Vermont Wetlands Program Permit Application Database Form

Under Sections 8 and 9 of the Vermont Wetland Rules



Application Submittal Instructions

If submitting via US post, include a check in the correct fee amount made payable to the "State of Vermont," and a CD for applications that contain large files (1 MB or greater).

Mail to: Vermont Wetlands Program
Watershed Management Division
One National Life Drive, Main 2
Montpelier, VT 05620-3522

- Applications can also be submitted via email to the following address: anr.wsmdwetlands@state.vt.us
 - If submitting via email, please mail a check in the correct fee amount, made payable to the "State of Vermont," and a copy of the Vermont Wetlands Program Application Database Form (this page) to the address provided above. It is not necessary to mail in a copy of the complete application.

Applicant Name:		Appli	plication Preparer Name:		
Town where project is located:			County:		
Span#:			Vermont Wetland	s Project (VWP)# if Known:	
Project Location Description: 911 street address or direction from nearest intersection					
Brief Project Summary:					
Application Type: □Individual Permit (r	nultiple wetlands)	□Afte	er the Fact Permit	Wetland Determination	
□ Individual Permit (single wetland) □ General Permit Coverage Authorization □ Permit Amendment: VWP Project #		mit Amendment: VWP Project #			
Existing Land Use Type(s): (Check all that apply)		ntial (subdivision) □Undeveloped			
☐ Agriculture ☐ Transportation ☐	Forestry □Pa	arks/Red	Rec/Trail □Institutional □Industrial/Commercial		
Proposed Land Use Type(s): (Check all	that apply) \square Resid	dential (s	single family) \square Resider	itial (subdivision) □Undeveloped	
□Agriculture □Transportation □Forestry □Parks/Rec/Trail □Institutional		al Industrial/Commercial			
Proposed Impact Type(s): (Check all that apply) ☐ Buildings ☐ Utilities ☐ Parking ☐ Septic/Well ☐ Stormwater		Septic/Well Stormwater			
□Driveway □Park/Path □Agriculture	□Pond □La	awn [□Dry Hydrant □Bea	ver Dam Alteration □Silviculture	
☐Road ☐Aesthetics ☐No Impact	☐Other:				
Wetland and Buffer Impact Type: (Che	ck all that apply) \Box	Dredge	e □Drain □Cut Ve	egetation Stormwater	
☐Trench/Fill ☐Other:					
Wetland Delineation Date(s):				-	
Wetland Improvements		Zone In	nprovements	Reason for Improvements	
Wetland Improvements Restoration: s.f.	Restoration:	Zone In	s.f.	☐Correction of Violation	
Wetland Improvements Restoration: s.f. Creation: s.f.	Restoration: Creation:	Zone In	s.f. s.f.	☐Correction of Violation ☐To offset permit impacts	
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Vermont Individual Wetland Permit Application and Determination Petition

Under Sections 8 and 9 of the Vermont Wetland Rules

Applicant Name: Thomas Kelly and Stella Richards

Address: 21 Philemon Whale Lane



State MA

Zip: 01776

Phone Number: 978-203-9220	Email Address: thomasbkelly@gmail.o	com	
Applicant Certification:			
By signing this application you are certifying that all of the ir	formation contained within is true, accu	urate, and compl	ete to the best of
your knowledge. Original signature is required.			
TI 1/-11	Digitally signed by Thomas Kelly		
l nomas Kelly	Date: 2016.06.08 14:03:11 -04'00'	0.0.004	0
Applicant Signature: Thomas Kelly	Date: 2010:00:00 14:03:11 -04:00	Date: 6-8-201	6
* *			
Landowner Information: Landowner must sign the applicat	ion. If landowner is different from the applica	ant this section mu	st be filled out
■Check this box if landowner is the same as the a			
Landowner Name:			
Address:	City/Town	State:	Zip:
Phone Number:	Email Address:		
Landowner Easement: Attach copies of any easements, agreen	nents, or other documents conveying permis	sion, and agreem	ent with the landowner
stating who will be responsible for meeting the terms and conditions			
the nature of the agreement or easement in the space provided	d below:		
			, ,
Landowner Certification:			90
By signing this application you are certifying that all the infor	mation contained within is true, accura-	te, and complete	to the best of your
knowledge. Original signature is required.	,	,	
Landowner Signature:		Date:	
Application Despessed Informations 2 11 1		· · · · · · · · · ·	
Application Preparer Information: Consultant, engineer,		or filling out the ap	plication, if other than
the applicant or lands		ad Cardranand	-I
Application Preparer Name: Jeffrey Parsons	Organization/Company: Arrowwo	State: VT	
Address: PO Box 34	2		Zip: 05847
Phone Number: 802 7442043	Email Address: jeff@arrowwood	vt.com	
Application Preparer Certification:			
By signing this application you are certifying that all of the in	formation contained within is true, accu	rate, and comple	ete to the best of
your knowledge. Original signature is required.			
Application Preparer Signature: What we have	Service Contraction of the Contr	Date:)	8.2016

Applicant Information: If the applicant is someone other than the landowner, the landowner information must be included below

City/Town: Sudbury

Handwritten signatures are also accepted

1. Location of wetland and project:

Location description should include the road the wetland is located on, the compass direction of the wetland in relation to the road, 911 street address if available, and any other distinguishing features.

2. Site visit date(s) and attendees:

A site visit is **required** before the application can be called complete

2.1 Date of Visit(s) with State District Wetland Ecologist

2.2. List of people present for site visit(s) including Ecologist, landowner, and representatives.

3. Wetland Classification:

For multiple wetlands fill out the multiple wetlands table for sections 1 and 3 through 1

3.1. The wetland is a Class II wetland because :

3.2. Section 4.6 Presumption

If the wetland meets the Section 4.6 Presumption, it does so primarily because:

4. Description of the Entire Wetland:

Answer the following questions regarding the entire wetland, which includes all wetland areas connected to the wetland proposed for impact. Answers may be estimates based on desktop review when the wetland extends past the investigation area (parcel boundary). Specific questions about the wetland in the project area will follow. For multiple wetlands, fill out the multiple wetlands table.

4.1. Size of Complex in Acres:

The size of the complex can be obtained from the Wetland Inventory Map for mapped wetlands, or best estimation based on review of aerial photography or site visit. This is not the size of the of the delineated wetland on the subject property unless the entirety of the wetland is represented in the delineation.

4.2. Vegetation Cover Types Present:

List all wetland types in the wetland or wetland complex and their percent cover.

For example: 50 acres of softwood forested swamp; or 30% scrub swamp, 70% emergent wetland

4.3. Landscape Position:

Where is the wetland located on the landscape?

For example: Bottom of a basin, edge of a stream, shore of a lake, etc.

4.4. Hydrology:

Describe the main source of water for the entire wetland. List any river, stream, lakes, or ponds

4.4.1. Direction of Flow:

For example: Stream flows from north to south through the wetland complex, or the wetland drains generally to the southwest.

4.4.2. Influence of Hydrology on the Entire Wetland:

For example: The river provides floodwater to the wetland in the spring.

4.4.3. Relation of Entire Wetland to the Project Area:

The distance between the project area and any nearby surface waters

NP Application December 2015
4.4.4. Entire Wetland Hydroperiod: Discuss the frequency and duration of flooding, ponding, and/or soil saturation
4.5. Surrounding Landuse of the Entire Wetland:
For example: Rural residential and forested; Agricultural and undeveloped
4.6. Relation of the Entire Wetland to Other Nearby Wetlands: Provide any information on wetlands or wetland complexes that are close enough to contribute to the overall function of the wetland in question.
4.7. Pre-project Cumulative Impacts to the Entire Wetland: Identify any cumulative ongoing impacts outside of the proposed project that may influence the wetland. Examples include but are not limited to: Wetland encroachments on and off the subject property, land use management in or surrounding the wetland, or development that influences hydrology or water quality. List any past Vermont Wetland Permits or CUD's related to this property.
5. Description of Subject Wetland and Buffer: Subject wetland is defined as the area of wetland in the project vicinity, but not limited to the portion of the wetland to be directly impacted by the project. For the purposes of this application, the subject wetland should encompass any portion of the wetland that could either be directly or indirectly impacted by the project, as defined by chemical, physical, or biological characteristics. This may include the entire wetland area, or wetland area off property. For multiple wetlands, fill out the multiple wetlands table.
5.1. Context of Subject Wetland: Describe where the subject wetland is in the context of the entire wetland described in section 4 above. For example: Upslope, narrow eastern "finger", 400 ft. from open water portion.
5.2. Subject Wetland Land Use: For example: Mowed lawn, old field, naturally vegetated. Describe any previous and ongoing disturbance in the subject wetland.
5.3. Subject Wetland Vegetation: List dominant wetland vegetation cover type and associated dominant plant species.
5.4. Subject Wetland Soils: Use the USDA NRCS information where possible and use the ACOE Delineation Manual soil description

5.5. Subject Wetland Hydrology:Use the description from the ACOE Delineation Manual

5.6. Buffer Zone: Describe the bu	uffer zone of the subject wetland (50	foot envelope of land adjacent to wetland boundary).
	Land Use:	
		ld field, paved road, and residential lawns, etc.
Descrik	be any previous and ongoing disturba	ance in the buffer zone.
5.6.2. Buffer	Vegetation:	
List the	e vegetation cover type and dominan	t plant species.
5.6.3. Buffer	Soils:	
Use US	SDA NRCS information where possib	ble, and the ACOE Delineation Manual soil description.
		fined in the Vermont Wetland Rules Section 5):
	ons are present in the entire wetland	
☐ Flood/Storm Stor	rage ndwater Protection	☐ RTE Species ☐ Education & Research
☐ Fish Habitat	idwater i Totection	☐ Recreation/Economic
☐ Wildlife Habitat		☐ Open Space/Aesthetics
☐ Exemplary Natur	ral Community	☐ Erosion Control
Functions and Values	: For each function and value:	
1 Ev	aluate the entire wetland and check	all that apply I las Matland Inventory Mans for affaits areas
	aluate the entire wetland and check a aluate how the wetland in the project	all that apply. Use Wetland Inventory Maps for offsite areas
	plain how the project will not result in	
·		·
Include	any information on specific avoidance	ce and minimization measures.
If more t	than one wetland complex is involved	d, provide a function and value checklist for
	tland complex. In addition fill out the	
	,	'
7. Water Storage for F	lood Water and Storm Runoff	
	and Black to be almosticed to America the	faller vices who sized and constative above statical
	and likely to be significant: Any of the provides this function	following physical and vegetative characteristics
maioato trio wettaria	provided the fariotion	
☐ Constricted outlet or no outlet and an unconstructed inlet.		
□ Dhysical and		
		nse, persistent, emergent vegetation or dense woody nwater runoff during peak flows and facilitates water
	evaporation and transpiration.	Twater ranion during pour nows and radinates water
•		
☐ If a stream is present, it's course is sinuous and there is sufficient woody vegetation to intercept surface		
flows in the	portion of the wetland that floods.	
☐ Physical evid	dence of seasonal flooding or ponding	ng such as water stained leaves, water marks on trees,
	ebris deposits, or standing water.	ig out at water stamps reares, water marks on troos,
☐ Hydrologic o	or hydraulic study indicates wetland a	attenuates flooding
If any of the above b	noves are checked the wetland	I provides this function. Complete the following to
		ove or below a moderate level. If none of the
	wetland provides this function	

Water Storage for Flood Water and Storm Runoff Continued
☐ Check this box if any of the following conditions apply that may indicate the wetland provides this function at a <i>lower</i> level.
☐ Significant flood storage capacity upstream of the wetland, and the wetland in question provides this function at a negligible level in comparison to upstream storage (unless the upstream storage is temporary such as a beaver impoundment).
☐ Wetland is contiguous to a major lake or pond that provides storage benefits independently of the wetland.
\square Wetland's storage capacity is created primarily by recent beaver dams or other temporary structures.
Wetland is very small in size, not contiguous to a stream, and not part of a collection of small wetlands in the landscape that provide this function cumulatively.
☐ Check this box if any of the following conditions apply that may indicate the wetland provides this function at a higher level.
\square History of downstream flood damage to public or private property.
☐ Any of the following conditions present downstream of the wetland, but upstream of a major lake or pond, could be impacted by loss or reduction of the water storage function.
 □ Developed public or private property □ Stream banks susceptible to scouring and erosion □ Important habitat for aquatic life
\square The wetland is large in size and naturally vegetated.
□ Any of the following conditions present downstream of the wetland, but upstream of a major lake or pond, could be impacted by a loss or reduction of the water storage function.
 □ Developed public or private property. □ Stream banks susceptible to scouring and erosion. □ Important habitat for aquatic life.
\square The wetland is large in size and naturally vegetated
☐ Any of the following conditions present upstream of the wetland may indicate a large volume of runoff may reach the wetland.
 □ A large amount of impervious surface in urbanized areas. □ Relatively impervious soils. □ Steep slopes in the adjacent areas.
7.1 Subject Wetland Contribution to Water Storage: Explain how the subject wetland contributes to the function listed above
7.2 Statement of No Undue Adverse Impact to <u>Water Storage for Flood Water and Storm Runoff</u> : Explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance, minimization, and compensation measures relevant to this function.

8. Surface and Ground Water Protection:
☐ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.
☐ Constricted or no outlets.
\square Low water velocity through dense, persistent vegetation.
☐ Hydroperiod permanently flooded or saturated.
\square Wetlands in depositional environments with persistent vegetation wider than 20 feet.
\square Wetlands with persistent vegetation comprising a defined delta, island, bar or peninsula.
□ Presence of seeps or springs.
$\hfill\square$ Wetland contains a high amount of microtopography that helps slow and filter surface water.
\square Position in the landscape indicates the wetland is a headwaters area.
☐ Wetland is adjacent to surface waters.
☐ Wetland recharges a drinking water source.
☐ Water sampling indicates removal of pollutants or nutrients.
☐ Water sampling indicates retention of sediments or organic matter.
☐ Fine mineral soils and alkalinity not low.
☐ The wetland provides an obvious filter between surface water or ground water and land uses that may contribute point or nonpoint sources of sediments, toxic substances or nutrients to the wetland, such as: steep erodible slopes; row crops; dumps; areas of pesticide, herbicide or fertilizer application; feed lots; parking lots or heavily traveled road; and septic systems.
If any of the above boxes are checked, the wetland provides this function. Complete the following to determine if the wetland provides this function above or below a moderate level. If none of the following apply, the wetland provides this function at a moderate level.
☐ Check this box if any of the following conditions apply that may indicate the wetland provides function at a <i>lower</i> level.
\square Presence of dead forest or shrub areas in sufficient amounts to result in diminished nutrient uptake.
\square Presence of ditches or channels that confine water and restrict contact of water with vegetation.
□ Wetland is very small in size, not contiguous to a stream, and not part of a collection of small wetlands in the landscape that provide this function cumulatively.
\square Current use in the wetland results in disturbance that compromises this function.
☐ Check this box if any of the following conditions apply that may indicate the wetland provides function at a <i>higher</i> level.
\Box The wetland is adjacent to a well head or source protection area, and provides ground water recharge.
☐ The wetland provides flows to Class A surface water. (Check ANR Atlas)
\Box The wetland contributes to the protection or improvement of water quality of any impaired waters.
\square The wetland is large in size and naturally vegetated.

8.1. Subject Wetland Contribution to Water Protection: Explain how the subject wetland contributes to the function listed above.
Explain now the subject wetland contributes to the function listed above.
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8.2. Statement of No Undue Adverse Impact to <u>Surface and Ground Water Protection</u> : Explain how the proposed project will not result in any undue, adverse impact to this function.
Include any avoidance, minimization, or compensation measures relevant to this function.
9. Fish Habitat:
☐ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.
Contains woody vegetation that overhangs the banks of a stream or river and provides any of the following: shading that controls summer water temperature; cover including refuges created by overhanging branches or undercut banks; source of terrestrial insects as fish food; or streambank stability.
 Provides spawning, nursery, feeding or cover habitat for fish (documented or professionally judged). Common habitat includes deep marsh and shallow marsh associates with lakes and streams, and seasonally flooded wetlands associated with streams and rivers.
\square Documented or professionally judged spawning habitat for northern pike.
 Provides cold spring discharge that lowers the temperature of receiving waters and creates summer habitat for salmonoid species.
The wetland is located along a tributary that does not support fish, but contributes to a larger body of water that does support fish. The tributary supports downstream fish by providing cooler water and food sources.
9.1. Subject Wetland Contribution to Fish Habitat: Explain how the subject wetland contributes to the function listed above.
9.2. Statement of No Undue Adverse Impact to <i>Fish Habitat</i> :
Explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance, minimization, or compensation measures relevant to this function.
molade any avoidance, minimization, or compensation measures relevant to this function.

10. Wildlife Habitat
☐ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.
 Provides resting, feeding staging or roosting habitat to support waterfowl migration, and feeding habitat for wading birds. Good habitats for these species include open water wetlands.
☐ Habitat to support one or more breeding pairs or broods of waterfowl including all species of ducks, geese, and swans. Good habitats for these species include open water habitats adjacent shallow marsh, deep marsh, shrub wetland, forested wetland, or naturally vegetated buffer zone.
Provides a nest site, a buffer for a nest site or feeding habitat for wading birds including but not limited to: great blue heron, black-crowned night heron, green-backed heron, cattle egret, or snowy egret. Good habitats for these species include open water or deep marsh adjacent to forested wetlands, or standing dead trees.
Supports or has the habitat to support one or more breeding pairs of any migratory bird that requires wetland habitat for breeding, nesting, rearing of young, feeding, staging roosting, or migration, including: Virginia rail, common snipe, marsh wren, American bittern, northern water thrush, northern harrier, spruce grouse, Cerulean warbler, and common loon.
 Supports winter habitat for white-tailed deer. Good habitats for this species include softwood swamps. Evidence of use includes browsing, bark stripping, worn trails, or pellet piles.
 Provides important feeding habitat for black bear, bobcat, or moose based on an assessment of use. Good habitat for these types of species includes wetlands located in a forested mosaic.
☐ Has the habitat to support muskrat, otter, or mink. Good habitats for these species include deep marshes, wetlands adjacent to bodies of water including lakes, ponds, rivers, and streams.
Supports an active beaver dam, one or more lodges, or evidence of use in two or more consecutive years by an adult beaver population.
☐ Provides the following habitats that support the reproduction of uncommon Vermont amphibian species including:
☐ Wood frog, Jefferson salamander, blue-spotted salamander, or spotted salamander. Breeding habitat for these species includes vernal pools and small ponds.
 Northern dusky salamander and the spring salamander. Habitat for these species includes headwater seeps, springs, and streams.
☐ The four-toed salamander, Fowler's toad, western or boreal chorus frog, or other amphibians, found in Vermont of similar significance.
Supports or has the habitat to support populations of Vermont amphibian species including, but not limited to, pickerel frog, northern leopard frog, mink frog, and others found in Vermont of similar significance. Good habitat for these types of species include large marsh systems with open water components.
Supports or has the habitat to support populations of uncommon Vermont reptile species including: wood turtle, northern map turtle, eastern musk turtle, spotted turtle, spiny softshell, eastern ribbonsnake, northern watersnake, and others found in Vermont of similar significance.
 Supports or has the habitat to support significant populations of Vermont reptile species, including smooth greensnake, DeKay's brownsnake, or other more common wetland-associated species.
☐ Meets four or more of the following conditions indicative of wildlife habitat diversity:
\square Three or more wetland vegetation classes (greater than 1/2 acre) present including but not

Wildlife Habitat Continued
limited to: open water contiguous to, but not necessarily part of, the wetland, deep marsh, shallow marsh, shrub swamp, forested swamp, fen, or bog.
☐ The dominant vegetation class is one of the following types: deep marsh, shallow marsh, shrub swamp or, forested swamp.
\square Located adjacent to a lake, pond, river or stream.
☐ Fifty percent or more of surrounding habitat type is one or more of the following: forest, agricultural land, old field or open land.
$\hfill\square$ Emergent or woody vegetation occupies 26 to 75 percent of wetland, the rest is open water.
☐ One of the following:
Hydrologically connected to other wetlands of different dominant classes or open water within 1 mile.
\square Hydrologically connected to other wetlands of same dominant class within 1/2 mile.
Within 1/4 mile of other wetlands of different dominant classes or open water, but not hydrologically connected.
☐ Wetland or wetland complex is owned in whole or in part by state or federal government and managed for wildlife and habitat conservation.
☐ Contains evidence that it is used by wetland dependent wildlife species
If any of the above boxes are checked, the wetland provides this function. Complete the following to determine if the wetland provides this function above or below a moderate level. If none of the following apply, the wetland provides this function at a moderate level.
☐ Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>lower</i> level.
☐ The wetland is small in size for its type and does not represent fugitive habitat in developed areas (vernal pools and seeps are generally small in size, so this does not apply).
☐ The surrounding land use is densely developed enough to limit use by wildlife species (with the exception of wetlands with open water habitat). Can be negated by evidence of use.
\square The current use in the wetland results in frequent cutting, mowing or other disturbance.
The wetland hydrology and character is at a drier end of the scale and does not support wetland dependent species.
☐ Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>higher</i> level.
\square The wetland is large in size and high in quality.
\square The habitat has the potential to support several species based on the assessment above.
\square Wetland is associated with an important wildlife corridor.
\square The wetland has been identified as a locally important wildlife habitat by an ANR Wildlife Biologist.

10.1. Subject Wetland Contribution to Wildlife Habitat Functions: Explain how the subject wetland contributes to the function listed above.
10.2. Statement of No Undue Adverse Impact to <u>Wildlife Habitat</u> : Explain how the proposed project will not result in any undue, adverse impact to this function.
Include any avoidance, minimization, or compensation measures relevant to this function.
11. Exemplary Wetland Natural Community
☐ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.
□ Wetlands that are identified as high quality examples of Vermont's natural community types recognized by the Natural Heritage Information Project of the Vermont Fish and Wildlife Department, including rare types such as dwarf shrub bogs, rich fens, alpine peatlands, red maple-black gum swamps and the more common types including deep bulrush marshes, cattail marshes, northern white cedar swamps, spruce-fir-tamarack swamps, and red maple-black ash seepage swamps are automatically significant for this function
The wetland is also likely to be significant if any of the following conditions are met:
Is an example of a wetland natural community type that has been identified and mapped by, or meets the ranking and mapping standards of, the Natural Heritage Information Project of the Vermont Fish and Wildlife Department.
\square Contains ecological features that contribute to Vermont's natural heritage, including, but not limited to:
☐ Deep peat accumulation reflecting a long history of wetland formation;
\square Forested wetlands displaying very old trees and other old growth characteristics;
\square A wetland natural community that is at the edge of the normal range for that type;
\square A wetland mosaic containing examples of several to many wetland community types; or
\square A large wetland complex containing examples of several wetland community types.
List species or communities of concern:
11.1. Subject Wetland Proximity to Exemplary Natural Communities
·
44.2 Statement of No Lindus Adverse Impact to Evennland Watland Natural Community
11.2. Statement of No Undue Adverse Impact to Exemplary Wetland Natural Community: Explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance, minimization, or compensation measures relevant to this function.

12. Rare, Threatened, and Endangered Species Habitat:
☐ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.
☐ Wetlands that contain one or more species on the federal or state threatened or endangered lists, as well as species that are rare in Vermont, are automatically significant for this function.
The wetland is also likely to be significant if any of the following apply:
☐ There is creditable documentation that the wetland provides important habitat for any species on the federal or state threatened or endangered species lists;
☐ There is creditable documentation that threatened or endangered species have been present in past 10 years;
☐ There is creditable documentation that the wetland provides important habitat for any species listed as rare in Vermont (S1 or S2 ranks), state historic (SH rank), or rare to uncommon globally (G1, G2, or G3 ranks) by the Natural Heritage Information Project of the Vermont Fish and Wildlife Department;
☐ There is creditable documentation that the wetland provides habitat for multiple uncommon species of plants or animals (S3 rank).
List name of species and ranking:
12.1. Subject Wetland Contribution to RTE Habitat: Explain how the subject wetland contributes to the function listed above.
12.2 Statement of No Undue Adverse Impact to Rare, Threatened, or Endangered Species Habitat: Explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance, minimization, or compensation measures relevant to this function.

13. Education and Research in Natural Sciences:
☐ Function is present and likely to be significant: Any of the following characteristics indicate the wetland provides this function.
\square Owned by or leased to a public entity dedicated to education or research.
☐ History of use for education or research.
☐ Has one or more characteristics making it valuable for education or research.
13.1. Subject Wetland Education and Research Potential: Explain how the subject wetland contributes to the function listed above.
Explain now the Subject wettand contributes to the function listed above.
13.2 Statement of No Undue Adverse Impact to Education and Research in Natural Sciences: Explain how the proposed project will not result in any undue, adverse impact to this value. Include any avoidance, minimization, or compensation measures relevant to this value.
14. Recreational Value and Economic Benefits:
☐ Function is present and likely to be significant: Any of the following characteristics indicate the wetland provides this function.
☐ Used for, or contributes to, recreational activities.
☐ Provides economic benefits.
☐ Provides important habitat for fish or wildlife which can be fished, hunted or trapped under applicable state law.
☐ Used for harvesting of wild foods.
Comments:
44.4. Outhings Westland Decreasional and Feenania Value
14.1. Subject Wetland Recreational and Economic Value: Explain how the subject wetland contributes to the value listed above.
14.2 Statement of No Lindus Adverse Import to Decreational Value and Economic Densites
14.2. Statement of No Undue Adverse Impact to <u>Recreational Value and Economic Benefits</u> : Explain how the proposed project will not result in any undue, adverse impact to this value.
Include any avoidance, minimization, or compensation measures relevant to this value.

15. Open Space and Aesthetics:
☐ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.
\square Can be readily observed by the public; and
☐ Possesses special or unique aesthetic qualities; or
\square Has prominence as a distinct feature in the surrounding landscape;
\square Has been identified as important open space in a municipal, regional or state plan.
Comments:
15.1. Subject Wetland Aesthetic Value: Explain how the subject wetland contributes to the value listed above.
15.2. Statement of No Undue Adverse Impact to Open Space and Aesthetics:
Explain how the proposed project will not result in any undue, adverse impact to this value. Include any avoidance, minimization, or compensation measures relevant to this value.
16. Erosion Control Through Binding and Stabilizing
☐ Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.
\square Erosive forces such as wave or current energy are present and any of the following are present as well:
 Dense, persistent vegetation along a shoreline or stream bank that reduces an adjacent erosive force.
\square Good interspersion of persistent emergent vegetation and water along course of water flow.
 Studies show that wetlands of similar size, vegetation type, and hydrology are important for erosion control.
What type of erosive forces are present?
☐ Lake fetch and waves
☐ High current velocities:
☐ Water level influenced by upstream impoundment

Erosion Control Through Binding and Stabilization Continued
If any of the above boxes are checked, the wetland provides this function. Complete the following to determine if the wetland provides this function above or below a moderate level. If none of the following apply, the wetland provides this function at a <u>moderate level</u> .
☐ Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>lower</i> level.
☐ The stream is artificially channelized and/or lacks vegetation that contributes to controlling the erosive force.
☐ Check box if any of the following conditions apply that may indicate the wetland provides this function at a <u>higher</u> level.
☐ The stream contains high sinuosity.
☐ Has been identified through fluvial geomorphic assessment to be important in maintaining the natural condition of the stream or river corridor.
16.1. Subject Wetland Contribution to Erosion Control: Explain how the subject wetland contributes to the function listed above.
16.2. Statement of No Undue Adverse Impact to <i>Erosion Control:</i>
Explain how the proposed project will not result in any undue, adverse impact to this function. include any avoidance, minimization, or compensation measures relevant to this function.
17. Project Description:
17.1. Overall Project Purpose:
Description of the basic project and why it is needed. Partial projects with no clear purpose will not be accepted.
For example: six-lot residential subdivision; expansion of an existing commercial building, building a single family residence.
17.2. Description of Project Component Impacting Wetland or Buffer:
Explain in general terms which portions of the project will impact wetlands or buffer zones. For example: Cross the wetland with a driveway to construct a residential subdivision, upgrade existing road through buffer to improve access, extend a trail system.

ve Application December 2015
17.3. Acreage of Parcel(s) or Easements(s): Acreage of subject property.
17.4. Acreage of Project Area: Acreage of area involved in the project.
Thirdage of area inverved in the project.
18. Project Details: Provide details regarding specific impacts to the wetland and buffer zone.
For multiple wetlands fill out the multiple wetland table.
18.1. Specific Impacts to Wetland and Buffer Zone Dimensions:
List portions of the project that will specifically impact the wetland or buffer zone and their dimensions. For example: driveway crossing with 16' wide fill; installation of buried sewer force main with 5' trench Including fill footprint; addition of Stormwater outfall which directs flow to northern portion of wetland
18.2. Bridges and Culverts:
Culvert circumference, length, placement and shapes, or bridge details. List any stream alteration permits that are required or obtained where perennial streams or rivers are involved.
18.3. Construction Sequence: Describe any details pertaining to the work planned in the wetland and buffer in terms of sequence or
phasing that is relevant. Describe the construction limits of disturbance, how those will be marked, and check to ensure these are shown on the site plans as well.
18.4. Stormwater Design** List any stormwater permits obtained or applied for. Describe stormwater and/or erosion controls proposed. ** Erosion prevention is required in order to prevent sediment from entering the wetland.
18.5. Permanent Demarcation of Limit of Impacts** Describe any boulders, fencing, signage, or other memorialization that provides permanent on-the-ground boundaries for the limits of disturbance for ongoing uses. **Permanent demarcations are required for projects with ongoing activities in or near wetlands or buffer zones such as houses, yards, woody clearing or parking areas, and needs to be depicted on the site plans.

19. Wetland and Buffer Zone Impacts:

For multiple wetlands provide narrative overview for each section below, and fill out the Multiple Wetland Tables

19.1. Wetland Impacts:

Summarize the square footage of impact in the appropriate category. Add After-the-Fact impacts here too. **Round to the nearest square foot**

Permanent Wetland Fill	s.f.
Temporary Wetland Impact	s.f.
Other Permanent Wetland Impact	s.f.
(this number includes clearing of woody	
vegetation, dredging, and does not include fill)	
Total Wetland Impact:	s.f.

Describe in detail the proposed impact to wetlands

For example: Fill for road crossing, temporary impacts for trench and fill related to utility installation.

General narrative required here even for projects with multiple wetlands and impacts

19.2. Buffer Zone Impacts:

Summarize the square footage of impact in the appropriate category.

Temporary Buffer Impact	s.f.
Permanent Buffer Impact	s.f.
Total Buffer Impact:	s.f.

Describe in detail the proposed impact to buffer zones

For example: Addition of fill along roadway embankment extending into buffer zone.

General narrative required here even for projects with multiple wetlands and impacts.

19.3. Cumulative Impacts:

List any potential cumulative or ongoing, direct and indirect impacts on the functions of the wetland. **For example:** Increased noise from parking lot, vegetation management, inputs from stormwater pond outlet, reduction in flood storage volume from the addition of fill from the project.

20. Mitigation Sequence: Before you begin, please read all of Section 20 to respond most appropriately to specific questions. Questions specifically related to Section 9.5b of the Vermont Wetland Rules.
20.1. Avoidance of Wetland Impacts:
20.1.1. Can the activity be located on another site owned or controlled by the applicant, or reasonably available to satisfy the basic project purpose? If not, indicate why. Cite any alternative sites and explain why they were not chosen.
20.1.2. Can the proposed activity be practicably located outside the wetland/buffer zone? If not, indicate why. Explain the alternatives you have explored for avoiding the wetland and buffer onsite, And why they are not feasible.
20.2. Avoidance to the Impact to Functions and Values:
20.2.1. If the proposed activity cannot be practicably located outside the wetland/buffer zone, have all practicable measures been taken to avoid adverse impacts on protected functions? ☐ Yes ☐ No
20.2.2. What design alternatives were examined to avoid impacts to wetland function? For example: Use of matting, relocation of footprint, etc.
20.2.3. What steps have been taken to minimize the size and scope of the project to avoid impacts to wetland functions and values? Include information on project size reduction and relocation.
20.2.4. Explain how the proposed project represents the least impact alternative design. Explain why other alternatives, which you described above, were not chosen.
20.3. Minimization and Restoration:
20.3.1. If avoidance of adverse effects on protected functions cannot be practically achieved, has the proposed activity been planned to minimize adverse impacts on the protected function? ☐ Yes ☐ No ☐ N/A
20.3.2. What measures will be used during construction and on an ongoing basis to protect the wetland and buffer zone? For example: Stormwater treatment, signs, fencing, etc.

Minimization and Restoration Continued					
20.3.3. Has a plan been developed for the prompt restoration of any adverse impacts on protected functions? ☐ Yes ☐ No ☐ N/A					
Restoration Narrative: For example: Planting along the stream.					
Quantification of Restoration:					
Wetland Area (sqft) Sqft) Functions/Value s Addressed					
20.4. Compensation:					
Please refer to Section 9.5c of the Vermont Wetland Rules for compensation, which is required when the project will result in net adverse impact to wetland function. Not all functions are presumed to be compensable. All projects requiring compensation need prior consultation with the Vermont Wetlands Program.					
If compensation is proposed please include a summary here. Also list any supporting documents you may have attached to the application including In-Lieu-Fee proposal or detailed compensation plan.					

21. Wetland Determination:
If the application involves a wetland determination please answer the following. For multiple wetlands provide
narrative overview for each section below, and fill out the Multiple Wetland Tables.
☐ Wetland is mapped or contiguous to the Vermont Significant Wetland Inventory Map
☐ Wetland is not mapped on or contiguous to the Vermont Significant Wetland Inventory Map
□ wettand is not mapped on or contiguous to the vermont significant wettand inventory map
21.1. Reason for Petition:
Please choose one from the dropdown menu.
21.2. Determination Narrative:
Please provide any narrative to support the petition for a wetland determination here, including
previous decisions by the Secretary or Water Board.
previous decisions by the decretary of water board.

22. Supportin	_	RIAL REQI	UIRED TO CALL A	PPLICATION COM	MPLETE	
	The Vermont	ation map t Natural Re	that is 8 ½" x 11" ar esources Atlas is ap ds at a minimum.		GS topography map base	e layer,
		Date			Title	
		ied below.			land delineation and buffe permanent memorializatio	n.
	Title			Author	Date	Date of Last Revision
22.2	**!! 6 Aum.	Carna of E	ingineer Wetland	Dalinastian Forms	·	
22.3.					s sampled, and number o	f paired plots
Attachme		Rang	e of Collection Dates	Vegeta	tion Cover Types	# of Paired Plots
	Examples in GIS shapefile	other docui clude but s, addition	mentation that supp		ements, agreements, rest	oration/plan,
Date	Last Re	vision	Author		Title	

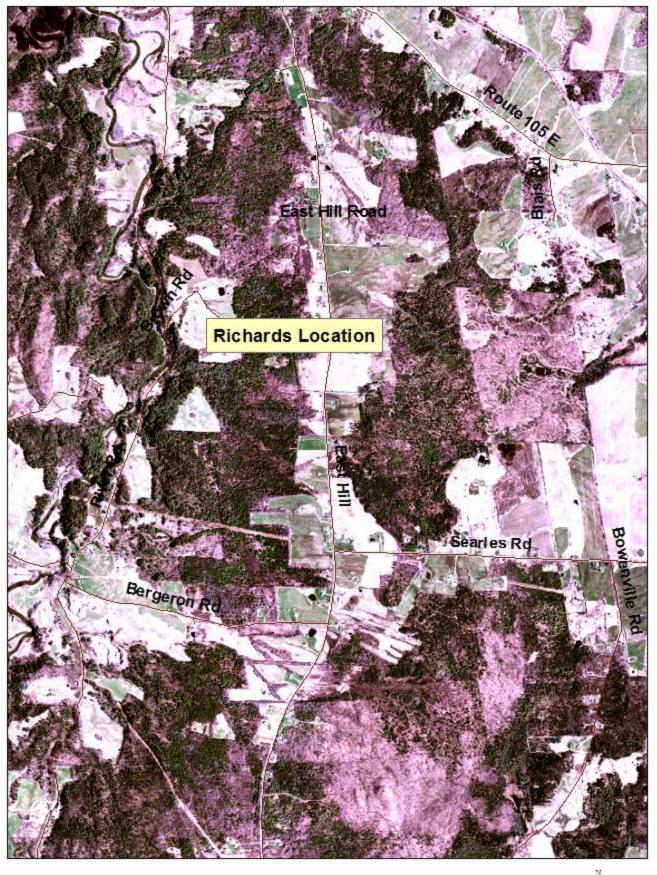
23. Abutting Landowners

Please provide abutting landowner information so that all persons owning property within, or adjacent to, the affected wetland area of buffer zone can be notified during the public notice period. **Please use additional sheets if necessary**.

23.1. Abutting Land Owner Information: Please list	as first names first followed by last name
1. Name:	16. Name:
Street/Road:	Street/Road:
City/State/Zip:	City/State/Zip:
2. Name:	17. Name:
Street/Road:	Street/Road:
City/State/Zip:	City/State/Zip:
3. Name:	18. Name:
Street/Road:	Street/Road:
City/State/Zip:	City/State/Zip:
4. Name:	19. Name:
Street/Road:	Street/Road:
City/State/Zip:	City/State/Zip:
5. Name:	20. Name:
Street/Road:	Street/Road:
City/State/Zip:	City/State/Zip:
6. Name:	21. Name:
Street/Road:	Street/Road:
City/State/Zip:	City/State/Zip:
7. Name:	22. Name:
Street/Road:	Street/Road:
City/State/Zip:	City/State/Zip:
8. Name:	23. Name:
Street/Road:	Street/Road:
City/State/Zip:	City/State/Zip:
9. Name:	24. Name:
Street/Road:	Street/Road:
City/State/Zip:	City/State/Zip:
10. Name:	25. Name:
Street/Road:	Street/Road:
City/State/Zip:	City/State/Zip:
11. Name:	26. Name:
Street/Road:	Street/Road:
City/State/Zip:	City/State/Zip:
12. Name:	27. Name:
Street/Road:	Street/Road:
City/State/Zip:	City/State/Zip:
13. Name:	28. Name:
Street/Road:	Street/Road:
City/State/Zip:	City/State/Zip:
14. Name:	29. Name:
Street/Road:	Street/Road:
City/State/Zip:	City/State/Zip:
15. Name:	30. Name:
Street/Road:	Street/Road:
StreevRoad: City/State/Zip:	City/State/Zip:
Gity/GiaiG/Zip.	Gity/Gtate/Zip.

24. Modified Distribution (Newspaper Notification): In situations where there is an application within a large wetland or
buffer zone that has a large number of landowners, applicants can choose to limit the distribution list with a
supplemental newspaper notification. At a minimum the applicant must 1) provide notice to immediate abutters,
2) provide notice to all persons owning property containing the wetland or buffer within 500 ft. of the project area, and
3) shall have the VWP publish notice of the application in a local newspaper generally circulating in the area where the
wetland is located. **The applicant will be billed directly by the newspaper listed. Use of newspaper notification
may extend the notice period, depending on when the notice posts in the newspaper**
Name of Newspaper(s)

Richards Location Map





Feet 0 750 1,500 3,000 4,500 6,000

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Kichard 5	City/County:		_ Sampling Date: <u> </u>
A No and O man		Cinto	Sampling Daints (DA)
Investigator(s):	Section, Townsl	nip, Range:	
Landform (hillslope, terrace, etc.):			
Slope (%): /- 2 Lat:			
Soil Map Unit Name:			
Are climatic / hydrologic conditions on the site typical for the			
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site map			•
Hydrophytic Vegetation Present? Hydric Soil Present? Yes Ves Ves	No Is the Sa within a	mpled Area	No
Remarks: (Explain alternative procedures here or in a se			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all	that apply)	Surface Soil	
	iter-Stained Leaves (B9)	Drainage Pat	
1 -	uatic Fauna (B13)	Moss Trim Li	· · ·
	rl Deposits (B15)	Dry-Season \	Vater Table (C2)
Water Marks (B1) Hy	drogen Sulfide Odor (C1)	Crayfish Burr	ows (C8)
Sediment Deposits (B2)	dized Rhizospheres on Living	Roots (C3) Saturation Vis	sible on Aerial Imagery (C9)
<u> </u>	sence of Reduced Iron (C4)		ressed Plants (D1)
1 — 0	cent Iron Reduction in Tilled S	· · · — ·	
l 	n Muck Surface (C7)	Shallow Aquit	· · ·
	ner (Explain in Remarks)	Microtopogra	· · · .
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral	Test (D5)
Field Observations: Surface Water Present? YesNoDe	epth (inches):		
l	epth (inches): /9'		
	epth (inches):	Wetland Hydrology Present	? Yes No
(includes capillary fringe)			1632110
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspe	ctions), if available:	
Remarks:			

VEGETATION -	Use	scientific	names	٥f	nlante
VEGETATION -	USE	SCIENTING	Hallies	OI.	piarits.

Sampling Point: 14 WET

	Absolute % Cover	Dominant Species?		Dominance Test worksheet:		
1. E Hem Buya Can		AT 1896	Fac Cy	Number of Dominant Species That Are OBL, FACW, or FAC:		(A)
2 3				Total Number of Dominant Species Across All Strata:		. ,
						(B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	2(3	(A/B)
6				Prevalence Index worksheet:		
7.	70			Total % Cover of:		_
Sasanite :	<u> = (/ :</u>	= Total Cov	er	OBL species x		
Sapling/Shrub Stratum (Plot size:)		710		FACW species x		
1. <u>N&NE</u>				FAC species x		
2				FACU species x		
3				UPL species x		
				Column Totals: (A	·)	_ (B)
5				Prevalence Index = B/A =	-	-
6				Hydrophytic Vegetation Indica	tors:	
7				Rapid Test for Hydrophytic \		
		= Total Cove		Dominance Test is >50%	-	
- interest of the second		- Total Cove	. 	Prevalence Index is ≤3.0¹		
Herb Stratum (Plot size:) 1. Orrolea Re wa	20	(2)	FACW	Morphological Adaptations ¹ data in Remarks or on a s	(Provide supporti	ng
2. ghic Strigh	10		obl.	Problematic Hydrophytic Ve)
3. Homelon	<u>Z.</u>			1		
4				¹ Indicators of hydric soil and wetl be present, unless disturbed or p	and hydrology mi roblematic.	ust
5			1	Definitions of Vegetation Strate	a:	
6 7			i	Tree – Woody plants 3 in. (7.6 cn at breast height (DBH), regardles	n) or more in dian	neter
8			i	Sapling/shrub – Woody plants le		4
9				and greater than 3.28 ft (1 m) tall.		•
10				Herb - All herbaceous (non-wood	ly) plants, regard	less
11				of size, and woody plants less tha	in 3.28 ft tall.	
12				Woody vines - All woody vines g	reater than 3.28	ft in
	32 =	Total Cove	r	height.		
Woody Vine Stratum (Plot size:)	TY	16				
,						İ
1						
2.						
3,				Hydrophytic		
				Vegetation Ves	No	
1.			ł	163	140	- 1
4	=	Total Cover	-			1
4				Present? Yes	No	

Sampling Point:

Profile Desc	ription: (Describe t	o the dept				or confir	m the absence of indicators.)	
Depth	Matrix Color (moist)	%	Redox Color (moist)	<u>Feature</u> %	SType ¹	Loc ²	TextureRemarks	
(inches)	2 1593/1		Color (moist)			LUC	/	
2-6		<u> </u>	10905 1Ca				SILI learn	
6-22	10903/2	30	1076216	3		<u>M</u>	Sut loan.	
				-				
		/						
							2.	
¹Type: C=Co Hydric Soil II	ncentration, D=Deple	etion, RM=I	Reduced Matrix, CS	=Covered	or Coate	d Sand Gi	Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :	
-			Polyvalue Below	Surface	(S8) /I RR	R	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
Histosol (pedon (A2)	-	MLRA 149B)	Curiacc	(00) (274)	. 14,	Coast Prairie Redox (A16) (LRR K, L, R)	
Black His		_	Thin Dark Surfac	æ (S9) (L	.RR R, ML	RA 149B		₹)
	Sulfide (A4)	_	Loamy Mucky M			L)	Dark Surface (S7) (LRR K, L)	
	Layers (A5)	(444)	Loamy Gleyed M)		Polyvalue Below Surface (S8) (LRR K, L)	
	Below Dark Surface k Surface (A12)	(A11) _	Depleted MatrixRedox Dark Surf				Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L,	D\
	ucky Mineral (S1)	-	Depleted Dark S		7)		Piedmont Floodplain Soils (F19) (MLRA 14	
	eyed Matrix (S4)	_	Redox Depression		,		Mesic Spodic (TA6) (MLRA 144A, 145, 149	
Sandy Re							Red Parent Material (TF2)	
	Matrix (S6)						Very Shallow Dark Surface (TF12)	
Dark Surf	ace (S7) (LRR R, MI	LRA 149B)					Other (Explain in Remarks)	
3Indicators of	hydrophytic vegetation	on and wetl	and hydrology must	be prese	nt, unless	disturbed	d or problematic.	
	ayer (if observed):							
Туре:	A \	72						
Depth (incl	nes):						Hydric Soil Present? YesNo	
Remarks:								
							•	
								1
								-
								- 1

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site:	had5	City/Cou	unty:		Sampling Date: _	<u> 1-20-1</u>
Applicant/Owner:				State:	Sampling F	Point:
Investigator(s):		Section				
Landform (hillslope, terrace, e						
Slope (%): Lat:						
Soil Map Unit Name:				•		
Are climatic / hydrologic condi	tions on the site typical t	for this time of year? Yes				
Are Vegetation, Soil	, or Hydrology	significantly disturbe	d? Are "Norma	ıl Circumstances" p	resent? Yes	Nổ
Are Vegetation, Soil	, or Hydrology	naturally problemation	? (If needed,	explain any answe	rs in Remarks.)	
SUMMARY OF FINDING	GS – Attach site n	nap showing samp	ling point location	ons, transects	, important fe	atures, etc.
Hydrophytic Vegetation Pres Hydric Soil Present? Wetland Hydrology Present?	Yes	No 4	s the Sampled Area vithin a Wetland? yes, optional Wetland	Yes		
HADBOLOGA						
HYDROLOGY				Connudant Indian	tous (minimum of t	
Wetland Hydrology Indicate		le all that anniel			tors (minimum of ty	vo requirea)
Primary Indicators (minimum			DO)	Surface Soil (• •	
Surface Water (A1) High Water Table (A2)		Water-Stained Leaves (Aquatic Fauna (B13)	D9)	Drainage Pate Moss Trim Lir	• •	
Saturation (A3)		Marl Deposits (B15)			Vater Table (C2)	
Water Marks (B1)		Hydrogen Sulfide Odor ((C1)	Crayfish Burre		
Sediment Deposits (B2)		Oxidized Rhizospheres				nery (C9)
Drift Deposits (B3)		Presence of Reduced In			essed Plants (D1)	
Algal Mat or Crust (B4)		Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic F	- · ·	
Iron Deposits (B5)		Thin Muck Surface (C7)		Shallow Aquit	ard (D3)	
Inundation Visible on Aer	ial Imagery (B7)	Other (Explain in Remar	ks)	Microtopograp	ohic Relief (D4)	
Sparsely Vegetated Cond	cave Surface (B8)	,		FAC-Neutral	Test (D5)	
Field Observations:						
Surface Water Present?	Yes No	Depth (inches):				
Water Table Present?	Yes No					
Saturation Present? (includes capillary fringe)	YesNo			lydrology Present	? Yes	No
Describe Recorded Data (stre	am gauge, monitoring v	ven, aenai priotos, pievio	ио піореснопо), ії ava	navie.		
Remarks:						
Tomario						
		•				

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Coation: PL=Pore Lining, M=Matrix, Hydric Soil Indicators: Indicators for Problematic Hydric Soil Soils: Indicators for Problematic Hydric Soil Present? (X1, L, R)	Profile Desc	cription: (Describe t	o the depti	needed to document the indicator or con	firm the absence	of indicat	ors.)	··· ·······
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. "Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. "Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Indicators for Problematic Hydric Soils": Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Indicators for Problematic Hydric Soils": Histosol (A1) MLRA 149B) Dark Surface (S9) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Redox Dark Surface (F2) Depleted Surface (F3) Depleted Below Dark Surface (F3) Iron-Manganese Masses (F12) (LRR K, L, F1) Pelymont Floodplain Soils (F19) (MLRA 148 F18) Redox Dark Surface (F3) Pelymont Floodplain Soils (F19) (MLRA 148 F18) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Polyser (Mark 149B) Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes			<u> </u>	Redox Features Color (moist) % Type ¹ Loc	2 Teyture		Pemarks	,
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Cocation: PL=Pore Lining, M=Matrix.	A-S	-142729					Nemana	
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Depth (inches): Hydric Soil Present? Yes No							1700	
	Туре:		1 2 mm	<u> </u>				
Remarks:	Depth (inch	nes):		_	Hydric Soil I	resent?	Yes	No

Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: OBL Species FACW species FACW species FAC species FACU species FACU species Column Totals: Column Totals: Cover Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species
Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species FACW species FACW species FACU spec
Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
Total % Cover of: Multiply by: OBL species
Cover OBL species
FACW species x 2 =
FAC species x 3 =
FACU species x 4 =
UPL species x 5 =
OPL species x 5 = Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
Prevalence Index = B/A =
— Rapid Test for Hydrophytic Vegetation Dominance Test is >50% — Prevalence Index is ≤3.0¹ — Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
Dominance Test is >50% — Prevalence Index is ≤3.0¹ — Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
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Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
add in Romand or on a separate sheety
www.i requiematic Hydrophytic Vedetation: (Explain)
Indicators of hydric soil and wetland hydrology must
be present, unless disturbed or problematic.
— — Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
 Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless
of size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 ft in
height.
5
<u> </u>
1
Hydrophytic
Hydrophytic Vegetation Present? Yes No

