# Page 19 Vermont Wetland Section

# Wetland Application Database Form

Applicant Name: McN	AFFIX IV INE FRU	Representative Name	Art Gilman	
Town where project is	s located: Hyde Park	County: Lamoille		
Project Location Description: 868 Vt Rte 15E Hyde Park				
911 Street Address or direction	from nearest intersection			
Project Summary:Rec	configuration of existing automatic and in the second second second second second second second second second s	tomobile dealership to in replacing building and s	nclude changing gravel parking	
Permit Type Requeste	(check all that apply)	replacing building and s	epiic system.	
	nit Coverage	and Determination $\square$	/ermont Wetland Permit	
Tetel Wetland Impact	Total up proposed impacts from wetland	tables listed below	0062 aguara fact (c.f.)	
Total Wetland Impact	-Osquare leet (s.i	.) Total Buller Zone Impac	t 9962 square leet (s.l.)	
Total Wetland Clearing	square feet (s.f	.) Total Buffer Zone Cleari	ng square feet (s.f.)	
Permit Fees: Make ch	eck payable to - State of V	ermont	(iny)	
Wetland Impact Fee: (\$0.	75/sf) \$ Admin	istrative Fee:	\$240	
Buffer Impact Fee: (\$0.25	/sf) \$2,490.50 Total (	Check Amount:	\$2,730.50	
Clearing Fee: (\$0.25/sf)	\$		n) Mindustrial/ commercial	
(check all that apply)				
Agriculture Trans	portation Darks/Rec/Tra	il  Residential (Single Family)	Institutional Undeveloped	
Proposed Land Use T	ype: Forestry	Residential	Industrial/ commercial	
│ (check all that apply)	enortation Parks/Pac/Trail	(Subdivision)		
		Family)		
Proposed Impact Typ	e: 🗌 Buildings 🗌 Util	ities 🛛 Parking 🗌 Sept	ic/Well 🛛 Stormwater	
Check all that apply)	Parks/Path		Pond 🗌 Lawn	
Wetland 1: A (Label usi	ng Wetland ID from application if applica	ble, Location: Next to	drive and parking on E	
use supplemental sheets if more	e than one wetland is being impacted)	side of entranc	e	
Wetland Turner DEM/D				
vvetiand Type: <b>PEW/P</b>	PO - Emergent avvil Size Class	sed Alterations		
Wotland Alteration:	Buffer Zone Alteration	Wotland Altoration	TVD0 (sheek all that apply)	
	S.T.			
Temporary:	s.f. Temporary: s.f	Cut Vegetation	⊠Stormwater —	
Permanent: :	s.f. Permanent: : 9962 s.f	Trench/Fill	⊠Other	
		Mitigation		
Avoidance and Minim (s.f. of wetland NOT impa	ization Wetland:	7860 s.f. Buffer Zone	16414 s.f.	
		-		
Wetland Mitigation: (s Restoration	<b>s.f. Gained)</b> s.f. Enhancement s.f.	Buffer Zone Mitigat Restoration	t <b>ion (s.f. Gained):</b> s.f. Enhancement s.f	
Creation	s.f. Conservation s.f	Creation	s.f Conservation s.f	

## Vermont Wetland Permit Application/Determination Petition

QUESTION		INSTRUCTIONS AND APPLICANT ANSWER		STAFF NOTE
1.	Applicant	If the applicant is someone other than the landowner, the landowner information must also be included below.		
	1.1. Applicant Name	McMahon Bros, LLC		
	1.2. Applicant Address	32 Vt. Rte. 15, Morrisville, VT 05661		
	1.3. Applicant Phone	1-802-888-4942		
	Number			
	1.4. Applicant Email	steve@mcmahonchevrolet.com	07. 101101000000000000000000000000000000	
	1.5. Applicant Signature	By signing this application you are certifying that all the	information	
	(original signature required)	contained within is true, accurate, and complete to the b	est of your	
		knowledge.		
		$\langle \bigcirc$	Date:	
		, Sellia	11-20-15	
		Consultant engineer for other representative that is rest	ponsible for filling out	
2.	Representative	this application, if other than the applicant or landowner		
	2.1. Representative Name	Arthur V. Gilman		
	2.2. Representative Address	Gilman & Briggs Environmental, 1 Conti Circle, Suite 5,	Barre, VT 05641	
	2.3. Representative Phone	802-479-7480		
	Number			
	2.4. Applicant Email	gbenvironmental@earthlink.net		
<u> </u>	2.5 Poprosoptativo	By signing this application you are certifying that all the i	nformation	
	2.5. Representative	contained within is true, accurate, and complete to the b	est of your	
	(original signature required)	knowledge.		
	(original signature required)		Date:	
		x Cuture V. D. human	20 Nov 2015	
2	Landownor	Landowner must sign the application. Use this space if	landowner is	
<u> </u>		different from the applicant		
	3.1. Landowner Name	Same as applicant		
	3.2 Landowner Address	Same as applicant		
	3.3. Landowner Phone	Same as applicant		
	Number			
	3.4. Landowner Email	Same as applicant		
	3.5. Landowner Easement	Attach copies of any easements, agreements or other do	ocuments conveying	
		permission, and agreement with the landowner stating w	ho will be	
		responsible for meeting the terms and conditions of the p	permit. List the	
	3.6 Landowner Signature	By signing this application you are certifying that all the i	nformation	
	(original signature required)	contained within is true, accurate, and complete to the be	est of your	
	(onginal orginatare required)	knowledge.	The parameters	
	$\langle$		Date:	
		- Saya	11-20-15	
1	Logation of Wotland and	Location description should include the road the wotland	is located on the	
4.	Project	compass direction of the wetland in relation to the road.	911 street address if	
	r TOJ <del>O</del> CI	available, and any other distinguishing geographic featur	res.	
		South side of Vt. Rte. 15, at 868 Rte. 15, town of Hyde P	ark, just W of the	
		village of Morrisville and Morristown/Hyde Park town line		

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5. Site Visit Date and Attendees	Date of visit with District Wetlands Ecologist	List people present for site visits including Ecologist, landowner, and representatives.		
	24 May 2015	Arthur V. Gilman (Representative); Shannon Morrison (District Wetland Ecologist)		
6. Wetland Classification	The wetland is a Class II we	etland because (Choose one):		
	The wetland meets the presumption of significance			
7. Description of Entire Wetland or Wetland Complex	Answer the following questi complex. A wetland complet types that are contiguous a wetland in the project area	Answer the following questions regarding the entire wetland or wetland complex. A wetland complex is generally defined as two or more wetland types that are contiguous and interrelated. Specific questions about the wetland in the project area will follow.		
7.1. Size of Wetland Complex in Acres	Can be obtained from the E wetlands Ca. 0.6 acre	nvironmental Interest Locator Map for mapped		
7.2. Natural Community Types Present	List all wetland types in the or relative abundance. For or 30% scrub swamp, 70% 25% forested; 75% shallow	wetland or wetland complex and their abundance example: 50 acres of softwood forested swamp; emergent wetland marsh (emergent - wet meadow type)		
7.3. Landscape Position	Where is the wetland locate basin, edge of a stream, sh Shallow basin and along st	ed on the landscape? Examples: bottom of a ore of a lake, etc. ream		
7.4. Wetland Hydrology	Describe the main source of any river, streams, lakes an Groundwater discharge and	of wetland hydrology for the wetland complex. List ad ponds.		
	Include answers to the follo	wing where appropriate:		
7.4.1. Direction of flow	For example: stream flows Intermittent stream flows to	from north to south through the wetland complex. NW and is culverted under the drive to a		
7.4.2 Influence of	For example: The river prov	vides flood water to the wetland in the spring		
hydrology on wetland complex	High groundwater table, str	eam drains area.		
7 4 3 Relation to the	Distance between the proje	ct area and any nearby surface waters.		
project area	The wetland is adjacent to to toward the wetland.	the proposed work area, some of which drains		
7.4.4. Hydroperiod	Discuss frequency and dura Wetland appears to be perr margins are like to be only intermittent (i.e., without co to a ditch at the lower end.	ation of flooding, ponding, and/or soil saturation. manently saturated although upper (uphill) seasonally saturated; the stream is likely ntinuous year-round flow); the wetland is confined		
7.5. Surrounding Landuse of the Wetland Complex	For example: rural resident Wetland is in a semi-indust area, residences and busin	ial and forested; agricultural and undeveloped, rial area with old-field / woodlands south of the esses on the east and north.		
7.6. Relation to Other Nearby Wetlands	Provide any information on enough to contribute to the Drains to a manmade pond Class Three wetlands contr contribute any functionality.	wetlands or wetland complexes that are close overall function of the wetland in question. , although separated by the driveway; two small ibute to some flows by a curtain drain but do not		
7.7. Pre-project Cumulative Impacts to the Wetland	Identify any cumulative ong influence the wetland. Exar encroachments off the subj the wetland, or developmen There has been some fill ov adjacent (not subject) prope work, is channelized. Rund quality and impacting wetla	oing impacts outside of the project that may nples include but are not limited to wetland ect property, land management in or surrounding ht that influences hydrology or water quality. /er time for parking and other uses, especially on erty, and the stream, in the area of the proposed off from unpaved areas may be degrading water nd functions.		
8. Description of Subject	Subject Wetland is defined	as the area of wetland in the project area, but not		

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Wetland	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 larger wetland or wetland complex that could be directly or indirectly impacted by the project, as defined by hydrology, vegetation and/or physical characteristics.	
8.1. Context of Subject Wetland	Describe where the subject wetland is in the context of the larger wetland or wetland complex described above. No direct impacts are proposed to the wetland	
8.2. Wetland Landuse	For example: mowed lawn; old field; naturally vegetated. Describe any previous and ongoing disturbance in the subject wetland. Not applicable	
8.3. Wetland Vegetation	List dominant wetland community type and associated dominant plant species. Not applicable	
8.4. Wetland Soils	Use USDA NRCS information where possible and use the ACOE Delineation Manual soil description Soils are mapped as Boothbay silt loam and inspection showed them to be silt loam, with oxidized rhizospheres and a depleted matrix	
8.5. Wetland Hydrology	Use descriptions from the ACOE Delineation Manual.	
8.6. Buffer Zone	Describe the buffer zone of the subject wetland including:	
8.6.1. General landuse	For example: mowed road shoulder; forested; old field; paved road and residential lawns etc. Describe any previous and ongoing disturbance in the buffer zone. Unpaved parking lot and old field; some old ditching around unpaved parkio, old field; forest strip (between parking and wetland); industrial (on adjacent parcel). Further distant: forest.	
8.6.2. Buffer vegetation	List community type and dominant plant species Old field, forest strip. Poplars, firs, apple, black cherry. Tall goldenrod, Kentucky bluegrass, and a mix of other old-field ehrbs. Sensitive fern. But much of the buffer where impact will be is bare gravel.	
8.6.3. Buffer soils	Use USDA NRCS information where possible, and the ACOE Delineation Manual soil description Buffer soils are mapped as Boothbay silt loam and inspection showed them to be similar to the wetland soils, a silt loam, but with only faint - not prominent or distinct - redox features	

9. Wetland Determination	If the application involves a wetland determination please answer the	
	following. If not, skip to Section 10.	
9.1. Reason for Petition	Please choose one from the dropdown menu:	
	Add a Section 4.6 presumed wetland to the VSWI map	
9.2. Previous Decisions	Please list all determinations and decisions, if any, issued by the Secretary, Panel or former Water Resources Board, pertaining to the wetland or buffer at issue:	
9.3. Narrative	Please provide any narrative to support the petition for a wetland determination here. This section is not required for petitions to add a Section 4.6 presumed wetland to the VSWI map, but is required for all other petitions.	
If the application is only for a W	etland Determination only, skip to Section 13	

10. Project Description

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10.1.Overall Project	Description of the project. For example: six-lot residential subdivision; expansion of an existing commercial building, access drive to a single family residence.	
	The project is a rehabilitation of an existijng automobile dealership, which includes converting existing unpaved parking areas to properly graded and paved parking, reconstruction of the existing sales building, addition of an	
	approved, properly size, on-site septic system, and, importantly, stormwater infrastructure including swales and a stormwater retention pond	
10.2.Project Purpose	For example: To construct a residential subdivision, upgrade existing road to	
, ,	improve access, extend a trail system	
	To provide a more adequate, safe, and environmentally protective infrastructure at an existing automobile dealership, to include wasterwater treatment, paved parking and stormwater management	
10.3.Acres Owned by	Acreage of subject property.	
Applicant	6.04	
10.4. Acres Involved in the	Acreage of area involved in the project.	
Project	4.8	
11. Project Details	Provide details regarding specific impacts to the wetland and buffer zone	
11.1.Specific Impacts to	List portions of the project that will specifically impact the wetland or buffer	
	There are no direct impacts to the wetland - closest approaches will be for a	
2016	stormwater swale outfall, and for a culvert replacement, both near the lower (downstream) end of the wetland.	
	The area of impact in the buffer zone is 9962 sq, ft, which includes:	
	formalized, paved parking. There will be minor regrading of the surface, and	
	a grassed stormwater treatment swale - all within the limits of the former	
	disturbance/open area and resulting in no cutting of trees.	
11.2.Dimension Details	Square footage of buildings, dimension of roads including fill footprint.	
	The proposed buildings will be 15,400 sq. ft. Parking will be sufficient for 176 vehicles	
11.3.Bridges and Culverts	Culvert circumference, length, placement and shapes, or bridge details.	
	The culvert to be replaced is 2' (24") x 64'.	
11.4.Construction Sequence	Describe any details pertaining to the worked planned in the wetland and buffer in terms of sequence or phasing that is relevant	
	1) Placement of silt fence at limit of disturbance;	
	and mulching of disturbed soils in the swales:	
	3) Culvert replacement	
	4) Construction of buildings, etc. outside the wetland and buffer	
11.5 Stormwater Design	5) Finish grade and paving	
11.3.5tomwater Design	stormwater and/or erosion controls proposed to prevent discharges to the wetland and buffer zone.	
	A Vermont Stormwater permit is being applied for; the project includes	
	planned will - for the area near the wetland - be diverted through and treated	
	in grassed swales, with the outfall at the lower end of the system, just above	
	above the driveway culvert. Thus, untreated flow that may now reach the wetland system will be treated and will not reach the wetland. This	
	stormwater treatment mostly is outside the buffer zone but some will be	
	within the buffer zone - but only in the currently disturbed area. Stormwater	
	rom elsewhere on the site will be diverted to a treatment pond in what is now lawn, not near the Class Two wetland	
11.6.Permanent	Describe any plantings, fencing, signage, or other memorialization that	
	provides permanent on-the-ground boundaries for the limits of disturbance	

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Demarcation of Limits	for ongoing uses.		
of Impact	Several red maple trees (Acer x freema	ppii 'Armstrong') will be planted in	
	the buffer zone, which will form permane	nt markers: the sculpted land	
	surface of the drainage swale will also in	hibit encroachment.	
12 Wetland and Buffer Zone			
Impacts			
12.1.Wetland Impacts	Summarize the square footage of impact	t in the appropriate category. If	
	supplemental wetland sheets.	the that information and use the	
	Totals		
	Wetland Fill	0 s.f.	
	Temporary Wetland Impact	0 s.f.	
	Other Permanent Wetland Impact	0 s.f.	
	Describe in detail the proposed impact.		
	No impacts are proposed in the wetland.		
40.0 Duffer Zere kerneste	Summarize the square feetage of impact	t in the enprenriete exterence of	-
12.2.Buffer Zone Impacts	more than one wetland is impacted, prov	in the appropriate category. If	
	supplemental wetland sheets.		
	Tatala		
	Temporary Buffer Impact	0 s f	
	Permanent Buffer Impact	9962 s.f.	
			-
	Describe in detail the proposed impact.		
	This includes two types of impacts - 1) p	acement of a stornwater treatement	
	swale and, 2) an area to be regraded and	d paved, to replace existing unpaved	
	informal gravel parking area but some of	the existing entrance road surface.	
	······································		
12.3.Cumulative Impacts	List any potential cumulative or ongoing,	direct and indirect impacts on the	
	functions of the wetland that could result	from the proposed project.	
	stormwater runoff for the water quality fu	nction of the wetland.	
12.4.Avoidance and	Please refer to Section 9.5b of the rules	on Mitigation Sequencing for this	
Minimization	section.		
12/1 Avoidance	Can the proposed activity be practicably	located outside the wetland/buffer	
	zone, or on another site owned or contro	lled by the applicant or reasonably	
	available to satisfy the basic project purp	ose? If not, indicate why. This	
	answer should include any examination of	of alternatives that you have	
	altering the project design.	, requesting easements, and	
	The automobile dealership necessarily re	equires parking for a large number of	
	vehicles. The site is limited, especially to	ward the main road, by a manmade	
	pond. The only significantly sized areas	of upland on the parcel are 1)	
	proposed on-site septic system and 3) de	edicated to other parking (in front of	
	the building and 4) dedicated to additiona	al stormwater treatment facilities.	
	Original plans to replace the driveway cu	lvert in a slightly different area wer	
	changed, eliminating about 50 sq. ft. of w	vetland impact.	
	in the proposed activity carmot practicable	y be located outside the	

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12.4.3 Mitigation	<ul> <li>wetland/buffer zone, have all practicable measures have been taken to avoid adverse impacts on protected functions? Please include any information on on-site alternatives that have been examined; minimizing the size and scope of the project to avoid impacts; or relocating portions of the project to avoid impacts</li> <li>The area of temporary disturbance for the stormwater swale will be promptly seeded and mulched.</li> <li>Original plans to replace the driveway culvert in a slightly different (adjacent) area were changed, eliminating about 50 sq. ft. of wetland impact.</li> </ul>	
	achieved, has the proposed activity has been planned to minimize adverse impacts on the protected functions and a plan has been developed for the prompt restoration of any adverse impacts on protected functions? Include any information on best management practices to be used for the project both for the initial construction and ongoing use. Also include any proposed restoration of temporary impacts, previously disturbed wetland or buffer zones or proposed conservation that are being used to offset the proposed impacts.	
12.4.4. Compensation	Please refer to Section 9.5c of the rules for compensation, which is appropriate when the project will result in an undue adverse impact. If compensation is proposed please include a summary here.	
	No compensation is proposed.	
13. Supporting materials	Where appropriate list the accompanying material by title, author, date and last revision date. Submit these documents and plans with the application.	
13.1.Location map	<ul> <li>Provide a project location map that is 8 ½" x 11" and reproducible in black and white. An Environmental Interest Locator Map is appropriate using the USGS topography map base layer, roads, and VSWI wetlands at minimum.</li> <li>Please see the attached location maps:</li> <li>1) location on a USGS topographic map and 2) location on a graphic from the Vermont Natural Residurces Atlas</li> </ul>	
13.2.Site Plans	<ul> <li>List by title, author, date and last revision date. Plans should include wetland delineation and buffer zones, limits of disturbance, erosion controls, building envelopes and permanent memorialization.</li> <li>1) Wetland Impact Plan, C5, Chenette Associates, PC, 11/18/2015</li> <li>2) Overall Site Plan, C2, Chenette Associates, PC, 11/11, 2015</li> <li>2) Planting Plan, Cynthia Knauf, 11/05/2015</li> </ul>	
13.3.ACOE Delineation Forms	List by author, location, and date. Required only for Individual Permits. Arthur V. Gilman & Errol Briggs, 6 May 2015; note this is for a small nearby Class 3 wetland on this property	
13.4.Other Supporting Documents	Provide any other documentation that supports the application. List photographs; easements; agreements; may include a GIS-compatible wetland submittal for determinations; etc. None	
13.5.List of Abutters (Neighbors with land adjoining wetland or buffer zone)	<ul> <li>Attach list of names and mailing addresses or submit as word mailing document.</li> <li>1) Parcel 012-015-001</li> <li>Clint Coakley, Rachel Coakley 992 VT Route 15 East Hyde Park, VT 05655</li> <li>2) Parcel 012-015-005 Fred's Plumbing and Heating 328 Main Street Derby, VT 05829</li> </ul>	

13.5.1. Newspaper Notification	If choosing the option to fulfill the notice requirement with a newspaper notice, list the newspaper to be used here. A list of names and addresses for immediately adjacent landowners (500 foot radius) of the project area is required for the List of Abutters. <b>***NOTE: The applicant will be billed</b> <b>directly by the newspaper you list here. Use of newspaper notification</b> <b>may extend the notice period, depending on when the notice posts in</b> <b>the newspaper.</b>						
	Wetland Fu	nction S	ummarv.	(if more than on	e wetland u		
	supplemental v	vetland she	eets)				
	Functions & Values	Subject Wetland	Wetland Complex	Functions & Values	Subject Wetland	Wetland Complex	-
14 Chack Which Eurotiana are	Flood/Storm Storage	$\boxtimes$	$\boxtimes$	RTE Species			
Present in the Subject Wetland and in the Wetland	Surface & Groundwater Protection		$\boxtimes$	Education & Research			
Complex.	Fish Habitat			Recreation/ Economic			
	Wildlife Habitat			Open Space/ Aesthetics			
	Exemplary Natural Community			Erosion Control			
15.Coverage under Vermont General Wetland Permit	Determinati the remaining If applying f Wetland Pe submitting	on, pleas ng applic for Cove rmit, plea applicati	se procee cation que rage unde ase comp on.	ed to number estions. er the Vermo plete questio	nt Gener n 15.1 pri	answer al or to	
15.1.VWP Vermont General	If applying for on verify the follow	coverage u ving to com	nder the Ve plete the ap	rmont General V	Vetland Per	mit, please	
checklist	The activity Vermont Gen	/ qualifies eral Wetla	as an eligi and Permit	ble activity for	coverage ι	under the	
	The proposition proposed prop	sed projec ject in the	t will meet Vermont V	the conditions Vetland Generation	applicable al Permit	to the	
	The activity the Vermont V	/ does not Wetland R	: qualify as tules.	an Allowed Us	e under S	ection 6 of	
	The activity wetland funct to protect func	/ will not r ions and v ctions and	esult in an ⁄alues, nor I values.	undue adverse does it need a	e impact or Idditional c	n protected onditions	
	All impacts extent possib	s have bee le.	en avoided	and minimized	d to the gre	eatest	
	The wetlan Wetland Natu Endangered S	id complex iral Comm Species H	x is not sigi iunity or 5.6 abitat.	nificant for Fun 6 Rare, Threat	iction 5.5 E ened and	Exemplary	
	The activity	/ is not loc	cated in or a	adjacent to a v	ernal pool,	fen, or	

	bog.	
	The wetland is not at or above 2,500' in elevation (headwaters wetland).	
	The project is not located in a Class I wetland or associated buffer zone.	
	The activity is not an as-built project that constitutes a violation of the Vermont Wetland Rules.	
Stop hare if applying for Covora	age under the Verment General Wetland Permit	

#### Stop here if applying for Coverage under the Vermont General Wetland Permit

Complete the following Functio	ns and Values checklist if applying for an Individual Wetland		
Functions and Values	For each Function and Value, first evaluate the entire wetland or <b>wetland</b> <b>complex</b> and check all that apply. Secondly, evaluate how the wetland in the project area contributes to that function. Thirdly explain how the project will not result in adverse impacts to this function. Include any information on specific avoidance and minimization measures. If more than one wetland complex is involved, use the Supplemental		
16. Storage for Flood Water and Storm Runoff	<ul> <li>Wetland Forms.</li> <li>Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.</li> </ul>		
	Constricted outlet or no outlet and an unconstricted inlet.		
	Physical space for floodwater expansion and dense, persistent, emergent vegetation or dense woody vegetation that slows down flood waters or stormwater runoff during peak flows and facilitates water removal by evaporation and transpiration.		
	If a stream is present, its course is sinuous and there is sufficient woody vegetation to intercept surface flows in the portion of the wetland that floods.		
	Physical evidence of seasonal flooding or ponding such as water stained leaves, water marks on trees, drift rows, debris deposits, or standing water.		
	Hydrologic or hydraulic study indicates wetland attenuates flooding.		
	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.		
	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		

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	storage benefits independently of the wetland.	
	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 box if any of the following conditions apply that may indicate the wetland provides this function at a <i>higher</i> level.	
	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 a loss or reduction of the water storage function.	
	1. Developed public or private property.	
	<ul><li>2. Stream banks susceptible to scouring and erosion.</li></ul>	
	3. Important habitat for aquatic life.	
	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.	
	<ul> <li>1. A large amount of impervious surface in urbanized areas.</li> </ul>	
	2. Relatively impervious soils.	
	<ul><li>3. Steep slopes in the adjacent areas.</li></ul>	
16.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed	
	The contribution of this wetland to flood storage is minor. Although it has a constricted outlet, the catchment area is small and the slope is such that there is not much physical storage capacity, which is essentially limited to the ditch area	
16.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function.	
	Runoff to the area will not be increased, and there is no displacement of capacity by fill within the wetland, so there will be no undue adverse impact to this function.	
17. 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.	
	Low water velocity through dense, persistent vegetation.	
	Hydroperiod permanently flooded or saturated.	
	Wetlands in depositional environments with persistent vegetation wider than 20 feet.	
	Wetlands with persistent vegetation comprising a defined	

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	delta, island, bar or peninsula.	
	Presence of seeps or springs.	
	Wetland contains a high amount of microtopography that helps slow and filter surface water.	
	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 box if any of the following conditions apply that may indicate the wetland provides this function at a <i>lower</i> level.	
	Presence of dead forest or shrub areas in sufficient amounts to result in diminished nutrient uptake.	
	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.	
	Current use in the wetland results in disturbance that compromises this function.	
	Check box if any of the following conditions apply that may indicate the wetland provides this function at a <i>higher</i> level.	
	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 waters.	
	The wetland contributes to the protection or improvement of water quality of any impaired waters.	
	The wetland is large in size and naturally vegetated.	
17.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed	

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	above				
	Probable cumulative input from pre-existing uses; captures sediments and nutrients. Note - wellheads are nearby but wetland is not characterized by recharge.				
17.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. This project will ameliorate pre-existing inputs to the wetland.				
18. Fish Habitat	<ul> <li>Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.</li> <li>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.</li> <li>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.</li> <li>Documented or professionally judged spawning habitat for northern pike.</li> <li>Provides cold spring discharge that lowers the temperature of receiving waters and creates summer habitat for salmonoid species.</li> <li>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</li> </ul>				
	by providing cooler water, and food sources.				
18.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above This wetland does not contribute to this function as the ditched, intermittent stream passes 1) through an unshaded, manmade pond (which likely obviates the benefits of shade along the wetland margin, and 2) through an existing culvert about 200' long before reaching a natural blueline stream.				
18.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. There will be no cutting of trees in the buffer zone or along the stream, and by improving water quality the project will benefit downstream fish habitat.				
19. Wildlife Habitat	<ul> <li>Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.</li> <li>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.</li> <li>Habitat to support one or more breeding pairs or broods of</li> </ul>				

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	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 these species include softwood swamps. Evidence of use includes deer 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:
	1. Wood Frog, Jefferson Salamander, Blue-spotted Salamander, or Spotted Salamander. Breeding habitat for these species includes vernal pools and small ponds.
	<ul> <li>2. Northern Dusky Salamander and the Spring Salamander. Habitat for these species includes headwater seeps, springs, and streams.</li> </ul>
	3. 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 significant 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 includes large

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		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:
		1. Three or more wetland vegetation classes (greater than 1/2 acre) present including but not limited to: open water contiguous to, but not necessarily part of, the wetland, deep marsh, shallow marsh, shrub swamp, forested swamp, fen, or bog;
		2. The dominant vegetation class is one of the following types: deep marsh, shallow marsh, shrub swamp or, forested swamp;
		$\boxtimes$ 3. Located adjacent to a lake, pond, river or stream;
		<ul> <li>4. Fifty percent or more of surrounding habitat type is one or more of the following: forest, agricultural land, old field or open land;</li> </ul>
		5. Emergent or woody vegetation occupies 26 to 75 percent of wetland, the rest is open water;
		$\boxtimes$ 6. One of the following:
		<ul> <li>i. hydrologically connected to other wetlands of different dominant classes or open water within 1 mile;</li> </ul>
		ii. hydrologically connected to other wetlands of same dominant class within 1/2 mile;
		iii. 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; and
		Contains evidence that it is used by wetland dependent wildlife species.
	If an func prov of th mod	ny of the above boxes are checked, the wetland provides this ction. Complete the following to determine if the wetland vides this function above or below a moderate level. If none he following apply, the wetland provides this function at a derate level.
	Chec	eck box if any of the following conditions apply that may

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	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.			
	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.			
	The wetland complex is large in size and high in quality.			
	The habitat has the potential to support several species based on the assessment above.			
	Wetland is associated with an important wildlife corridor.			
	The wetland has been identified as a locally important wildlife habitat by an ANR Wildlife Biologist.			
19.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed aboveThe subject wetland does not contribute to this function.			
19.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. There will be no undue adverse impacts to wildlife.			
20. 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.			
	Contains ecological features that contribute to Vermont's			

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	natural heritage, including, but not limited to:			
	Deep peat accumulation reflecting a long history of wetland formation;			
	<ul> <li>Forested wetlands displaying very old trees and other old growth characteristics;</li> </ul>			
	A wetland natural community that is at the edge of the normal range for that type;			
	A wetland mosaic containing examples of several to many wetland community types; or			
	A large wetland complex containing examples of several wetland community types.			
	List species or communities of concern:			
20.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above The subject wetland is not a significant natural community			
20.2 Statement of no undue	Please explain how the proposed project will not result in any undue			
adverse impact	adverse impact to this function. Include any avoidance and minimization measures relevant to this function. There will be no undue adverse impacts.			
24 Dave 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;			
	<ul> <li>There is creditable documentation that threatened or endangered species have been present in past 10 years;</li> </ul>			
	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:			
21.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above			

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	There are no known or observed rare, threatened, endangered, or uncommon species on this site.				
21.2.Statement of no adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization neasures relevant to this function. There will be no undue adverse impact.				
22. Education and Research in Natural Sciences	<ul> <li>Function is present and likely to be significant: Any of the following characteristics indicate the wetland provides this function.</li> <li>Owned by or leased to a public entity dedicated to education or research.</li> <li>History of use for education or research.</li> <li>Has one or more characteristics making it valuable for education or research.</li> </ul>				
22.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above The wetland is not significant for this function.				
22.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. There will be no undue adverse impacts.				
23. Recreational Value and Economic Benefits	<ul> <li>Function is present and likely to be significant: Any of the following characteristics indicate the wetland provides this function.</li> <li>Used for, or contributes to, recreational activities.</li> <li>Provides economic benefits.</li> <li>Provides important habitat for fish or wildlife which can be fished, hunted or trapped under applicable state law.</li> <li>Used for harvesting of wild foods.</li> <li>Comments:</li> </ul>				
23.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed above This wetland is not significant for this function.				
23.2.Statement of no undue adverse impact	Please explain how the proposed project will not result in any undue, adverse impact to this function. Include any avoidance and minimization measures relevant to this function. There will be no undue adverse impacts.				
24. Open Space and Aesthetics	<ul> <li>Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.</li> <li>Can be readily observed by the public; and</li> <li>Possesses special or unique aesthetic qualities; or</li> <li>Has prominence as a distinct feature in the surrounding landscape;</li> <li>Has been identified as important open space in a municipal.</li> </ul>				

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	regional or state plan.					
	Comments:					
24.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed					
	This wetland is not significant for this function; it is near Vt. Rte. 15 but is					
24.2 Statement of no undue	Please explain how the proposed project will not result in any undue					
adverse impact	adverse impact to this function. Include any avoidance and minimization measures relevant to this function.					
	There will be no undue adverse impacts to this function.					
25. Erosion Control through Binding and Stabilizing the Soil	Function is present and likely to be significant: Any of the following physical and vegetative characteristics indicate the wetland provides this function.					
	<ul> <li>Erosive forces such as wave or current energy are present and any of the following are present as well:</li> <li>Dense, persistent vegetation along a shoreline or stream bank that reduces an adjacent erosive force.</li> </ul>					
	<ul> <li>Good interspersion of persistent emergent vegetation and water along course of water flow.</li> <li>Studies show that wetlands of similar size, vegetation type, and hydrology are important for erosion control.</li> </ul>					
	What type of erosive forces are present:					
	Lake fetch and waves					
	High current velocities:					
	Water level influenced by upstream impoundment					
	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 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 <i>higher</i> 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.					
25.1.Subject Wetland	Please explain how the subject wetland contributes to the function listed					
	This wetland is not signicant for this function.					
25.2.Statement of no undue	Please explain how the proposed project will not result in any undue adverse impact to this function. Include any avoidance and minimization measures					

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adverse impact	relevant to this function.	
	There will be no undue adverse impacts to this function.	

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Reason for Mitigation:	ason for Mitigation: Correction of Violation		Voluntary
		impacts	

### All Applications Should be Mailed To:

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

Staff To Complete				
Wetland Project Number:				
Wetland Project Name:		DEC ID#:		
Date Application Received:				
<b>Request for Information Date:</b>		Information Received Date:		
<b>Request for Information Date:</b>		Information Received Date:		
Date Application Complete:		Distribution Complete Date:		
Notice Begin Date:		Notice End Date:		
Final Action Date:		Public Meeting Date:		
Check# Check Amount		nt Date Check Received		
Check#	Check Amoun	t Date Check Received		







### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: McMahon Ch	evrolet			City/County:	Hyde Park, L	.amoille	Sampling Date:	8 May 2015
Applicant/Owner: McMahon	Chevrole	t				<sub>State:</sub> VT	Sampling Poi	nt: 1-U
Investigator(s); Arthur V. Gi	ilman & Er	rol Brigg	S	Section. Tov	nship, Range:	·		
Landform (hillslope, terrace, et	<sub>c.):</sub> Gentle	slope	Lo	cal relief (cor	cave, convex, no	one); convex	Slo	ne (%): 5%
Subregion (LRR or MLRA): L	R		44.58719		Long: -72	2.60544	Datu	m: DD
Sail Man Unit Name: BOOthb	av silt loar	Ľa			Long		Data	n
An alimatic (hudrala sis as ali								
Are climatic / hydrologic condit	ions on the s	site typical t	or this time of ye	ear? Yes _i	No	(If no, explain in H	(emarks.)	
Are Vegetation <u>1</u> , Soil <u>N</u>	, or Hyc	drology <u>IN</u>	significantly	v disturbed?	Are "Norma	al Circumstances"	present? Yes <u>1</u>	No
Are Vegetation <u>N</u> , Soil <u>N</u>	, or Hyc	irology <u>N</u>	naturally pr	oblematic?	(If needed,	explain any answe	rs in Remarks.)	
SUMMARY OF FINDING	∋S – Atta	ch site n	nap showing	g sampling	point locati	ons, transects	, important fe	eatures, etc.
Hydrophytic Vegetation Broad		Vaa	No N	Is the	Sampled Area			
Hydric Soil Present?	<i>3111.1</i>	Yes	No_N	withi	n a Wetland?	Yes	<u>No N</u>	
Wetland Hydrology Present?		Yes	No N	lf ves	optional Wetlan	d Site ID. Wetlar	nd C at C-11	
Remarks: (Explain alternative	e procedures	here or in	a separate repo	ort.)				
HYDROLOGY								
Wetland Hydrology Indicate	ors:					Secondary Indica	tors (minimum of	two required)
Primary Indicators (minimum	<u>of one is req</u>	uired; chec	k all that apply)			Surface Soil	Cracks (B6)	
Surface Water (A1)			Water-Stained	Leaves (B9)		Drainage Pai	tterns (B10)	
High Water Table (A2)			Aquatic Fauna	(B13)		Moss Trim Li	nes (B16)	
Saturation (A3)			Marl Deposits (	(B15) de Oder (C1)		Dry-Season	Water Table (C2)	
Sediment Denosits (B2)			Ovidized Rhizo		iving Roots (C3)	Crayiisri Buri	ows (Co) sible on Aerial Im	agent (C0)
Drift Deposits (B3)		A	Presence of Re	educed Iron (C	(00) (4)	Stunted or St	iressed Plants (D	agery (C9)
Algal Mat or Crust (B4)			Recent Iron Re	duction in Till	ed Soils (C6)	Geomorphic	Position (D2)	''
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)								
Inundation Visible on Aer	ial Imagery (	B7)	Other (Explain	in Remarks)		Microtopogra	phic Relief (D4)	
Sparsely Vegetated Conc	ave Surface	(B8)				FAC-Neutral	Test (D5)	
Field Observations:		N						
Surface water Present?	Yes		_ Depth (Inches)	):	—			
Saturation Present?	Yes	No <u>N</u>	_ Depth (Inches)	):			42 Van	No N
(includes capillary fringe)	165		_ Depth (inches,	)		iyurology Presen	tr tes	NO <u>14</u>
Describe Recorded Data (stre	am gauge, n	nonitoring v	vell, aerial photo	os, previous ir	spections), if ava	ilable:		
Remarks:				·····				

**VEGETATION** – Use scientific names of plants.

Sampling Point: 1-U

	Abaaluta	Deminent	Indiantar	
Tree Stratum (Plot size: 30' )	<u>% Cover</u>	Species?	Status	Dominance Test worksheet:
1. No trees present				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: $0/2 = 100\%$ (A/B)
6.				
7				Prevalence Index worksheet:
···		- Total Co		OPL species
	<u> </u>		ver	EACIM species x 1 =
<u>Sapling/Shrub Stratum</u> (Plot size: <u>10</u> )				FAC species x3 =
				FACU species x4 =
2		<u> </u>		UPL species x 5 =
3		<u> </u>	· <u>·····</u>	Column Totals: (A) (B)
4				
5			. <u> </u>	
6			. <u> </u>	Hydrophytic Vegetation Indicators:
7	<u> </u>			1 - Rapid Test for Hydrophytic Vegetation
		= Total Cov	ver	$\frac{N}{2}$ - Dominance Test is >50%
Herb Stratum (Plot size: 5' )				3 - Prevalence Index is ≤3.0 <sup>1</sup>
1. Poa pratensis	30	Y	FACU	4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
2. Erythronium americanum	25	Y	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Solidago altissima	10	Ν	FACU	
4. Veronica chamaedrys	10	N	UPL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic,
5. Carex arctata	10	N	UPL	Definitions of Vegetation Strate:
6. Onoclea sensibilis	5	Ν	FACW	beimilion of vegetation of data.
7. Plantago lanceolata	5	N	UPL	<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8. Solidago gigantea	5	N	FACW	
9. Bromus inermis	5	N	UPL	and greater than or equal to 3.28 ft (1 m) tall.
10. Fragaria virginiana	5	N	UPL	Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
	110	= Total Cov	/er	height.
Woody Vine Stratum (Plot size:	·			
1 No woody vines				
2		······································		
2.	·			
3				Hydrophytic Vegetation
4	·			Present? Yes <u>No N</u>
Demotion (Include photo numbers here or on a constate (		= I otal Cov	er	
Remarks: (include photo numbers here or on a separate s	sneet.)			

#### SOIL

Profile Desc	cription: (Describe	to the de	pth needed to docur	ment the	indicator	or confirm	n the absence of indicat	tors.)			
Depth	Matrix		Redc	x Feature	<u>s</u>	2	Tartura	Demetro			
		400		70	Type	LOC		<u>Kemaiks</u>			
0-10	10 Y K 4/3										
10-15	5Y 4/2	98	2,5Y 4/3	2	<u> </u>	<u>M</u>	silt loam				
							<u></u>	,			
<u> </u>				_							
							<u> </u>				
	· · · · · · · · · · · · · · · · · · ·		<b>.</b>	_							
			· · · · · · · · · · · · · · · · · · ·								
· · · · · · · · · · · · · · · · · · ·											
	·				,						
<sup>1</sup> Type: C=C	oncentration, D=Depl	letion, RM	<u>/I=Reduced Matrix, Mf</u>	S=Masked	I Sand Gr	ains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.			
Hyaric Son Histosol	Indicators:		Polyalue Belo	Surface	(29) /1 8		2 om Muck (A10)	Matic Hydric Solis :			
Histic Ep	ciano pipedon (A2)		MLRA 149B		(30) (EN	<b>ξ</b> Γ,	Coast Prairie Rec	dox (A16) (LRR K, L, R)			
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9) (I	_RR R, M	LRA 149B)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
Hydroge	n Sulfide (A4)		Loamy Mucky M	viineral (F	1) (LRR K	., L)	Dark Surface (S7) (LRR K, L)				
Stratitied	I Layers (A5) d Below Dark Surfac	o (∆11)	Loamy Gleyed	Matrix (F2 ッ(F3)	)		Polyvalue Below Surface (S8) (LRR K, L)				
Thick Da	ark Surface (A12)	\$ (711)	Redox Dark Su	Inface (F6)	)		Iron-Manganese Masses (F12) (LRR K, L, R)				
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface (F	-7)		Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy G	leyed Matrix (S4)		Redox Depress	ions (F8)			Mesic Spodic (TA	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy K	edox (S5)						Red Parent Mater	rial (F21)			
Dark Su	nface (S7) (LRR R, N	/LRA 149	B)				Other (Explain in	Remarks)			
			_,					,			
<sup>3</sup> Indicators of	i hydrophytic vegetati	ion and w	etland hydrology mus	st be prese	ent, unless	s disturbed	or problematic.				
Restrictive I	.ayer (if observed):										
Туре:	·						Ludria Sail Procent?	Yoo No Y			
Depth (inc	:hes):						Hyune son Fresence	res no			
Remarks:	foint ne	- 1		راهما احم	- for de	مرامعا م	- tuto to making at				
Redox lear	ures are taim, no	ot promi	nent or distinct, so	o criterio	on for de	pletea n	natrix is not met.				

#### WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: McMahon Chevrolet	City/County: _	Hyde Park, Lamoille,	_ Sampling Date: 8 May 2015
Applicant/Owner: McMahon Chevrolet		<sub>State:</sub> VT	Sampling Point: 1-W
Investigator(s): Arthur V. Gilman & Errol Br	iggs Section, Tow	nship, Range:	
Landform (hillslope, terrace, etc.): Gentle slope	E Local relief (cond	cave, convex, none): CONCAVE	Slope (%): 5%
Subregion (LRR or MLRA): LRR	Lat: 44.58719	Long: -72.60544	Datum: DD
Soil Map Unit Name: Boothbay silt loam		NWI classif	cation: PEM
Are climatic / hydrologic conditions on the site typi	cal for this time of year? Yes Y	No (If no, explain in	Remarks.)
Are Vegetation Y Soil N or Hydrology	N significantly disturbed?	Are "Normal Circumstances"	present? Yes Y No
Are Vegetation N Soil N or Hydrology	N naturally problematic?	(If needed, explain any answ	ers in Remarks )
SUMMARY OF FINDINGS – Attach sit	te map showing sampling	point locations, transect	s, important features, etc.
Ver Y	ls the	Sampled Area	
Hydrophylic Vegetation Present? Fes	No within	a Wetland? Yes <u>Y</u>	No
Wetland Hydrology Present? Yes Y	No If ves.	optional Wetland Site ID: Wetla	nd C at C-11
Remarks: (Explain alternative procedures here of	pr in a separate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soi	Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Pa	atterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim I	ines (B16)
Y Saturation (A3)	Marl Deposits (B15)	Dry-Season	Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)	Presence of Reduced Iron (C	4) Stunted or Statutation	Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tille	ed Soils (C6) Geomorphic	Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aqu	uitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopogr	aphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	a a superior	FAC-Neutra	I Test (D5)
Field Observations:	Double (in stars)		
Surface vvater Present? Yes No _	Depth (inches):		
Saturation Present? Yes Y No	Denth (inches): <u>6</u>	 Wetland Hydrology Prese	nt? Yes Y No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous ins	spections), if available:	
Remarks:			

**VEGETATION** – Use scientific names of plants.

Sampling Point: <u>1-W</u>

202	Absolute	Dominan	t Indicator	Dominance Test worksheet
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1. No trees present	<u> </u>			That Are OBL, FACW, or FAC: _3 (A)
2			. <u></u>	Total Number of Dominant
3.				Species Across All Strata: <u>3</u> (B)
	_			Dement of Deminent Creation
	<u> </u>		•	That Are OBL, FACW, or FAC: $2/2 = 100\%$ (A/B)
5			·	(/
6		· . <u></u>	·	Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Co	ver	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1 No shrubs present				FAC species x 3 =
·			·	FACU species x 4 =
2			·	UPL species x 5 =
3	<u></u>			Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
6.				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
· · · · · · · · · · · · · · · · · · ·				Y 2 - Dominance Test is >50%
		= I otal Co	ver	$3 - Prevalence Index is \leq 3.0^{1}$
Herb Stratum (Plot size: 5)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Scirpus atrovirens		<u>Y</u>	OBL	data in Remarks or on a separate sheet)
2. Onoclea sensibilis	20	Y	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Carex vulpinoidea	15	Y	OBL	
4. Solidago rugosa	15	N	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Solidago solidago	5	N	FACW	
6				Deminitions of vegetation Strata:
-			<u> </u>	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7	<u> </u>			at breast height (DBH), regardless of height.
8	<u> </u>			Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3 28 ft in
12.	85			height.
		= I otal Co	ver	
Woody Vine Stratum (Plot size:)				
1. No woody vines				
2				
3.				Hydrophytic
Λ				Vegetation
	<u> </u>			Present? Yes Y No
		= Total Co	ver	<u> </u>
Remarks: (Include photo numbers here or on a separate	sneet.)			

#### SOIL

Compline	Deint	1	-1	٨I	
Sampling	Point:		_	• •	

Profile Desc	cription: (Describe	to the de	pth needed to docu	ment the	indicator	or confirm	n the absence	e of indicators.)	
Depth (inches)	<u>Matnx</u> Color (moist)	%	Color (moist)	<u>ox ⊢eature</u> %	s Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-9	10 YR 4/2	100					silt loam	oxidized rhizospheres	
9-15	2.5Y 5/3	95	10 YR 3/3	5	<u>с</u>	M	silt loam		
						,			
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<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Masked	Sand Gr	ains.	<sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.	
Hydric Soil I	Indicators:			~ .			Indicators	for Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1) Vinedon (A2)		Polyvalue Belov	w Surface	(S8) (LRF	RR,	2 cm M Coast	Muck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R)	
Black Hi	stic (A3)		Thin Dark Surfa	, ace (S9) (L	.RR R, MI	RA 149B	) 5 cm M	Mucky Peat or Peat (S3) (LRR K, L, R)	
Hydroge	n Sulfide (A4)		Loamy Mucky M	Mineral (F1	I) (LRR K	, L)	Dark Surface (S7) (LRR K, L)		
Stratified	l Layers (A5) A Balaw Dark Surfaa	. (A11)	Loamy Gleyed	Matrix (F2	)		Polyvalue Below Surface (S8) (LRR K, L)		
Thick Da	rk Surface (A12)	= (ATT)	Redox Dark Su	rface (F6)			Iron-Manganese Masses (F12) (LRR K, L, R)		
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface (F	7)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy G	leyed Matrix (S4)		Redox Depress	ions (F8)			Mesic	Spodic (TA6) (MLRA 144A, 145, 149B)	
Sandy R	Sandy Redox (S5)						Red Parent Material (F21) Very Shallow Dark Surface (TE12)		
Dark Sur	face (S7) (LRR R, N	ILRA 149	3)				Other (Explain in Remarks)		
3									
Restrictive L	aver (if observed):	ion and w	etland hydrology mus	t be prese	int, unless	disturbed	or problemation	3.	
Type:	<b>,</b> ,,-								
Depth (inc	ches):						Hydric Soil	Present? Yes <u>Y</u> No	
Remarks:					-		.l	· · · · · · · · · · · · · · · · · · ·	



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