

Individual Permit Application

For a Lake Encroachment Permit under

RECEIVED
NOV - 3 2016
WSMD

Chapter 11 of Title 29, § 401 et seq.

For Lake Encroachment Permitting Use Only Application Nun ' 227-12			
Submission of this application constitutes notice that the personal submission of the submission of th	on in Section B intends to encr	oach hevond the mean water level	
of a lake or pond, and certifies that the project will comply wit			
this form must be provided, and the requisite fees (Section I) r			
deemed complete.	toologista koonsta kanka matha ekit koosta ka t	o (nagatan nagatan kana kana kana kana kana kana kana	
A. Project Information			
1. Physical Address (911 Address): 1051 Buck Lake Roa	d		
2a. Town- County: Woodbury - Washington	2b. Zip: 05681		
3. Span (School Parcel Account Number is required for your application to be deemed complete. It can be obtained from your property tax bill. If you cannot locate your property tax bill, please obtain this information from your Town Clerk)		780-248-10813	
4. Name of Lake/Pond: Buck Lake - Woodbury			
5. Have you ever applied for a permit with the Department parcel? Yes	t of Environmental Conserva No	ation associated with this	
B. Applicant (Landowner if applicable) Contact Information	on .		
1. Name: Vermont Fish & Wildlife Department: Green	Mountain Conservation	Camp	
2a. Mailing Address: 1 National Life Drive, Davis 2			
2b. Town: Montpelier	2c. State: Vermont	2d. Zip: 05620	
3. Phone: 802-828-1460	4. Email: FWGMCC@ve	rmont.gov	
C. Application Preparer Contact Information:			
1. Name: Alison Thomas			
2a. Mailing Address: 1 National Life Drive, Davis 2			
2b. Town: Monipelier	2c. State: Vermont	2d. Zip: 05620	
3. Phone: 802-371-9975	4. Email: Alison. Thomas@ve	rmont.gov	
D. Abutting Land Owners			
Using the abutter addendum available on .dec.vermont.gov project.	<u>∕.,</u> attach a list of land owne	rs who abut the proposed	
E Project Description			
1. Describe the proposed project including the description of used during construction and the anticipated work schedule.	e. Identify whether or not the	ne project includes placement	
or removal of fill and if so, specify the number of cubic yard	ls of fill or dredged material	s to be placed or removed	
beyond the shoreline at mean water level.			
Dry hydrant installation for fire department services attached documents regarding the dry hydrant loc extend 60 feet, 40 feet extending in the water. There waste, as the pipe is getting placed below the frost line.	ation, design, and mate vill be no fill removed or a	rials. The intake pipes will dditional fill placed in the	

3. Does the project pro the effects of vegetation	•	shoreline vegetation? If so, w	hat measures are proposed to reduce
		d silt that is currently a wa	terfront swimming area for
.:	ne camp during the summ	_	terriorit swimming area for
campers attending to	ic camp during the summ	CI.	
A Describe the surrous	nding shoreline. Is the project	t consistent with these surrou	indings? What measures are
	e project is in-keeping with		mangs: what measures are
			the beach is early succession
	· · · · · · · · · · · · · · · · · · ·	-	lants. None of the plants areas
will be disturbed for			
	• •		
5 Will the project affect	rt navigation recreation and	d other public uses? If so, how	will these effects he
minimized? No	st navigation, recreation, and	3 other public deest if so, now	win these effects be
mmmzeur NO			_ + 4
			20.
G. Applicant Certificati		procented on this application	are true and accurate and recognize
	•		ithorized. I understand that failure
	-		§ 401 et seq., and the Vermont
			e Act pursuant to 10 V.S.A. chapter
201.			•
	1	lison Thomas	, ,
Applicant (landowner if	applicable) Signature:	ison shorms _	Date:
L Annlicant Prenarer Co	ertification (if applicable)		
		enalty of law that this docume	ent and all attachments were
			to assure that qualified personnel
		•	of the person or persons who
manage the system, or t	hose persons directly respo	nsible for gathering the inform	nation, the information submitted is,
-	_		that there are significant penalties
for submitting false info	rmation, including the possil	oility of fine and imprisonmen	t for knowing violations.
Application Preparer Sig	nature: N/A		_Date:
Additional Beauty-4	rozumonention (alogeogla	ck to ensure you have comple	+od +to following)
		or otherwise indicate "not app	
	ides site plans with aerial an	,	
		and surtace areas of cleared a	reas and impervious surfaces; and
	ides photos of project area.		



Schedule E - Adjoiner Information

Submit with the application a list of all adjoining landowners with mailing addresses. An "adjoiner" is a person or organization which owns or controls land or easements on lands which physically abut the tract or tracts of land on which your project is located. Be certain to include landowners on the opposite sides of highways, railways, and rivers. Also include homeowner associations, utility companies, and others with significant legal interest in the project land. It is very helpful if you indicate the location of each adjoiner on your site plan.

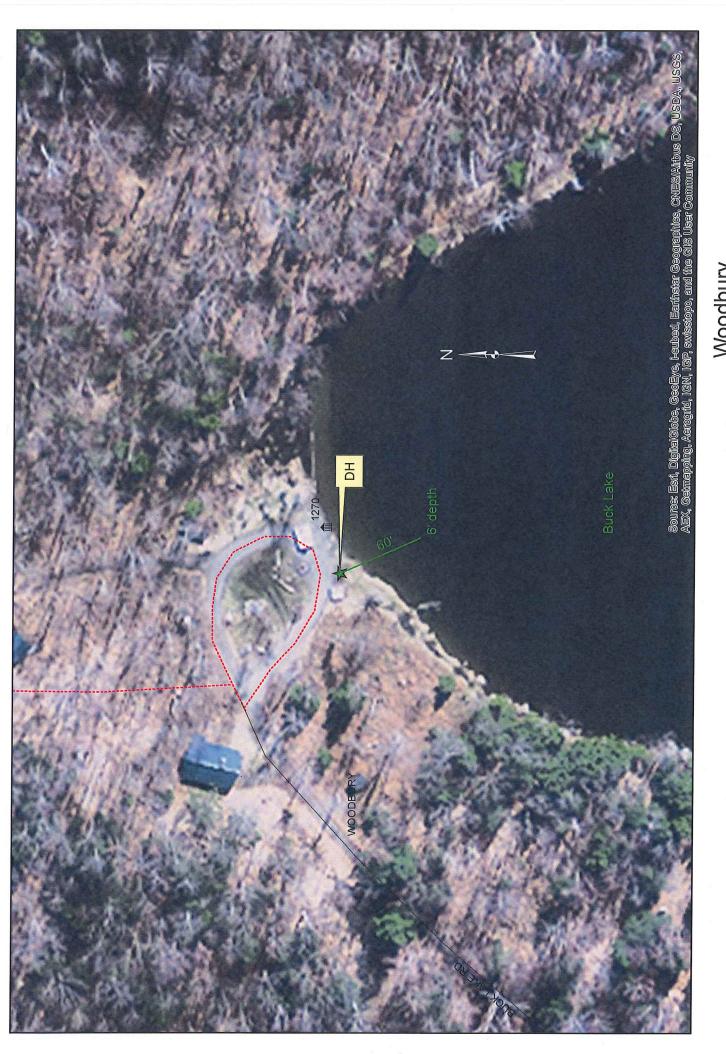
If you do not provide a list which is thorough and up-to-date, your application could be delayed because of improper notice distribution!

Please note: For lists which include more than 20 adjoining landowners, our administrative staff appreciates receiving the list on mailing labels to facilitate the notification process. Thank you.

Donald E. and Gene P. Turgeon Box 94 ADDRESS TOWN STATE Patrick and Jill McCaffrey 2 Dover Street ADDRESS TOWN STATE PATRICK and Jill McCaffrey 2 Dover Street ADDRESS TOWN STATE PATRICK and Jill McCaffrey 3 DOVERSS TOWN STATE PATRICK AND JILL A	ADJOINER NAME	ADDRESS	TOWN	STATE	ZIP
ADJOINER NAME Patrick and Jill McCaffrey 2 Dover Street South Burlington VT 05403 ADJOINER NAME ADDRESS TOWN STATE ZIP GORDON Family Irrevocable Trust 15 Holly Lane Mattapoisett MA 02736 ADJOINER NAME ADDRESS TOWN STATE ZIP NANCY McAdam Gorden 15 Holly Lane Mattapoisett MA 02736 ADJOINER NAME ADDRESS TOWN STATE ZIP STUART ADJOINER NAME ADDRESS TOWN STATE ZIP STUART AND ADDRESS TOWN STATE ZIP DILITOR ADJOINER NAME ADDRESS TOWN STATE ZIP Perry and Carol Hodgdon Z15 Equine Lane Randolph VT 05661 ADJOINER NAME ADDRESS TOWN STATE ZIP Perry and Carol Hodgdon Z15 Equine Lane Randolph VT 05600 ADJOINER NAME ADDRESS TOWN STATE ZIP RICHARD ADJOINER NAME ADDRESS TOWN STATE ZIP ROUNNER				1	
Patrick and Jill McCaffrey 2 Dover Street South Burlington VT 05403 ADJOINER NAME ADDRESS TOWN STATE ZIP Gordon Family Irrevocable Trust 15 Holly Lane Mattapoisett MA 02736 ADJOINER NAME ADDRESS TOWN STATE ZIP Nancy McAdam Gorden 15 Holly Lane Mattapoisett MA 02736 ADJOINER NAME ADDRESS TOWN STATE ZIP STOWN STATE ZIP OS681 ADJOINER NAME ADDRESS TOWN STATE ZIP DIllion Allaire ADDRESS TOWN STATE ZIP OS681 ADJOINER NAME ADDRESS TOWN STATE ZIP OS681 ADJOINER NAME ADDRESS TOWN STATE ZIP CONDINER NAME ADDRESS TOWN STATE ZIP ADJOINER NAME BOX 295 Hardwick VT 05843-0295 ADJOINER NAME ADDRESS TOWN STATE ZIP 121 Buck Lake Road, LLC 1190 Hopkins Road Hardwick VT 05643 ADJOINER NAME ADDRESS TOWN STATE ZIP 121 Buck Lake Road, LLC 1190 Hopkins Road Hardwick VT 05643 ADJOINER NAME ADDRESS TOWN STATE ZIP YOONDE STATE ZIP Y	_	· PARTAMENTAL SAMMAN AND A SAMM			ļ ·
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Bradley and Brenda Slayton P.O. Box 11 Woodbury VT 05681 ADJOINER NAME ADDRESS TOWN STATE ZIP E.B. Hyde Company 46 East State Street Montpelier VT 05602 ADJOINER NAME ADDRESS TOWN STATE ZIP	Roger and Michelle Dufresne	52 Plains Road	Fairfax	VT	05454
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E.B. Hyde Company 46 East State Street Montpelier VT 05602 ADJOINER NAME TOWN STATE ZIP	Bradley and Brenda Slayton	P.O. Box 11	Woodbury	VT	05681
ADJOINER NAME ADDRESS TOWN STATE ZIP	ADJOINER NAME	ADDRESS	TOWN	STATE	ZIP
	E.B. Hyde Company	46 East State Street	Montpelier	VT	05602
Geraldine and Felix Callan 420 Sweet Road Waterbury Center VT 05677	ADJOINER NAME	ADDRESS	TOWN	STATE	ZIP
	Geraldine and Felix Callan	420 Sweet Road	Waterbury Center	VT	05677

Dry Hydrant Flow Worksheet

Town: Woodbury	Suction Hose:	
Site: 2016 RFP New	Date: 4/20/16	Flow: 1155 gpm
USE WITH THE HANDOUT "DRY HYDRANTS & OTHER WATER SUPPLY INNOVATIONS"	VATER SUPPLY INNOVATIONS"	
ENTER DATA BELOW, REFER TO HANDOUT WHEN NEEDED	DED	
(4, 6, 8, 10, 12 INCH PIPE ONLY)	PIPE 1	PIPE 3
6 in= PIPE 1 size (SMALLEST)	0 =# of 45d elbows	0 =# of 45d elbows
140 =C value (100,120 or 140)	2 =# of 90d standard elbows	0 =# of 90d standard elbows
8 in= PIPE 2 size	0 =# of 90d long turn elbows	0 =# of 90d long turn elbows
140 =C value (100,120 or 140)	0 =# of tees or crosses	0 =# of tees or crosses
10 in= PIPE 3 size	0 =# of gate valves	0 =# of gate valves
120 =C value (100,120 or 140)	0 =# of butterfly valves	0 =# of butterfly valves
10 in= PIPE 4 size	0 =# of swing check valves	0 =# of swing check valves
140 =C value (100,120 or 140)		
1155 gpm= design delivery rate	PIPE 2	PIPE 4
1323 ft= elevation	0 =# of 45d elbows	0 =# of 45d elbows
6 ft= static lift	0 =# of 90d standard elbows	0 =# of 90d standard elbows
75 dF= water temp(HIGHEST POSSIBLE)	0 =# of 90d long turn elbows	0 =# of 90d long turn elbows
80 ft= total length of PIPE 1	0 =# of tees or crosses	0 =# of tees or crosses
0 ft= total length of PIPE 2	0 =# of gate valves	0 =# of gate valves
0 ft= total length of PIPE 3	0 =# of butterfly valves	0 =# of butterfly valves
0 ft= total length of PIPE 4	0 =# of swing check valves	0 =# of swing check valves
5 ft= strainer loss (if PIPE 1 size)		
0 ft= strainer loss (if PIPE 2 size)		
0 ft= strainer loss (if PIPE 3 size)	RESULTS	
0 ft= strainer loss (if PIPE 4 size)	5.0635 PSIA PUMP PRESSURE	Design is OK!
none = reduction #1	(5 psia or greater means system will work)	vork)
none = reduction #2	(inputs must be changed to make it a positive 5 psia value)	positive 5 psia value)
none = reduction #3		
none = reduction #4		
6 = suction hose inside diameter		
(4.5, 5, 6 INCH DIAMETER ONLY)	,	



Woodbury Buck Lake - Potential Dry Hydrant 72°23'48.069"W 44°28'1.366"N

120 Feet

9

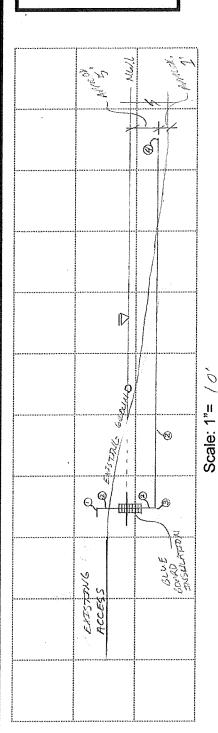
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Rural Fire Protection (RFP) Water Supply Site Assessment Form (Revised 5/28/15)

Date: 4/26/16 Town: WOODBURY County: WAS #Fire Department: WOODBURY Site Name: BUCK LAKE Site ID Number: WOODBURY Approx. Access/Standpipe Location: 55 MJK REND LN/Long: 72°23'46" W Lat: 44°28'/ N
Site Name: Site ID Number: Wooks 42061256
Approx. Access/Standpipe Location: 35 MJLL ABLID LIN Long: 72 23 40 W Lat: 44 28 / N
Property Owner/Address: STATE Largest Fire Load/Flow within 1000ft Site Assessment Completed by: TICOY DAYCE Project: ZOYO PER INCOMENTATION
Largest Fire Load/Flow within 1000ft 1.5mi radius:
Site Assessment Completed by: TICOY DAME Project: 2010 MEP 198668AM
Needed Fire Flow (if known): 1000 7 gpm Existing RWS Repair LI Out of service Date:
Agreements (circle applicable - check when complete): Landowner Grant Other
Water Source: Lake Pond Wetland River Stream Brook Recommended System: Dry Hydrant Basin Pressure (Wet) Drafting Type of Recharge: Stream Seep spring groundwater river Rate of Recharge: Poor Fair Good Excellent
Rate of Recharge: Poor Fair Good Excellent
Site Accessibility: Asphalt Dirt. Parking Area Driveway Other: Depth of water where system intake will be located: 6 ft 155um TN6 3' 0F TeE
Depth of water where system intake will be located: No It 1/35000 S OF 2000
Lift @ NWL: 5-6 ft Horizontal Distance: 600-70 ft Elevation (approx.): /350 ft
Connection Information: Hose: \$\subseteq 4.5" \$\subseteq 5"\$ Thread Size: \$\subseteq 4.5"\$ \$\subseteq 5"\$ Thread Size: \$\subseteq 5"\$ Thread Size: \$\subseteq 5"\$
Estimated Flow Rate of System (from New Hydrant Flow Spreadsheet): //50 gpm Land-use: Private Res Recreation Farm Village Other:
Land-use: Private Res Recreation Pain Vinage Other.
Water Source Information & Calculations for fire purposes (estimate): Volume (static water bodies) = Surface Area x intake depth x 7.48gal/cf x (2/3)
Surface Area Area Area Area Area Area Area Are
Surface Area: $ft \times ft = 2 \text{MILLIONS} ft$ (EFrom GIS Software) Volume: Area $2 \text{M} \text{ sf } x$ (Intake depth $ft = 2 \text{MILLIONS} ft$ (EFrom GIS Software) Volume in Winter months $\approx 10 \text{ m}$ gal
Volume in Winter months ≈ 10 m gal
Note: Thickness of ice must be deducted from the intake depth value for winter months volume. If not known at time of survey use 2ft.
Flow (flowing water bodies at time of survey) = Q = Area x Velocity (attach any survey or calc. sheets) Cross sectional Area sf x Velocity f/s x (60sec/min) x (7.5gal/cf) = gpm
Permitting/Signoff Needed: Permitting Applications and Contact Information: www.vtwaterquality.org □Stream Alteration/ Water Quality (State) □Lakes and Ponds (State) □La
State Fish & Wildlife Access: Approved \(\Boxed{1} \) NOT Approved \(\Boxed{1} \) F&W Concerns/Comments: F&W Rep: Name: Title:
F&W Rep: Name: Title: Note: All RFP systems in VT State F&W Accesses must have a signed Memorandum Of Understanding (MOU) between
the Town/FD before construction; and the RFP Technician must be present to assist and insure the system is installed as agreed upon.
Field Notes:
Field Sketch:
1055 DESTUN

GEE WIS & DESTUR



Site Map Not To Scale

Design Flow (GPM): $72 \le 0$

Approx. Water Volume:

Dry hydrant installations on a river or stream should ALWAYS: 1) Make sure the construction work is clean & neat. 2) If needed only use clean stone fill. 3) All exposed soil shall be seeded and mulched immediately upon project completion. 4) While working in shallow steams use a hay bale or sand bag cofferdam system. 5) In-stream construction is generally limited to June 1st to October 1st (and maybe more restrictive in specific streams). 6) Permitting is required for any in-stream work. Municipalities shall apply for the appropriate permit by contacting the Vermont ANR River Management Stream Alteration Engineer in your area.

Winter: 2. S JUSTION Summer: SURVEROLL

See Attached Location/GIS Map

Notes

380.00

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9000H WEND WI 6" NA

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Description

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Total

Unit Cost

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Bill Of Materials

This design does NOT certify your rural water supply site for a 2% (50 year return period) drought condition. For the Insurance Services Office to give credit for this water supply it must meet the Suction Supply requirements of the Fire Suppression Rating Schedule as to accessibility, availability, needed fire flow, duration, pumper capacity and distances. The 2% drought volume must be determined by a Vermont registered /licensed professional engineer, hydrologist, or similarly qualified person.

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· INSULATE 500.00 20:00 00'565'Hs 700.00 1900.00 60,00 800.00 NO.00 35,00 250.08 5,00 28,00 150.60 2,00 EA FA HR E. 100 7 V Totai 6" & SLH YO PUC YOUTERNIAL Franks W CARPUSH BLUE PAIR BOARD INSLATED. 6" \$ SCH 40 PUC 90 FLEDW SPECK NO PUR CONFERNO 6"6 SCH 40 PUC Miscellaneous Excavation 1.430R

VERMONT RURAL FIRE PROTECTION TASK FORCE Vermont Association of Conservation Districts (VACD) Rural Fire Protection Program - Randolph, VT 05060

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Drawn by: 7204

Reviewed by:

Sheet

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Date:

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Dry Hydrant Installation Tips and Recommendations

For all installations:

- Always review any permits and conform to requirements for erosion control, rip rap, safety, etc.
- Have on hand at least 100 feet of 1" disposable rope (per PVC hydrant installation) for hand lines (stabilizing/controlling hydrant movement) and installing/lowering hydrant in to position; and have a knife or other means to cut the rope when hydrant is in position. For steel hydrants (river and stream applications), heavy duty chain should be used for installing/lowering hydrant in to position.
- If possible, drain the pond down to just below where intake will be located for easier installation.
- If possible, have a boat of adequate size available to help place the intake where it needs to be.
- Have at least 4 people (not including machine operators) to help with the installation.
- If your system requires blue board insulation to keep hydrant from freezing in winter, and if you're working in a wet trench (pond not drained), have an additional machine (small backhoe or tractor) available to hold hydrant down and in position (people standing on the insulation will not work, may break the insulation, and is not safe). Rope can be used to secure insulation on riser (not included in recommended 100' per installation).







