.

1.2. A copy of the approved plans and the Wastewater System and Potable Water Supply Permit shall remain on the project during all phases of construction and, upon request, shall be made available for inspection by State or Local personnel.

1.3. Each prospective purchaser of any portion of the project shall be shown a copy of the approved plot plan, the licensed designer site report and the Wastewater System and Potable Water Supply Permit prior to conveyance of any portion of the project.

1.4. Lot # 2 has been reviewed and is approved for the construction of one 3-bedroom single-family residence. Construction of other type dwellings, including public buildings, duplexes and condominium units, is not allowed without prior review and approval by the Agency, and such approval will not be granted unless the proposal conforms to the applicable laws and regulations.

**CONDITIONS CONTINUED...**

## **WASTEWATER SYSTEM AND POTABLE WATER SUPPLY PERMIT**

**WW-7-1870, Russell W. & Penelope Adams**

**Page 2 of 3, Conditions Continued**

1.5. Lot #1 has been reviewed and is approved with an existing 3-bedroom single-family residence. Construction of other type dwellings, including public buildings, duplexes and condominium units, is not allowed without prior review and approval by the Agency, and such approval will not be granted unless the proposal conforms to the applicable laws and regulations.

1.6. The conditions of this permit shall run with the land and will be binding upon and enforceable against the permittee and all assigns and successors in interest. The permittee shall be responsible for recording this permit and the "Notice of Permit Recording" in the Brighton Land Records within thirty (30) days of receipt of this permit and prior to the conveyance of any lot subject to the jurisdiction of this permit.

1.7. No alterations to the existing building (Lot #1), which would change or affect the water supply or wastewater disposal, shall be allowed without prior review and approval from the Wastewater Management Division.

1.8. By acceptance of this permit the permittee agrees to allow representatives of the State of Vermont access to the property covered by the permit, at reasonable times, for the purpose of ascertaining compliance with Vermont environmental and health statutes and regulations and with the permit.

1.9. This permit shall in no way relieve you of the obligations of Title 10, Chapter 48, Subchapter 4, for the protection of groundwater.

### **2. WATER CONDITIONS**

2.1. Lot #2 is approved for an on-site water supply from a drilled well provided that the well is located as shown on the approved plans and meets or exceeds the isolation distances required in the Environmental Protection Rules. No permit issued by the Secretary shall be valid for a substantially completed potable water supply until the Secretary receives a certification from a licensed designer, signed and dated, that states:

"I hereby certify that, in the exercise of my reasonable professional judgment, the installation-related information submitted is true and correct and the potable water supply was installed in accordance with the permitted design and all permit conditions, was inspected, was properly tested, and has successfully met those performance tests."

2.2. Lot #1 is approved with an existing on-site water supply system provided that the dug well/spring is located as shown on the plans. This water system shall be operated at all times in a manner that keeps the water supply free from contamination. Should the system fail, the permittee must engage an Agency of Natural Resources licensed designer to evaluate the cause of the failure and to submit information to this office for repair or replacement of the system.

2.3. In the event the lots wastewater disposal replacement area for either lot is utilized the existing dug well/spring serving Lot #1 shall be abandoned and a permit obtained to replace the well. This condition shall be included in the land deeds for these lots.

### **3. SEWAGE DISPOSAL CONDITIONS**

3.1. Lot #1 is approved with an existing on-site subsurface wastewater disposal system. Should this system fail, the permittee must engage an Agency of Natural Resources licensed designer to evaluate the cause of failure and to submit information to this office for the repair/replacement of the failing system. The existing wastewater disposal system is approved for a maximum design flow of 420 gallons of sewage per day.

**CONDITIONS CONTINUED...**

**WASTEWATER SYSTEM AND POTABLE WATER SUPPLY PERMIT**

**WW-7-1870, Russell W. & Penelope Adams**

**Page 3 of 3, Conditions Continued**

3.2. Lot #2 is approved for the off-site subsurface disposal of wastewater within an at-grade disposal system within the soil test pit and percolation testing area indicated on the approved plans for a maximum of 420 gallons of sewage per day. Should this system fail, the permittee must engage an Agency of Natural Resources licensed designer to evaluate the cause of failure and to submit information to this office for repair/replacement of the failing system. No permit issued by the Secretary shall be valid for a substantially completed wastewater system until the Secretary receives a certification from a licensed designer, signed and dated, that states:

"I hereby certify that, in the exercise of my reasonable professional judgment, the installation-related information submitted is true and correct and the wastewater system was installed in accordance with the permitted design and all permit conditions, was inspected, was properly tested, and has successfully met those performance tests."

3.3. The wastewater disposal system, which is to serve Lot #2 is partially located on Lot #1. The land deed, which establishes and transfers ownership of this project, shall contain a legal easement, which grants the purchaser, and any future owners, the right to enter upon the property for repair, maintenance and other such reasonable purposes as may arise regarding the wastewater disposal system.

Dated at St. Johnsbury, Vermont this 23<sup>rd</sup> day of June 2006

Jeffrey Wennberg, Commissioner  
Department of Environmental Conservation

By Roland G. Grenier, Jr.  
Roland G. Grenier, Jr., P.E., Regional Engineer *rsg*

C Glenn A. Harter  
Brighton Planning Commission



State of Vermont  
Department of Environmental Conservation

AGENCY OF NATURAL RESOURCES

**AGENCY OF NATURAL RESOURCES**  
**WASTEWATER SYSTEM AND POTABLE WATER SUPPLY PERMIT**

**LAWS/REGULATIONS INVOLVED:**

10 V.S.A., Chapter 64, Potable Water Supply and Wastewater System  
and Environmental Protection Rules;  
Chapter 1, Wastewater System and Potable Water Supply Rules:  
    Subchapter 4, Water Supply and Wastewater Permits  
    Subchapter 5, Technical Standards for Wastewater Systems  
        and Potable Water Supplies  
Chapter 21, Water Supply

**CASE No:**       **WW-7-1870-1**

PIN No. SJ06-0101

**APPLICANT:** Russell W. & Penelope Adams

**ADDRESS**     1956 Five Mile Square Road  
                  Island Pond, VT 05846

This permit affects property referenced in deeds recorded in Book 41 Page(s) 524-525 of the Brighton, Vermont land records.

This project, consisting of amendment to WW-7-1870 to correct the book and page of a previously approved 2 lot subdivision. This project is located on Five Mile Square Road, Brighton, Vermont, is hereby approved under the requirements of the regulations named above, subject to the following conditions:

**1. GENERAL CONDITIONS**

1.1. The project must be completed as described on the plans and/or documents prepared by Glenn A. Harter, listed as follows:

    "Site Plan" dated May 2006  
    "Site Plan Detail Lot Two" dated May 2006  
    "Site Plan Detail Lot One" dated May 2006  
    "Detail Sheet 1" dated May 2006  
    "Detail Sheet 2" dated May 2006  
    "Detail Sheet 3" dated May 2006

and which have been stamped "APPROVED" by the Wastewater Management Division. No alteration of these plans and/or documents shall be allowed except where written application has been made to the Agency of Natural Resources and approval obtained.

1.2. A copy of the approved plans and the and Wastewater System and Potable Water Supply Permit shall remain on the project during all phases of construction and, upon request, shall be made available for inspection by State or Local personnel.

1.3. Each prospective purchaser of any portion of the project shall be shown a copy of the approved plot plan, the licensed designer site report and the Wastewater System and Potable Water Supply Permit prior to conveyance of any portion of the project.

1.4. The conditions of this permit shall run with the land and will be binding upon and enforceable against the permittee and all assigns and successors in interest. The permittee shall be responsible for recording this permit and the "Notice of Permit Recording" in the Brighton Land Records within thirty (30) days of receipt of this permit and prior to the conveyance of any lot subject to the jurisdiction of this permit.

**CONDITIONS CONTINUED...**





**WASTEWATER SYSTEM AND POTABLE WATER SUPPLY PERMIT**

**WW-7-1870-1, Russell W. & Penelope Adams**

**Page 2 of 2, Conditions Continued**

1.7. No alterations to the existing building (Lot #1), which would change or affect the water supply or wastewater disposal, shall be allowed without prior review and approval from the Wastewater Management Division.

1.8. By acceptance of this permit the permittee agrees to allow representatives of the State of Vermont access to the property covered by the permit, at reasonable times, for the purpose of ascertaining compliance with Vermont environmental and health statutes and regulations and with the permit.

1.9. This permit shall in no way relieve you of the obligations of Title 10, Chapter 48, Subchapter 4, for the protection of groundwater.

1.10. All general conditions set forth in Permit number WW-7-1870, dated June 23, 2006, shall remain in effect except as amended or modified herein.

**2. WATER CONDITIONS**

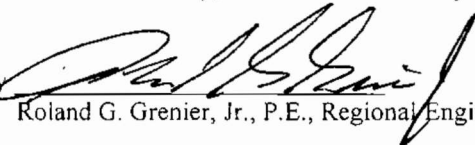
2.1. All water conditions set forth in Permit number WW-7-1870, dated June 23, 2006, shall remain in effect except as amended or modified herein.

**3. SEWAGE DISPOSAL CONDITIONS**

3.1. All sewage conditions set forth in Permit number WW-7-1870, dated June 23, 2006, shall remain in effect except as amended or modified herein.

Laura Q. Pelosi, Commissioner  
Department of Environmental Conservation

Dated at St. Johnsbury, Vermont this 23rd day of October 2008

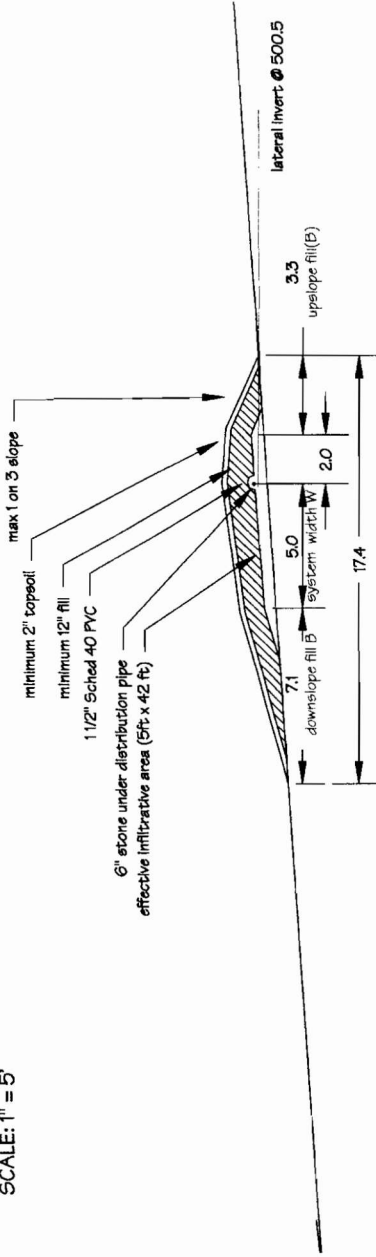
By   
Roland G. Grenier, Jr., P.E., Regional Engineer

C Dan Keenan  
Brighton Planning Commission

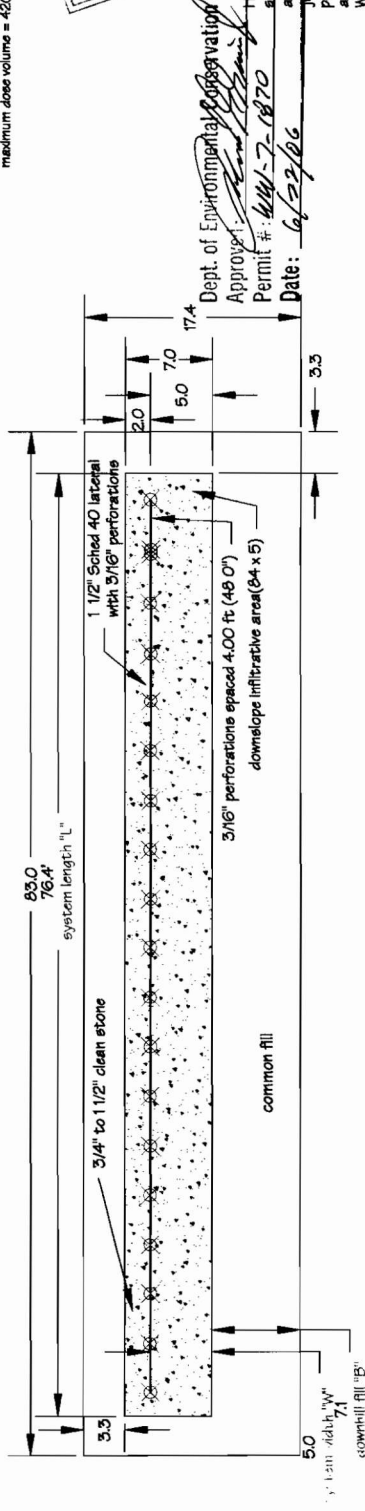
**APPEALS**

Any person aggrieved by this permit may appeal to the Environmental Court within 30 days of the date of issuance of this permit in accordance with 10 V.S.A. Chapter 220 and the Vermont Rules of Environmental Court Proceedings.

# SECTION VIEW PROPOSED AT GRADE WASTEWATER DISPOSAL SYSTEM USING SEPTIC EFFLUENT SCALE: 1" = 5'



# PLAN VIEW PROPOSED AT GRADE WASTEWATER DISPOSAL SYSTEM USING SEPTIC EFFLUENT SCALE: 1" = 10'



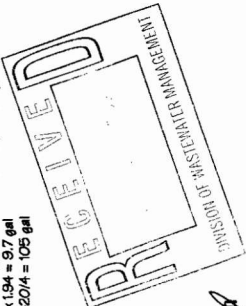
## AT-GRADE CONSTRUCTION NOTES:

- 1) The surface water diversion walls (mandatory for slopes with slopes of more than 3 percent) shall be installed prior to constructing the at-grade system to keep surface water runoff away from the system while it is under construction.
- 2) Construction of the at-grade system and/or filling shall not take place when the soil moisture is high in the system area. If the soil at 9 inches below grade can be rolled into the shape of a wire, the soil moisture content is too high for construction to begin.
- 3) To prevent compaction, construction equipment shall not be moved across and downslope of the at-grade system area before or after tilling.
- 4) Vegetation shall be cut close to the ground and removed from this area to be tilled. Tree stumps shall be cut flush with the ground and the roots left in place. On wooded sites, the forest litter shall be raised off if more than an inch thick. The at-grade system area shall be tilled, and the soil shall be rolled into the shape of a wire. The soil shall be rolled into the shape of a wire. The soil shall be rolled into the shape of a wire.
- 5) The system may be installed before tilling or after tilling when the foreman enters the system at the upslope side of the system. When the foreman enters the system at the upslope side, the foreman should be installed before tilling. If practical, forams should connect to the distribution pipe from the upslope side of the system. In other situations, the foreman shall be installed by working from the upslope edge of the system.
- 6) Upon completion of the tilling and before placing the stone aggregate, a designer shall inspect the site preparations.
- 7) Construction should begin immediately after the tilling by placing the stone aggregate. The pressure distribution pipe shall be laid level on top of the stone and caps installed at the ends of the pipe. Upon completion of the distribution piping, the designer shall test the system with clean water. The test shall show that a minimum pressure of 2.5 feet of head is present at the ends of the pipe and that the distribution requirements in 601-510 (of the VT ANR Environmental Protection Rules Chapter 1 Wastewater System and Potable Water Supply Rules, 1/1/06) are met. After connecting the distribution pipe to the foreman, the distribution pipe shall be covered with at least 2 inches of clean stone aggregate. The stone aggregate shall be covered completely with filter fabric.
- 8) The filter fabric shall be covered with a minimum of 12 inches of soil but not more than 18 inches, with the upper 2 to 4 inches of soil being topsoil and the remainder of the fill being of a fine sandy loam to a medium sand texture. The soil cover shall be placed at a maximum slope of 1:3. A vegetated cover free of large brush and trees shall be maintained over the system.

## SYSTEM CALCULATIONS

system application rate = 420 gal/day  
design percolation rate = 4.8 min/in  
wastewater application rate for at-grade system with septic effluent =  $(0.8 \times (3/4 \times 4.8)) = 1.1$  gal/sq.ft.  
sizing requirement =  $420/1.1 = 381.8$  sq.ft.  
effective infiltration area =  $5 \times (76.4) = 382$  sq.ft.  
pressure distribution line = 1.5" Sched 40 PVC

lateral size =  $(1.5) \times 80$  ft. (and head)  
lateral dia = 1.5" Sched 40 PVC  
perforations =  $(21) \times 3/16$  in. lateral - include distal end caps  
perforation spacing = 4.0' or 48"  
perforation discharge rate = 0.69 gal/min @ 2.5 ft of line pressure  
network discharge rate =  $(1 \text{ lateral}) \times (21 \times 0.69 \text{ gpm/lateral}) = 14.8$  gal/min  
network (lateral) volume =  $(24 \text{ gal/ft} \times 80 \text{ ft/lateral}) = 1.94$  gal  
minimum dose volume =  $5 \times 1.94 = 9.7$  gal  
maximum dose volume =  $420/4 = 105$  gal



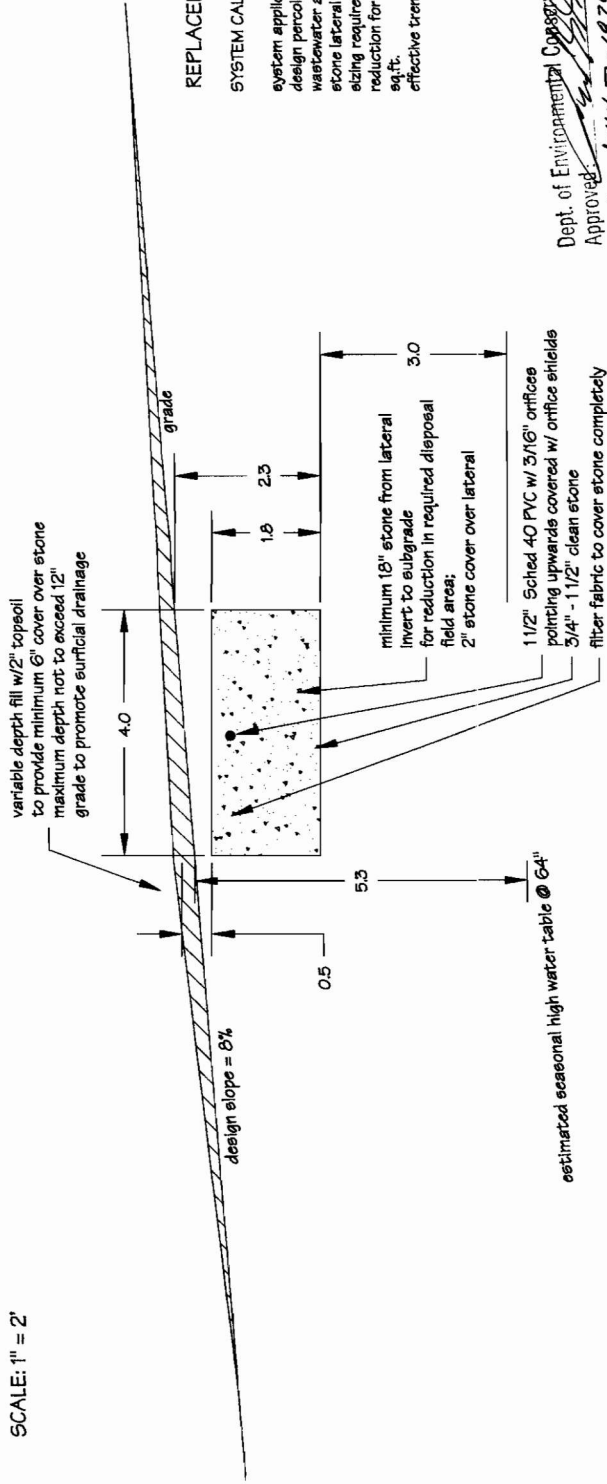
thereby certify that the design-related information submitted with this application is true and correct, and that, in the exercise of my reasonable professional judgment, the design included in this application for a permit complies with the Vermont Wastewater System and Potable Water Supply Rules and the Vermont Wastewater Supply Rules.

Wastewater Supply Rules, 5/24/06

DETAIL SHEET 1	
for	Brighton, VT
by	P. & R. Adams
Site Tech A&B	Glenn A. Harter
Drawn: GH	179 Pease Hill Rd. Barton, VT
Surveyed: GH, GB	Design: GH
SHEET 4 of 6	Date: May '06
MAP NUMBER 05-53	

2005-1870

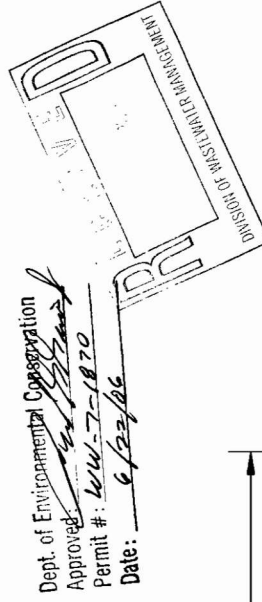
SECTION VIEW PROPOSED ABSORPTION TRENCH  
SCALE: 1" = 2'



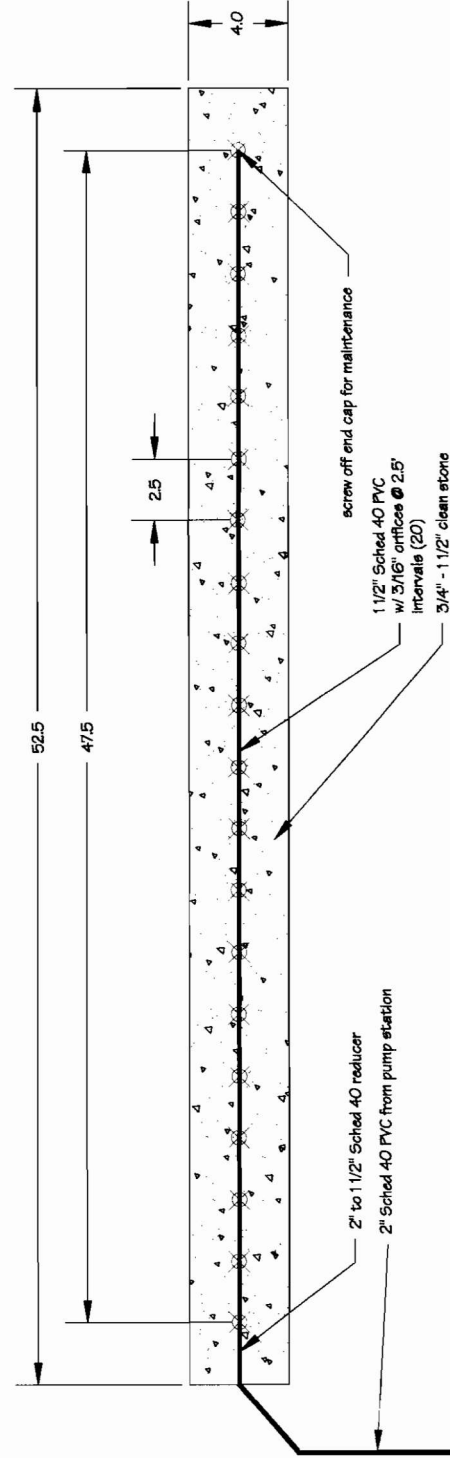
REPLACEMENT SYSTEMS LOT ONE AND TWO

SYSTEM CALCULATIONS

system application rate = 420 gal/day  
design percolation rate = 4 min/in (See percolation rates table)  
wastewater application rate for absorption trench (minimum 12" stone lateral invert to subgrade) =  $(3/4) \times 15 = 15$  gal/eq. ft.  
existing requirement =  $420/15 = 280$  eq. ft.  
reduction for 18" stone with 48" trench =  $(0.75) \times 280 = 210$  eq. ft.  
effective trench area =  $(4) \times (52.5) = 210$  eq. ft.



PLAN VIEW PROPOSED ABSORPTION TRENCH  
SCALE: 1" = 5'



I hereby certify that the design-related information submitted with this application is true and correct, and that, in the exercise of my reasonable professional judgment, the design included in this application for a permit complies with the Vermont Wastewater System and Potable Water Supply Rules and the Vermont Water Supply Rules.

W. R. Adams  
5/24/06

DETAIL SHEET 2

for  
P. & R. Adams

by  
Glenn A. Harter

Site Tech A&B  
Barton, VT

Drawn: GH  
Design: GH

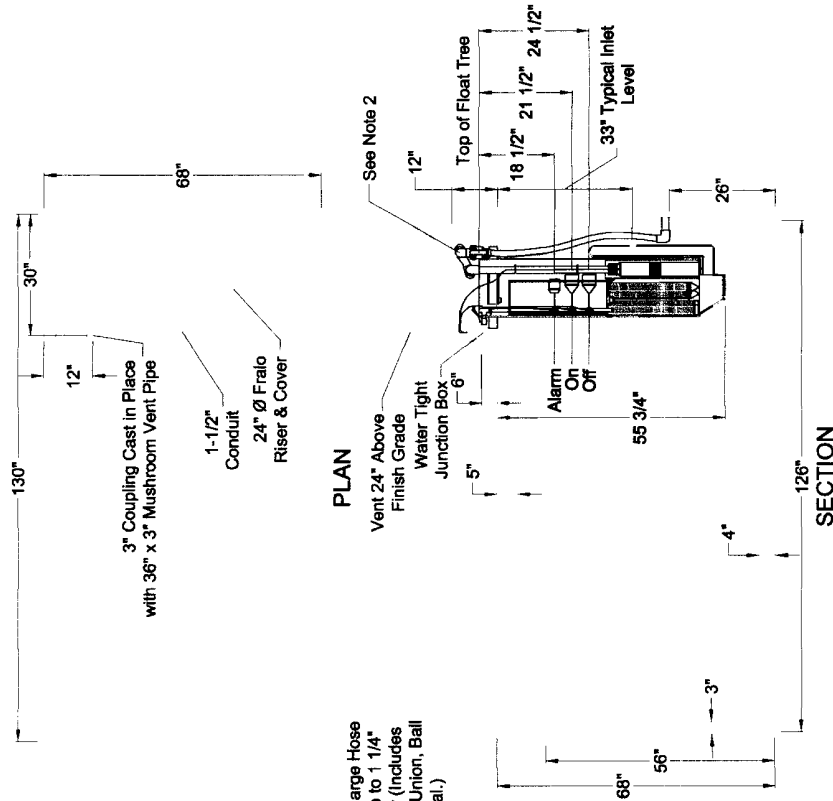
Surveyed: G.H., G.B.  
Date: May '06

SHEET 5 of 6

MAP NUMBER 05-53

330-77870

PROPOSED SINGLE COMPARTMENT SEPTIC TANK / PUMP STATION AS MANUFACTURED BY S.T. GRISWOLD



Note 2:  
Zoeller 1 1/4" Discharge Hose Assembly from pipe to 1 1/4" Snub Outside Riser (Includes Flexible PVC Pipe, Union, Ball Valve, and Pipe Seal.)

LATERAL INVERTS

496.5 House  
496.2 S.T.E.P. Inlet  
493.7 S.T.E.P. outlet  
496.0 Pump on  
495.7 Pump off  
500.5 Lateral Invert at grade system

PUMP SIZING

Friction losses  
Delivery losses = .9  
Force main length = 25  
Network losses = 3.5 ft  
Total friction losses = 4.2  
Static head = 4.8 ft  
Total pumping head = 9.0 ft  
Minimum network discharge rate = 14.8 gpm  
Use Oremco PA 2005H pump

Dept. of Environmental Conservation  
Approved: *[Signature]*  
Permit #: 44-7-1870  
Date: 6/22/06

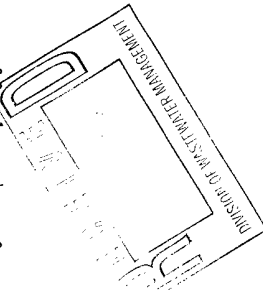
**PRESSURE TEST**  
After the pipe has been laid, all newly laid pipe or any valved section thereof shall be subjected to a hydraulic pressure of at least 100 psi the highest working pressure in the section.

- Restrictions: Test pressures shall:
- 1) Not be less than 50 psi at the highest point
  - 2) Not exceed pipe design pressures
  - 3) Be of at least 2 hr. duration
  - 4) Not vary by more than  $\pm 1.5$  psi
  - 5) Not exceed twice the rated pressure of the valves

Precaution: Each valved section of pipe shall be filled with water slowly and the specified test pressure shall be applied by means of a pump connected to pipe. Air Removal: air shall be completely expelled from the pipe and valves before applying test pressure.  
Examination: During test, all pipe, fitting, valves, joints shall be carefully examined. Damaged or defective pipe fitting or valves found following the pressure test shall be repaired or replaced and the test shall be conducted again.

LEAKAGE TEST

A leakage test shall be conducted concurrently with the pressure test.  
Definition: Leakage is the quantity of water that must be supplied into the newly laid pipe, or any valved section, to maintain pressure within 3 psi of the specified test pressure after the air in the pipeline has been removed and the pipe filled with water.  
Allowable leakage: Leakage must not be greater than that determined by the formula:  
 $L = (NDIP) / 7400$   
where L is the allowable leakage in gals/hour N is the number of joints in the length of the pipeline tested; D is the nominal diameter of the pipe in inches; and P is the average test pressure during the leakage test in pounds per square inch.

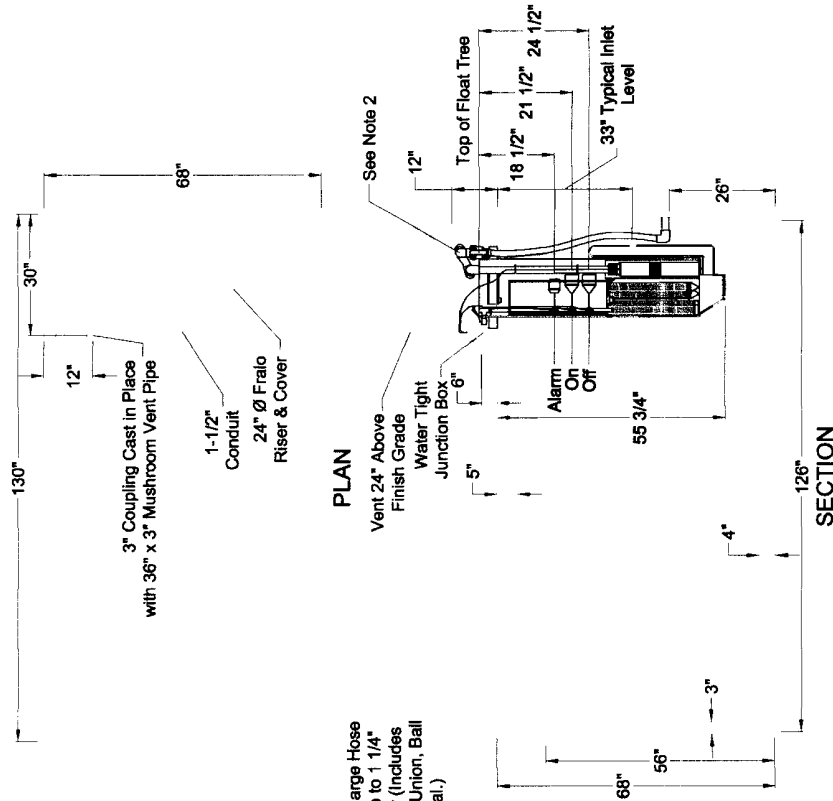


I hereby certify that the design-related information submitted with this application is true and correct, and that, in the exercise of my reasonable professional judgment, the design included in this application for a permit complies with the Vermont Wastewater System and Potable Water Supply Rules and the Vermont Water Supply Rules.  
*[Signature]* 5/24/06

DETAIL SHEET 3 for	
P. & R. Adams	by Brighton, VT
Glenn A. Harter	179 Peene Hill Rd.
Site Tech A&B	Barton, VT
Drawn: GH	Design: GH
Surveyed: G.H. G.B.	Date: May '06
SHEET 6 of 6	MAP NUMBER 05-53

220-7-1870

PROPOSED SINGLE COMPARTMENT SEPTIC TANK / PUMP STATION AS MANUFACTURED BY S.T. GRISWOLD



Note 2:  
Zoeller 1 1/4" Discharge Hose  
Assembly from pipe to 1 1/4"  
Snub Outside Riser (Includes  
Flexible PVC Pipe, Union, Ball  
Valve, and Pipe Seal.)

LATERAL INVERTS

496.5 House  
496.2 S.T.E.P. Inlet  
493.7 S.T.E.P. outlet  
496.0 Pump on  
495.7 Pump off  
500.5 Lateral Invert at grade system

PUMP SIZING

Friction losses = .9  
Delivery losses = .9  
Force main length = 25  
Network losses = 3.5 ft  
Total friction losses = 4.2  
Static head = 4.8 ft  
Total pumping head = 9.0 ft  
Minimum network discharge rate = 14.8 gpm  
Use Oremco PA 200511 pump

Dept. of Environmental Conservation  
Approved: *[Signature]*  
Permit #: 44-7-1870  
Date: 6/22/06

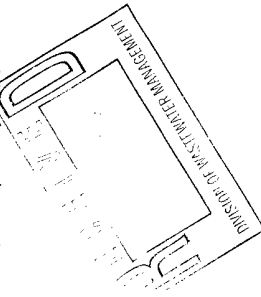
**PRESSURE TEST**  
After the pipe has been laid, all newly laid pipe or any valved section thereof shall be subjected to a hydraulic pressure of at least 100 psi the highest working pressure in the section.

- Restrictions: Test pressures shall:
- 1) Not be less than 50 psi at the highest point
  - 2) Not exceed pipe design pressures
  - 3) Be of at least 2 hr. duration
  - 4) Not vary by more than  $\pm 1.5$  psi
  - 5) Not exceed twice the rated pressure of the valves

Precaution: Each valved section of pipe shall be filled with water slowly and the specified test pressure shall be applied by means of a pump connected to pipe. Air Removal: air shall be completely expelled from the pipe and valves before applying test pressure.  
Examination: During test, all pipe, fitting, valves, joints shall be carefully examined. Damaged or defective pipe fitting or valves found following the pressure test: shall be repaired or replaced and the test shall be conducted again.

**LEAKAGE TEST**

A leakage test shall be conducted concurrently with the pressure test.  
Definition: Leakage is the quantity of water that must be supplied into the newly laid pipe, or any valved section, to maintain pressure within 3 psi of the specified test pressure after the air in the pipeline has been removed and the pipe filled with water.  
Allowable leakage: Leakage must not be greater than that determined by the formula:  
 $L = (NDIP) / 7400$   
where L is the allowable leakage in gals/hour N is the number of joints in the length of the pipeline tested; D is the nominal diameter of the pipe in inches; and P is the average test pressure during the leakage test in pounds per square inch.



I hereby certify that the design-related information submitted with this application is true and correct, and that, in the exercise of my reasonable professional judgment, the design included in this application for a permit complies with the Vermont Wastewater System and Potable Water Supply Rules and the Vermont Water Supply Rules.

*[Signature]* 5/24/06

DETAIL SHEET 3 for	
P. & R. Adams	by Brighton, VT
Glenn A. Harter	179 Peene Hill Rd.
Site Tech A&B	Barton, VT
Drawn: GH	Design: GH
Surveyed: G.H. G.B.	Date: May '06
SHEET 6 of 6	MAP NUMBER 05-53

200-7-1870

ID # WW-7-1870

PROJECT DOCKET SHEET

PIN # SJ06-0101

DATE

REVIEW ACTION

5/26/06

INFO RECEIVED

5/26/06

Logan

6/20/06

~~Draft P~~ Site visit OK

6/22

Review - Called Glenn to discuss replacement of lot #1 shallow well in the event the replacement new deep area is used. He advised owner will abandon the shallow well in that event. I advised I will condition P.

6/22/06

Draft P

<http://www.anr.state.vt.us/dec/ead/pa/index.htm> / <http://www.state.vt.us/envboard/>

**COPY**

THIS IS NOT A PERMIT

PIN SJ06 - 0101

**\*\*NOTE: NUMBERS IN PARENTHESES (#) REFER TO PERMIT INFORMATION SHEETS IN THE VERMONT PERMIT HANDBOOK**  
[http://www.anr.state.vt.us/dec/permit\\_hb/index.htm](http://www.anr.state.vt.us/dec/permit_hb/index.htm)



## AFTER FINAL ACTION SHEET

Project ID: WU-7-1870

☐ SAR NEEDED

## TREATMENT PLANT

TOWN APPROVAL DATE

**Lots Approved** 2

Number of Water Systems 2

Water Volume

## Number of Wastewater Systems

2

## Wastewater Volume

**Mounds Approved:**

PRIMARY Waste Water Systems		REPLACEMENT Wastewater Systems		Water System Type(s)	
Number	Total GPD	Number	Total GPD	Number	Total GPD
1	420				
At Grade				Permitted Bottled Water	
Continuous Area				Public Community	
Indirect Discharge				Transient Non-Community (TNC)	
In Ground	420	2	840	TNC Connected to Municipality or Public	
Innovative				Non-Transient Non-Community	
Mound				Variance	
Municipal				NTNC Connected to Mun or PC	
No Change				Individual Commercial	
None				ICM Connect to Mun or PC	
Filtrate System At Grade				Individual Private IM	
Filtrate System In Ground				Individual Private IP	2
Filtrate System Mound				Shared Private	
Holding Tank				Shared/Private To Municipality or PC	
Variance				No Water System	
Alternative Toilet				No Change	
Enhanced Prescriptive					
Performance Based					
Water System Type				Water System Type	

**Agency of Natural Resources  
Department of Environmental Conservation  
Wastewater Management Division**

**WASTEWATER SYSTEM & POTABLE WATER SUPPLY  
PERMIT APPLICATION**

(Under the authority of 10 V.S.A. Chapter 64, the Environmental Protection Rules, Chapter 1, Wastewater System & Potable Water Supply Rules, and Chapter 21, Water Supply Rules, Appendix A. Part 11 – Small Scale Water Systems)

**Please print or type.**

**Note:** There are line by line instructions available to help you complete this application form. In many cases a licensed designer will be required for your project, who will be able to help complete this application form.

Electronic versions of the form are available on the Wastewater Management Division website at <http://www.anr.state.vt.us/dec/ww/EngServ.htm>. The organization and/or content of this form may not be altered, however the form may be expanded to allow additional information to be entered. Changes in the organization and/or content of the form may result in an invalid application or permit.

For office use only  
Application #  
WW-1-1870

PIN SD6-0101

Complete application  
Received on

Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

Fee \$ \_\_\_\_\_

Check # \_\_\_\_\_

Fee Code \_\_\_\_\_

Program Code \_\_\_\_\_

**1. Landowner(s) name** (as shown on property deed) *If there are multiple landowners, please provide a separate sheet listing each landowner, their mailing address, signature, and date.*  
Russell W. Adams and Penelope Adams

**2. Mailing address for landowner(s).**

**Street:** 1956 Five Mile Square Road

**Town, State, Zip Code:** Island Pond, VT 05846

**3. Telephone number(s).**

(802) 723-4790

**4. Co-applicant name.**

**5. Mailing address for co-applicant.**

**6. Telephone number.**

**7. Name of licensed designer.**

Glenn A. Harter

**8. Mailing address for licensed designer.**

179 Peene Hill Barton, VT 05822

**9. Telephone number.**

802-525-3873

**10. Does this project involve a failed water supply or wastewater disposal system?**

☐ Yes ☒ No

**11. Project location.** Please include a location map.

Street or Road. (911 Street or Road Address if available)  
see project locus

**12. City or Town.**

Brighton

**13. Project name** (if applicable)

**14. If an existing lot,** what date was the lot created?  
1950

**15. Total acreage** of property  
38 +

**16. Number of lots created,**  
If subdividing property.  
Include any lots subject  
to deferral restrictions 2

**18. Deed reference**  
Book (s) 57

Pages (s) 2-3

**17. List each lot number** and the acreage of the lot. If any lot is developed with a structure, describe the use and when it was constructed. All of the property must be described, including any remaining or retained land and any undeveloped land which will be subject to Notice of Permit Requirements /deferral restrictions.

Lot #	Acreage	Bedrooms / Use	When constructed	Undeveloped
1	31 +/-	SFR	1950	
2	7 +/-	SFR		x

**19. Prior permits or exemptions** issued by the Agency of Natural Resources for subdivision of land or construction of public buildings. The permits or exemptions would have prefixes of EC, PB, WW, DE, HE, HB, LUP, MH, TT, or CC followed by the number of the project.

Any Act 250 Permits (LUP) on this tract of land? ☐ Yes # ☒ No

**20. Detailed project description.**

Proposed subdivision of existing 38 + acre lot off Five Mile Square Road in Brighton, VT; Lot One, 31 +/- acres to be retained with existing single family residence, wastewater disposal system and potable shallow well water supply; Lot Two, 7 +/- acres with proposed single family residence, at grade wastewater disposal system and drilled well water supply. Both Lots are impacted by wetlands and transitional wetlands bordering the Clyde River. A 50' buffer zone is shown for Lot Two. No construction or disturbance will take place within this zone. In addition, both Lots One and Two require replacement areas within the Lot One water supply well shield.

**21. Type of wastewater system design.**

- 1) Prescriptive: ☒ 2) Enhanced prescriptive: ☐ 3) Performance-based: ☐  
4) Municipal connection: ☐ 5) Private off-site ☐ Name of landowner:

**22. Is the wastewater disposal system located in a municipality that does not have both a confirmed planning process and valid zoning bylaws?** ☐ Yes ☒ No

**23. Water Supply.** (Also see #28 and #29 below.) GPD = gallons per day of design flow

	Lot #1	Lot #2	Other lots or uses	Basis for design flow
Existing flows	420	0		SFR
Increase	0	420		SFR
Total	420	420		

Type: Individual well: ☒ Shared well: ☐ TNC: ☐\* NTNC: ☐\* Community: ☐\*  
(\*Systems serving 24+ people more than 60 days / year)

Owner of system if not applicant

(Include letter from the system owner authorizing any increase in design flow )

Is the water source located within a 100 year floodplain? ☐ Yes ☒ No

**24. Wastewater Disposal System.** (Also see #21 & #22 above and #29 & #30 below.)

	Lot #1	Lot #2	Other lots or uses	Basis for design flow
Existing flows	420	0		SFR
Increase	0	420		SFR
Total	420	420		

If using a municipal wastewater treatment system, owner of system  
(Include letter from the system owner authorizing any increase in design flow)

If using an Indirect Discharge System, ID# and owner

Are floor drains proposed? ☒ No ☐ Yes If "Yes," where will they discharge?

GPM of infiltration for sewers over 500' GPM

**25. Global Positioning System (GPS) Coordinates.** (WGS 84 or NAD 83 Criteria) with accuracy of +/- 50' for water systems and wastewater systems serving the project.

Existing Water Sources (GPS Coordinates) N 44° 48' 16" W 71° 54' 46" Accuracy in Ft 20

Proposed Water Sources (GPS Coordinates) N 44° 48' 20" W 71° 54' 44" Accuracy in Ft 19

Proposed replacement area N 44° 48' 17" W 71° 54' 46" Acc in ft 20

Existing Wastewater Systems (GPS Coordinates) N 44° 48' 16" W 71° 54' 48" Accuracy in Ft 20

Proposed Wastewater Systems (GPS Coordinates) N 44° 48' 19" W 71° 54' 44" Accuracy in Ft 19

Proposed replacement area N 44° 48' 15" W 71° 54' 45" Acc in ft 20

☐ WGS 84 ☐ NAD 83

**26. List any easements required** and enclose a copy of the signed easement agreements.  
see attached for Proposed Easement Language

Water Quality Division WEB SITE: <http://www.anr.state.vt.us/dec/waterq/wqhome.htm>

**27(A). Will there be any construction or land disturbance on the property in or near a wetland, a wetland buffer, or in or near a wet area on the property?**

☒ Yes ☐ No Wetlands Section - Telephone (802) 241-3770.

**27(B). Will more than one acre be disturbed during the entire course of construction, including all lots and phases?**

☐ Yes ☒ No Construction Stormwater Permits – Telephone (802) 241-4320.

**27(C). Will there be any stream crossings by roads, utilities, or other construction?**

☐ Yes ☒ No River Corridor Management Section – Central & NW VT (802) 879-5631;  
SO.VT. (802) 786-5906; NE VT (802) 751-0129.

**28. Is the proposed well located within 1 mile of a hazardous waste site as designated by the Waste Management Division?**

☐ Yes ☒ No Telephone (802) 241-3888.

**29. Is any portion of the proposed wastewater disposal system located in or near a water Source Protection Area as designated by the Water Supply Division?**

☐ Yes ☒ No Telephone (802) 241-3400.

**Is any portion of the proposed water supply located in or near a water Source Protection Area as designated by the Water Supply Division?**

☐ Yes ☒ No Telephone (802) 241-3400.



**30. Is the lot or project located in a flood prone area?**☒ Yes ☐ No**31. Act 250:** Has the applicant/landowner subdivided **any other lots** of any size within a five mile radius of this subdivision, or within the environmental district within the last five years?☐ Yes ☒ No. If yes: # of lots in town/sIs there any prior Act 250 jurisdiction on the tract of land? ☐ Yes; Permit # ☒ No**32. Application Fee**

\$420.00

Please refer to attached fee schedule for calculations or contact your regional office for assistance.

**33.** Has anyone from the regional office been to the site? ☐ Yes ☒ No*If so, please provide the name of the staff member and the date of the visit.***34. Signatures and Acknowledgements.**

In order to insure compliance with the requirements of the regulations administered by the Department of Environmental Conservation, Wastewater Management Division, it may be necessary to visit the property. As this would involve a Department employee entering private property, we request your approval to do so. If we do visit your property, do you have any special instructions?

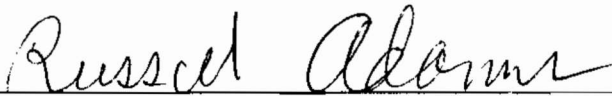
**"As landowner of the property for which I am requesting a permit from the Department of Environmental Conservation, I understand that by signing this application I am granting permission for the Department employees to enter the property, during normal working hours, to insure compliance of the property with the applicable rules of the Department.**

**I also understand that I am not allowed to commence any site work or construction on this project without written approval from the Department of Environmental Conservation.**

**I also certify that to the best of my knowledge and belief the information submitted above is true, accurate and complete."**

**Russell W. Adams****Penelope Adams**

Landowner(s) name. (printed)



5-24-06

Landowner(s) signature.

Date



5-24-06

*If there are several landowners, and there is not room to fit the information on this form, please attach an additional sheet with the names, mailing addresses, signatures, and dates.*

*If an attorney signs for the landowner, please submit a copy of the authorization document that grants the power of attorney specific to land transactions.*

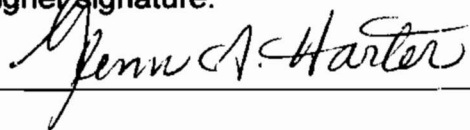
**35. Designer statement.**

**"I hereby certify that in the exercise of my reasonable professional judgment, the design-related information submitted with this application is true and correct, and the design included in this application for a permit complies with the Vermont Wastewater System and Potable Water Supply Rules and the Vermont Water Supply Rules."**

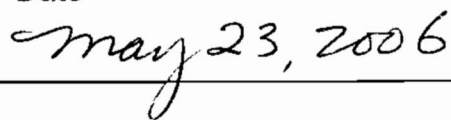
Designer name. (printed)

Glenn A. Harter

Designer signature.



Date





## State of Vermont

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AGENCY OF NATURAL RESOURCES  
Department of Environmental Conservation

Department of Fish and Wildlife  
Department of Forests, Parks, and Recreation  
Department of Environmental Conservation  
State Geologist  
RELAY SERVICES FOR THE HEARING IMPAIRED  
1-800-253-0191 TDD>Voice  
1-800-253-0195 Voice>TDD

June 23, 2006

Russell W. & Penelope Adams  
1956 Five Mile Square Road  
Island Pond, VT 05846

RE: WW-7-1870  
Town of Brighton

Enclosed are two copies of the above referenced permit. You must file this permit with your town clerk within 30 days of issuance.

Please take the permit stamped "DOCUMENTS FOR RECORDING", the notification postcard and the correct fee (\$7.00 per page) to your town clerk. Please ask the town clerk to return the notification card to this office to verify recording.

Thank you for your cooperation. If you have any questions, please contact me at the above address.

Sincerely,

A handwritten signature in cursive script, appearing to read "Sue Cross".

Sue Cross, Administrative Assistant A

ENCLOSURES

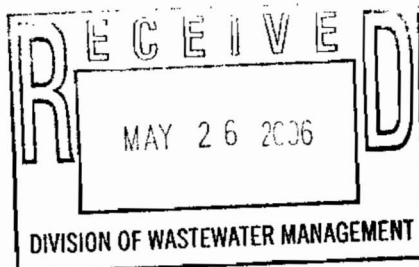




Glenn A. Harter

Vermont Certified Site Technician #293

Roland Grenier  
Regional Engineer  
Wastewater Management Division  
1229 Portland Street, Suite 201  
St. Johnsbury, VT 05819-2099



179 Peene Hill  
Barton, VT 05822  
phone (802) 525-3873  
fax (802) 525-3045  
email: vtsitetechn@gmail.com

May 24, 2006

**Re: Proposed subdivision of 38 + acre lot off Five Mile Square Road in Brighton, VT.**

Dear Guy,

**Project description:**


Proposed subdivision of existing 38 + acre lot off Five Mile Square Road in Brighton, VT; Lot One, 31 +/- acres to be retained with existing single family residence, wastewater disposal system and potable shallow well water supply; Lot Two, 7 +/- acres with proposed single family residence, at grade wastewater disposal system and drilled well water supply. Both Lots are impacted by wetlands and transitional wetlands bordering the Clyde River. A 50' buffer zone is shown for Lot Two. No construction or disturbance will take place within this zone. In addition, both Lots One and Two require replacement areas within the Lot One water supply well shield.

Please find enclosed the following:

1. Wastewater System and Potable Water Supply Permit Application and check for \$420.00
2. Project Locus
3. Orthophoto Plot Plan
4. Site Plan (Sheet 1 of 6) Scale: 1" = 100'  
Project description, GPS coordinates existing and proposed wastewater disposal systems and water supplies; proposed house site; existing house site.
5. Site Plan Detail 1 (Sheet 2 of 6) Scale 1" = 30'  
Lot Two proposed locations at grade wastewater disposal system, house site, drilled well, 50' buffer zone, and Lot Two construction and maintenance easement.
6. Site Plan Detail 2 (Sheet 3 of 6) Scale 1" = 30'  
Lot One location existing house site, wastewater system and shallow well; proposed location absorption trench replacement systems, proposed easement language.
7. Detail Sheet 1 (Sheet 4 of 6)  
Plan and section views proposed at grade wastewater disposal system using septic effluent, system calculations, construction notes.
8. Detail Sheet 2 (Sheet 5 of 6)  
Plan and section views proposed in ground absorption trench replacement area, sizing calculations.
9. Detail Sheet 3 (Sheet 6 of 6)  
Plan and section views proposed 1500 gallon concrete seamless step septic tank, pressure and leakage tests, pump sizing, inverts.

10. Water Supply
11. Soil Data
12. Pump Specifications (2 pages)

Sincerely,

  
Glenn A. Harter



## State of Vermont

AGENCY OF NATURAL RESOURCES  
Department of Environmental Conservation

Department of Fish and Wildlife  
Department of Forests, Parks, and Recreation  
Department of Environmental Conservation  
State Geologist  
RELAY SERVICES FOR THE HEARING IMPAIRED  
1-800-253-0191 TDD>Voice  
1-800-253-0195 Voice>TDD

May 26, 2006

Russell W. & Penelope Adams  
1956 Five Mile Square Road  
Island Pond, VT 05846

RE: WW-7-1870, Subdivision of 38 +/- acres into 2 lots: Lot #1 consists of 31 +/- acres to be retained with existing single family residence with wastewater disposal system and potable shallow well water supply. Lot #2 consist of 7 +/- acres with proposed single family residence, at grade wastewater disposal system and drilled well water supply, off Five Mile Square Road, in Brighton, VT.


Dear Applicant:

We received your completed application for the above referenced project on May 26, 2006, including a fee of \$420.00 paid by check #3238. Under the performance standards for this program, we have a maximum of 45 days of "in-house" time to review your application. If we require further information from you to make a decision, the time until we receive it is not included in the in-house performance standards.

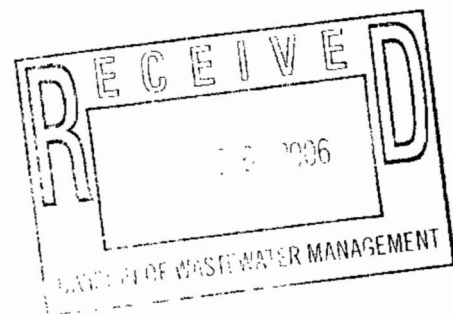
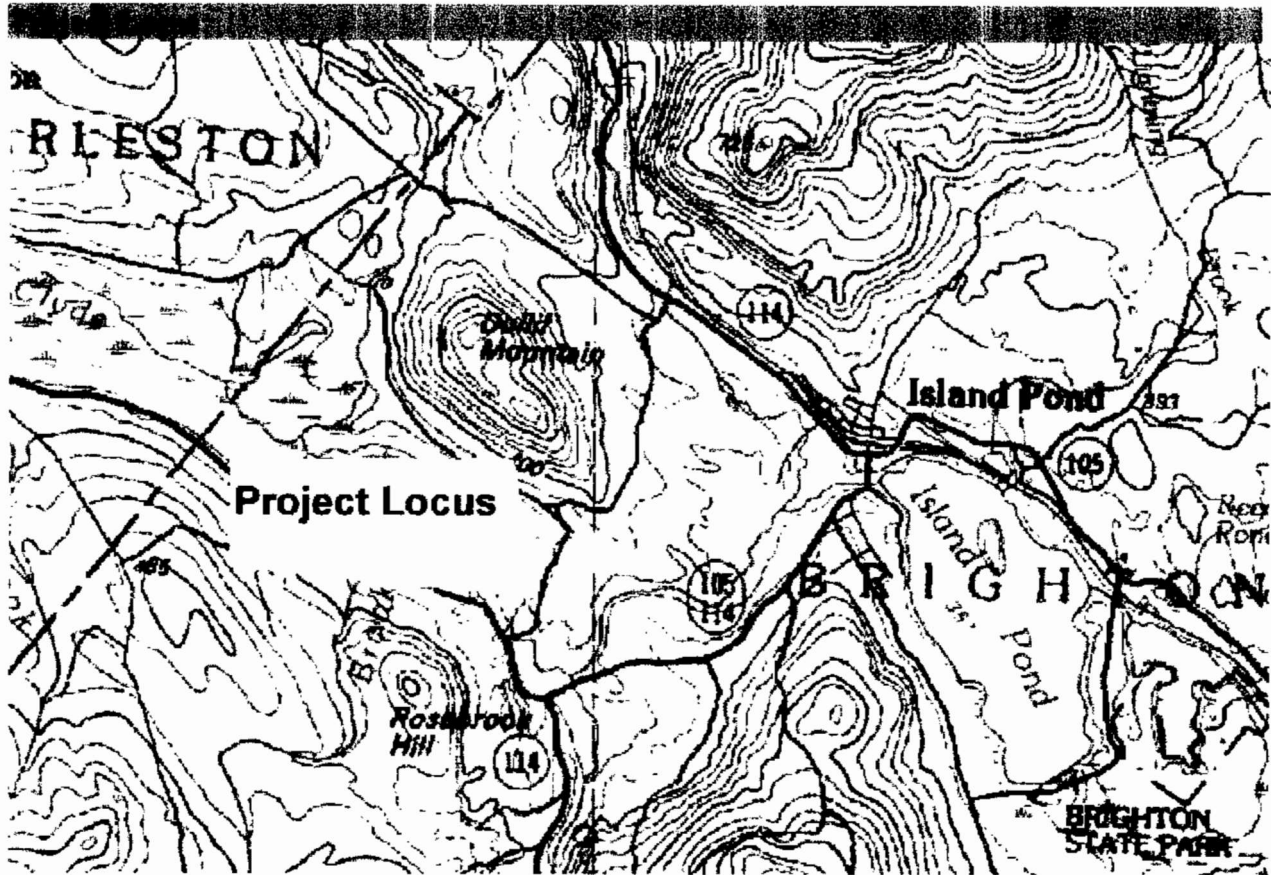
If you have any questions about the review process, or if you have not received a decision on your application within the 45 in-house days, please contact this office.

We have forwarded the information contained in your application to the Information Specialist for this region. A Project Review Sheet will be sent to you indicating other state agencies and departments you should contact regarding additional permits or approvals you may need under their programs. If you have not already done so, you should also check with town officials about any necessary town permits.

For the Division of Wastewater Management

  
Sue Cross  
Administrative Assistant

cc: Brighton Planning Commission  
Glenn A. Harter



**Water Supply Design Lot Two**

The water supply design is based on proposed individual drilled bedrock well for a single family residence (3 bedroom); as follows:

**Average Day Demand**

ADD = 420 gallons/day

**Maximum Day Demand**

MDD = 420gpd/720 min = 0.6gpm

**Instantaneous Peak Demand**

IPD = 5 gpm per VT Water Supply Rule 11.3.2(b)

**Source Capacity**

Long term yield to be determined by well driller per VT Water Supply Rule 11.6.0.1

**Pump Capacities**

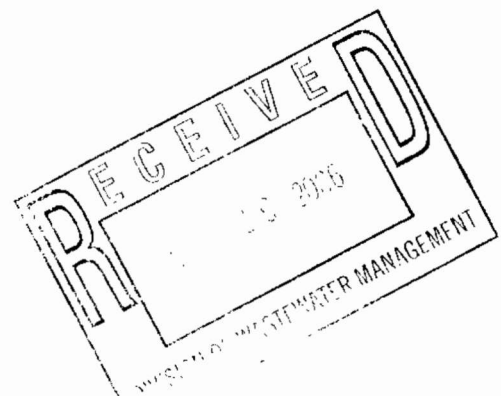
The pumping unit shall meet VT Water Supply Rule 11.8.1.3

**Operating Pressure Ranges**

Operating pressure shall meet minimum parameters of VT Water Supply 11.8.3.2.1

**Flood Plain**

Proposed individual water supply is not in a flood plain.



**Soil Analysis**

Soils on this site were generally loamy sands to medium sands deposited along the former banks of the Clyde River. TP2 and TP4 located in former logging landing evidenced some soil disturbance. Organic layer in these two pits was not logged.

**Soil Data**

<b>Test pit #1</b>	Elevation = 503.2	Seasonal high water table @ 24"
0-10"	Dark brown very fine loamy sand, friable, granular, many fine roots	
10-24"	Dark reddish brown fine loamy sand, friable	
24-51"	Olive brown loamy sand, 2" dark FeO <sub>2</sub> layer @ 24-26"	
<b>Test pit #2</b>	Elevation = 496.4	Seasonal high water table @ 9"
0-9"	Dark brown very fine sandy loam, friable, granular, many fine roots	
9-24"	Olive brown fine sandy loam, firm, FeO <sub>2</sub> mottles distinct @ 9"	
24-34"	Olive gray loamy sand, firm,	
<b>Test pit #3</b>	Elevation = 499.2	Seasonal high water table @ 52"
0-12"	Dark brown very fine sandy loam, friable, granular, many fine roots	
12-36"	Dark yellow brown fine loamy sand, friable	
36-52"	Olive brown loamy sand, loose, few random white spots, medium, leached sand	
52-80"	Olive brown loamy sand, firm, some FeO <sub>2</sub> stains	
<b>Test pit #4</b>	Elevation = 496.5	Seasonal high water table @ 16"
0-8"	Dark brown very fine sandy loam, friable, granular, many fine roots	
8-16"	Dark reddish brown loamy sand, friable; granular, some small stone	
16-48"	Olive brown loamy gravelly sand, friable, distinct FeO <sub>2</sub> stains, cobbles	
<b>Test pit #5</b>	Elevation = 498.1	Seasonal high water table @ 39"
0-10"	Dark brown very fine sandy loam, friable, granular, many fine roots	
10-38"	Dark yellowish brown fine loamy sand, friable	
38-65"	Olive brown loamy sand, firm, some FeO <sub>2</sub> stains @ 39-44"	
<b>Test pit #6</b>	Elevation = 510.8	Seasonal high water table @ none observed"
0-10"	Dark brown very fine sandy loam, friable, granular, many fine roots	
10-36"	Yellowish brown loamy sand, friable	
36-85"	Olive brown fine to medium sand, loose	
<b>Test pit #7</b>	Elevation = 509.9	Seasonal high water table @ 64"
0-10"	Dark brown very fine sandy loam, friable, granular, many fine roots	
10-36"	Dark yellowish brown loamy sand, friable	
36-64"	Olive brown loamy sand, loose	
64-80"	Olive brown fine sandy loam, firm, FeO <sub>2</sub> mottles faint	

**Percolation test results**

	Test depth (from grade)	min/in	Bore hole depth
B1	32"	4.0	40"
B2	18	4.8	25
B3	18	5.3	26



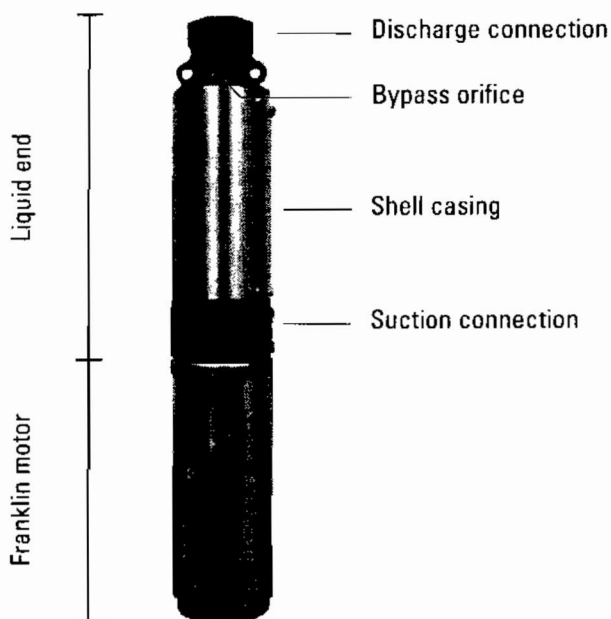
# PA Series High-Head Effluent Pumps

## Technical Data Sheet

### Applications

Our submersible High-Head Effluent Pumps are designed to transport screened effluent (with low TSS counts) from septic tanks or separate dosing tanks to collection and treatment systems. All our pumps are constructed of lightweight, corrosion-resistant stainless steel and engineered plastics; all are field-serviceable and repairable with common tools; and all PA Series models are UL and CSA listed for use with effluent.

Orencia High-Head Effluent Pumps are used in a variety of applications, including: drainfields, packed bed filters, mounds, aerobic units, effluent irrigation, effluent sewers, wetlands, lagoons, and more.



Actual view

### Features/Unique Specifications

To specify this pump for your installation, require the following:

- minimum 24-hour run-dry capability without water lubrication
- 1/8-inch bypass orifice to ensure flow recirculation for motor cooling and to prevent air bind;
- floating stack design to protect against upthrust and increase pump life;
- repairable (nondisposable) liquid end for better long-term of ownership;
- corrosion-resistant construction;
- Franklin motor rated for continuous use and frequent cycling
- type SOOW motor cable (suitable for Class I, Division 1 and applications).

### Standard Models

See specifications (on back) for complete list.

### Nomenclature

PA 20 05 1 1

Voltage:  
1 = 115

Phase:  
1 = single-phase

Horsepower:  
05 = 1/2 hp

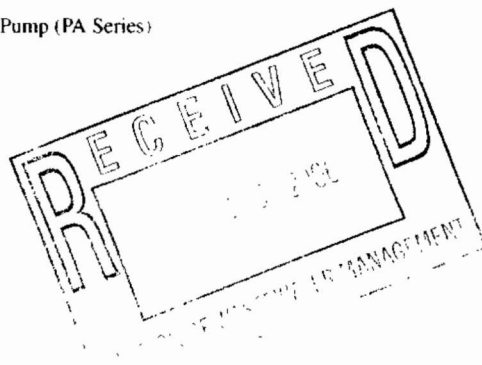
Nominal flow (gpm).  
10  
20  
30  
50

Pump (PA Series)



Orencia Systems<sup>®</sup>  
Incorporated

1-800-348-9843



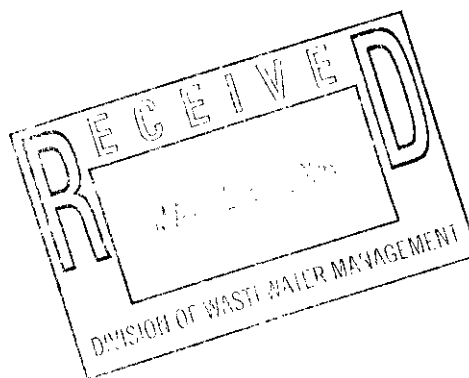
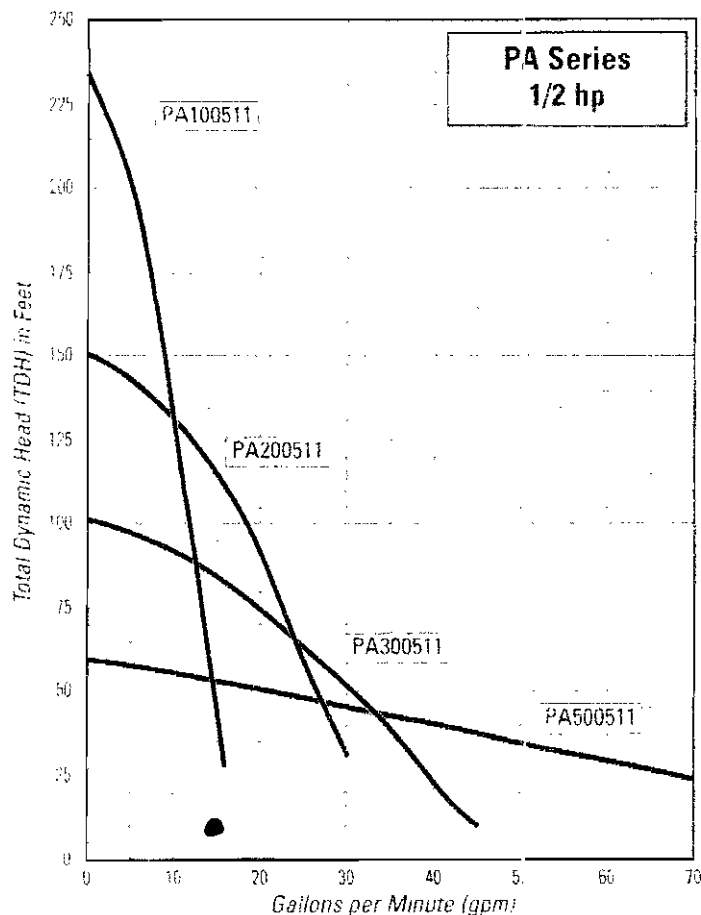


# PA Series Pump Curves

## Technical Data Sheet

### Using a Pump Curve

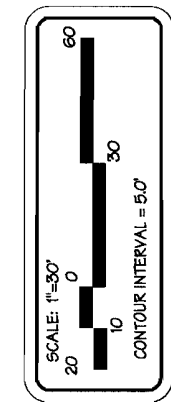
A *pump curve* helps you determine the best pump for your system. Pump curves show the relationship between flow (gpm) and pressure (TDH), providing a graphical representation of a pump's optimal performance range. Pumps perform best at their *nominal flow rate*—the value, measured in gpm, expressed by the first two numerals in an Orendo pump nomenclature.



Orendo Systems<sup>®</sup>  
Incorporated

1-800-348-9843





All bearings refer to magnetic north  
Method of survey: Total station and prism  
Elevations and contours by trigonometric interpolation

# PROPOSED EASEMENT LANGUAGE:

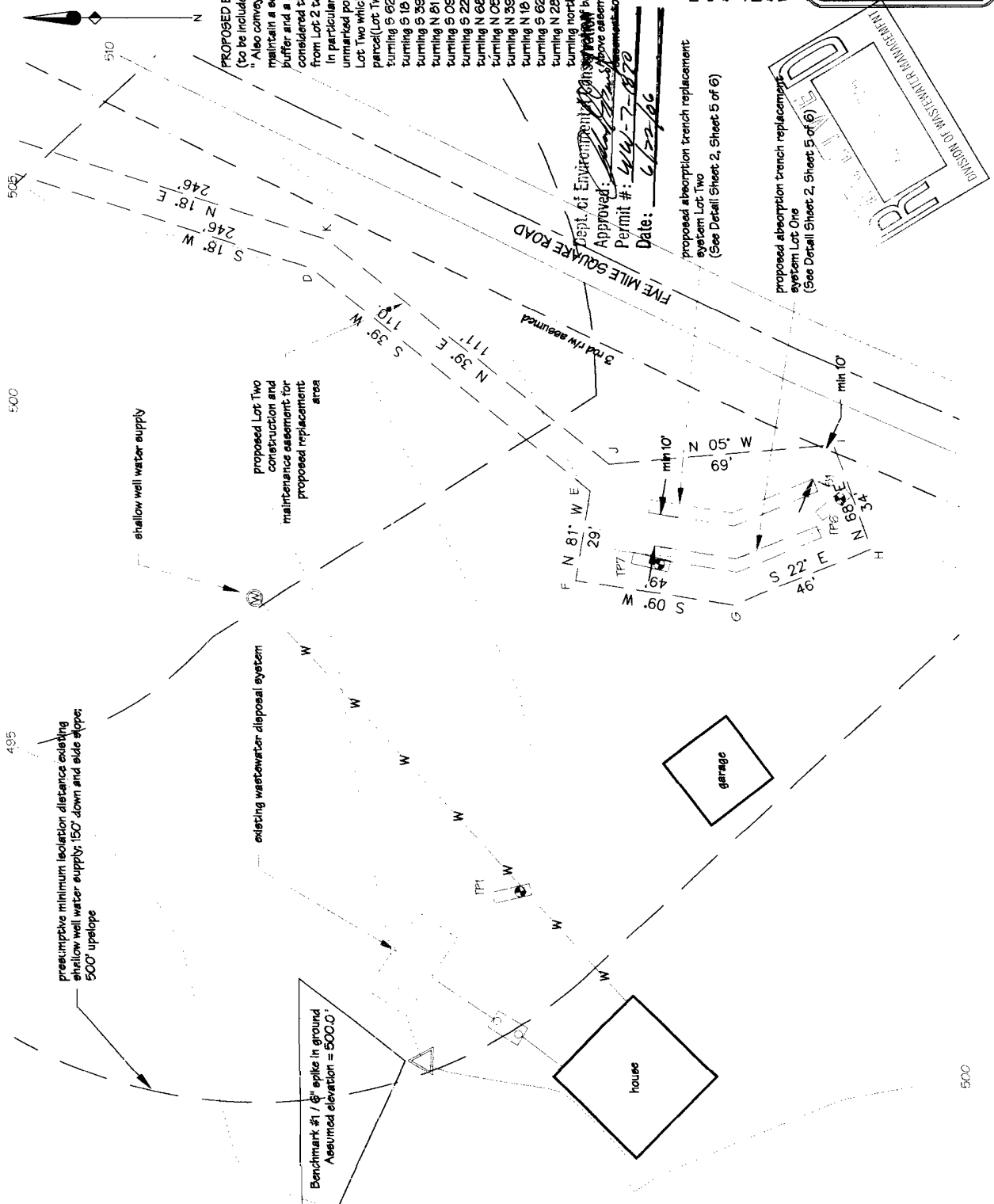
(to be included in Lot Two deed)  
"Also conveyed is the exclusive right to construct, use, operate and maintain a septic system (replacement) surrounded by a 10' maintenance buffer and a delivery pipe (force main) thereto. The delivery pipeline shall be considered the centerline of a 10' wide right of way running southwest from Lot 2 to the aforesaid septic system."

In particular, this easement can be more fully described as beginning at unmarked point (A) along the common boundary of proposed Lot One and Lot Two which point is 43 ft more or less from the southerly corner of said parcel (Lot Two) and running S 23° W 61' to an unmarked point (B), thence turning S 62° E 22' to an unmarked point (C), thence turning S 18° W 246' to an unmarked point (D), thence turning S 59° W 110' to an unmarked point (E), thence turning N 81° W 29' to an unmarked point (F), thence turning S 09° W 49' to an unmarked point (G), thence turning N 68° E 34' to an unmarked point (H), thence turning N 05° W 69' to an unmarked point (I), thence turning N 39° E 11' to an unmarked point (J), thence turning S 09° W 49' to an unmarked point (K), thence turning N 18° E 246' to an unmarked point (L), thence turning S 62° E 6' to an unmarked point (M), thence turning N 29° E 63' to an unmarked point (N), thence turning northerly along westerly boundary of said parcel a distance of 31' turning northerly along westerly boundary of said parcel a distance of 31' to the beginning of the easement.

Approved: [Signature]  
Permit #: 44-7-1870  
Date: 6/22/06

I hereby certify that the design-related information submitted with this application is true and correct, and that, in the exercise of my reasonable professional judgment, the design included in this application for a permit complies with the Vermont Wastewater System and Potable Water Supply Rules and the Vermont Water Supply Rules.

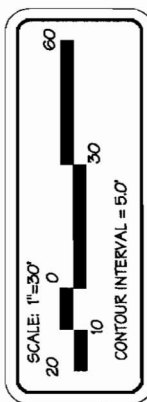
SHEET 5 of 6		MAP NUMBER 05-53	
SITE PLAN DETAIL LOT ONE			
for		Brighton, VT	
P & R Adams		by	
Glenn A. Harter		179 Peene Hill Rd.	
Site Tech A&S		Barton, VT	
Drawn: GH		Design: GH	
Surveyed: G.H. G.B.		Date: May '06	



2005-7-1870

500

495



All bearings refer to magnetic north  
Method of survey: Total station and prism  
Elevations and contours by trigonometric interpolation

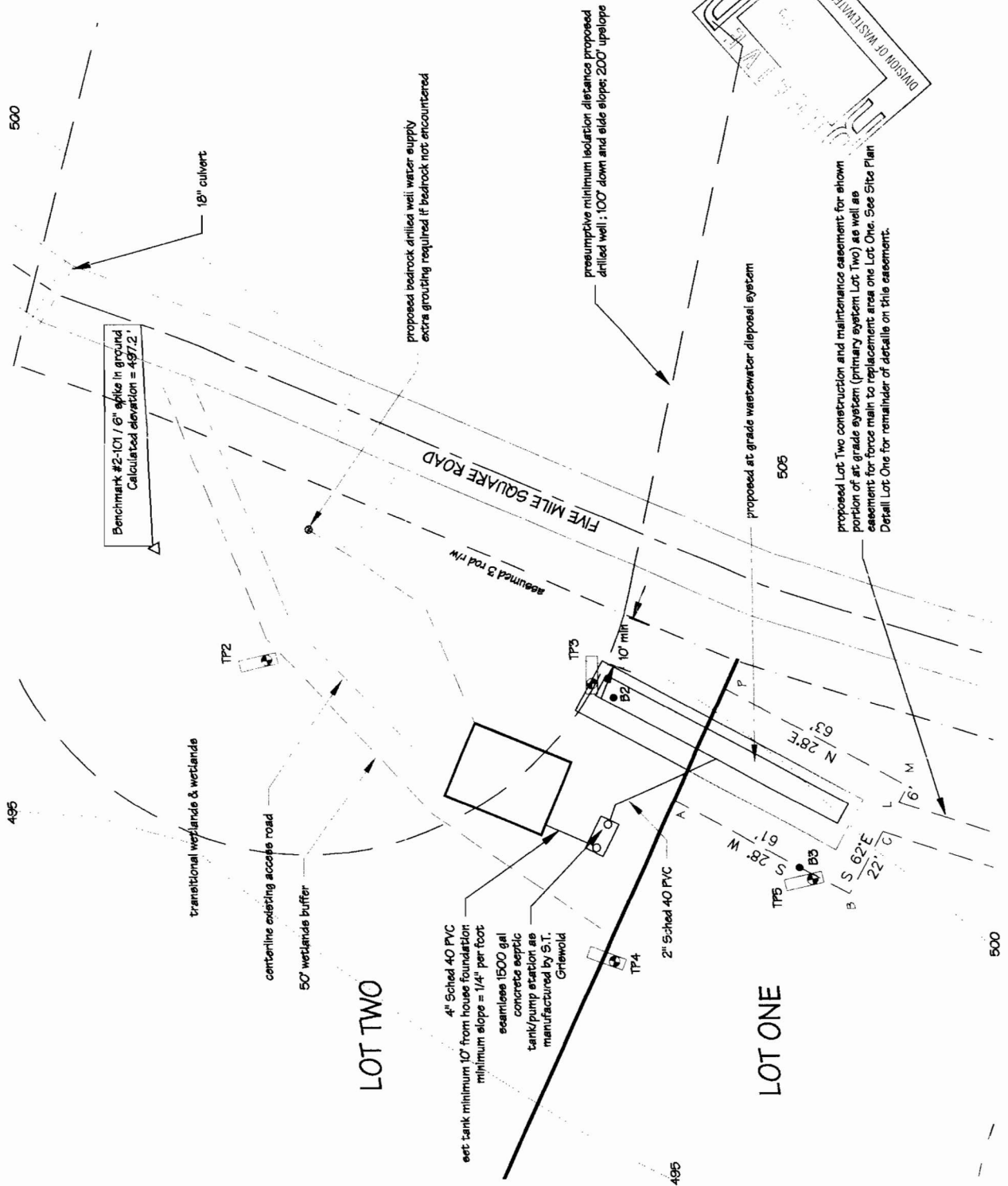
NOTES:

- 1) No construction or disturbance of any type allowed in 50' wetland buffer zone. Buffer zone agreed upon by this consultant and District Wetlands Ecologist Shannon Morrison on April 11, 2006. Any expansion of this zone requires wetland delineation or other pertinent action.

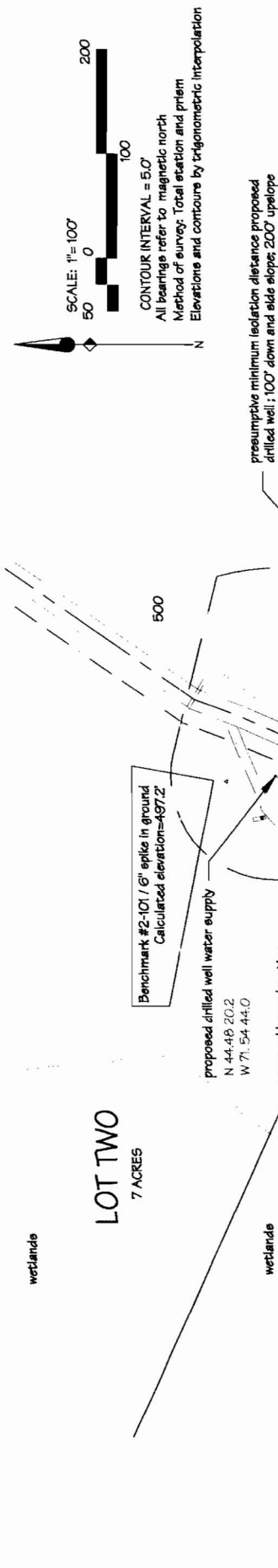
Dept. of Environmental Conservation  
Approved: *[Signature]*  
Permit #: *44W-7-1870*  
Date: *6/22/06*

I hereby certify that the design-related information submitted with this application is true and correct, and that, in the exercise of my reasonable professional judgment, the design included in this application for a permit complies with the Vermont Wastewater System and Potable Water Supply Rules and the Vermont Wastewater System Rules.

SHEET 2 of 6		MAP NUMBER 05-53	
SITE PLAN DETAIL LOT TWO			
for			
P. & R. Adams			
by			
Glenn A. Harter			
Site Tech A&B			
Brighton, VT			
Drawn: GH			
Design: GH			
Surveyed: G.H.G.B.			
Date: May '06			



www.1870



Benchmark #2-101 / 6" spike in ground  
Calculated elevation=497.2"

proposed drilled well water supply  
N 44.48 20.2  
W 71.54 44.0

proposed house location

50' wetlands buffer no construction or disturbance allowed beyond this point. This buffer zone is marked as the Cyde River side of the edge of current access road

LOT ONE

54

Lot One -

proposed replacement water supply Lot One -  
N 44.48 171  
W 71.54 45.6

existing shallow well water supply  
N 44.48 16.4  
W 71.54 46.1

existing in ground wastewater disposal system

Benchmark #1 / 6" spike in ground  
Assumed elevation = 500.0'

SITE PLAN INSET  
Site Plan Detail Lot 1

placement areas  
N 44.48 14.9  
W 71 54 451

**Paragoc**

wetland

wetland

490	495	500	505	510
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**PROJECT DESCRIPTION:**

Proposed subdivision of existing 39-acre lot off Five Mile Square Road in Brighton, VT: Lot One 21 1/2 acres to be retained with existing single family residence, wastewater disposal system and portable shallow well water supply; Lot Two 7+/- acres with proposed single family residence, as-grade wastewater disposal system and drilled well water supply. Both Lots are impacted by wetlands bordering the Clyde River. A 50' buffer zone is shown for Lot Two. No construction or disturbance will take place within this zone. In addition, both Lot One and Two require replacement areas within the Lot One water supply well shield.

NOTES

1. Shown metes and bounds for Lots One and Two are preliminary and are intended solely for the permitting and planning purposes of the owners and are not to be used for deed record purposes. Final metes and bounds to be set by licensed Vermont Land Surveyor.

Dept. of Environmental Conservation  
Approved: [Signature]  
Permit #: 44-7-1870  
Date: 6/22/06

Date: 6/22/06Date: 6/22/06

I hereby certify that the design-related information submitted with this application is true and correct, and that, in the exercise of my reasonable professional judgment, the design included in this application for a permit complies with the Vermont Wastewater System and Potable Water Supply Rules and the Vermont Wastewater Supply Rules.

Water Supply Rule: 1/5

## SITE PLAN

Brighton, VT

Glenn A. Harter  
by  
179 Peene Hill Rd  
Livingston, Tenn 38342

Glenn A. Harter  
179 Peeno Hill Rd.

Glenn A. Hartel  
Site Tech A&B

Drawn: GH Design: GH

Surveyed: G.H. G.P.	Date: May 20
<p>1. <i>What is the name of the person or persons who have been in charge of the work done during the last year?</i></p> <p>2. <i>What is the name of the person or persons who have been in charge of the work done during the last year?</i></p>	

SHEET 1 of 6

MAP NUMBER 06-53

1875-76