





Franklin County Line Upgrade Photographs: May-August 2022 and June-July 2023

PROJECT NUMBER 58789.00

Georgia, St. Albans, Swanton, and Highgate Vermont

Vermont Transco, LLC (VELCO) 366 Pinnacle Ridge Road Rutland, Vermont 05701





NO. 1 / 05.17.2022

A representative photograph of Palustrine Emergent ("PEM") wetland GE-106(II).



A representative photograph of Palustrine Scrub Shrub ("PSS") wetland SA-7(II).



NO. 3 / 06.02.2022

Representative photograph of PEM wetland SW-13(II).



Representative photograph of Palustrine Forested ("PFO") wetland HI-113(III).

NO. 4 / 06.07.2022





NO. 5 / 06.02.2022

Representative photograph of PEM/palustrine open water "(POW)" wetland HI-6 (II).



Representative photograph of PEM/PSS wetland SA-15 (II) which is in an agricultural field.



Representative photograph of PEM wetland HI-100(II) associated with a incised stream 2022-HI-SC-5.



NO. 8 / 05.17.2022

Representative photograph of PSS wetland GE-101(III).





NO. 9 / 06.02.2022

The perennial Missisquoi River S-HI-2 where it crosses the Study Area.



Representative photograph of a jurisdictional ditch SA-211.



NO. 11 / 05.17.2022

Representative photograph of intermittent stream S-GE-311.



Representative photograph of intermittent stream S-SW-2.

NO. 12 / 06.07.2022





NO. 13 / 12.08.2022 Photograph of the Riverside Outcrop natural community at the Missisquoi River.



NO. 14 / 04.18.2023

Representative view of northern hardwood forest adjacent to ROW in Georgia.



NO. 15 / 12.08.2022

View of deer wintering adjacent to the ROW.



NO. 16 / 5.22.2022

An example of a dead standing potential roost tree ("PRT") with cavities that is adjacent to the ROW.





NO. 17 / 06.23.2022

Representative photograph of a living PRT with a cavity.



No. 18 / 4.18.2023

Representative photograph of Vernal Pool 2023-1.



Representative photograph of SW-102(5) with evidene of breeding amphibians. Does not meet forested definition of vernal pool.



A representative photograph of the non native invasive species ("NNIS") present in the ROW such as multifloral rose (Rosa multifora) and Morrows Honeysuckle (Lonicera morrowii).

NO. 20 / 05.18.2022





NO. 21 / 05.17.2022

An example of a NNIS species Japanese barberry (*Berberis thunbergii*) present in the ROW.



An example of a NNIS species Japanese knotweed (Fallopia japonica) present in the ROW.

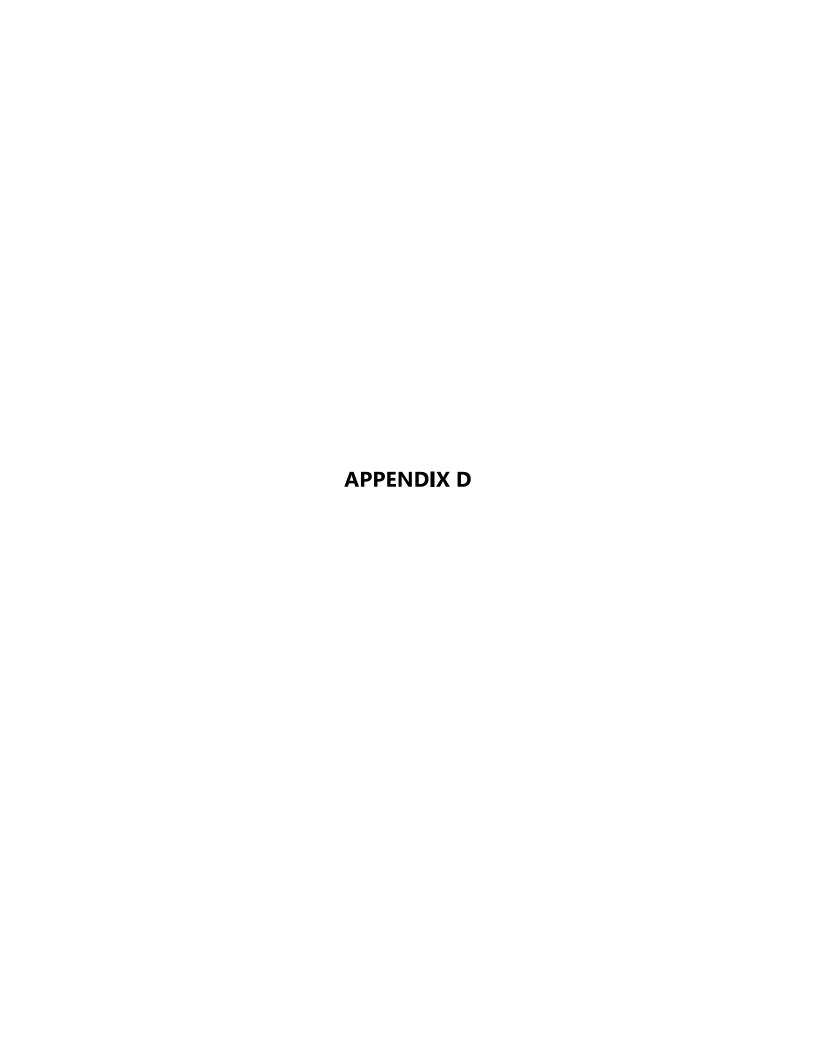


An example of a NNIS species common reed (*Phragmites australis*) present in the ROW.



NO. 24 / 05.18.2022

An example of a NNIS species purple loosestrife (*Lythrum salicaria*) present in the ROW.





Project: Franklin County Line Upgrade Project Client: Vermont Electric Power Company ("VELCO")

Location: Georgia to Highgate, Vermont
Prepared By: VHB (B. Galligan, K. Maines) August 3, 2023, Updated September 15, 2023

						VHB De l i	neated Wetlands					
							Ver	mont Wetland Rules Classification				
Wetland ID	Delineated Area (Square Feet) ¹	Cowardin Classification ²	Hydrology Indicator	Hydric Soil Indicator	Contiguous to a VSWI-mapped	Riparian Wetland Contiguous to Stream Channel? (Flow	VWR Section 4.6 Categorical	VWR Section 5 Functiona	al Criteria Presence / Significance	VHB-Proposed VWR	Typical Vegetation	Comments
					Wetland?	Regime) ³	Class II Wetlands⁴	Type ⁵	VHB-Presumed Significant?	Classification ⁶		
GA-1	311,826	PEM, PSS	Surface Water (A1), Saturation (A3), Water Marks (B1), Oxidized Rhizospheres on Living Roots (C3)	Redox Dark Surface (F6), Depleted Matrix (F3)	Yes	Yes (Perennia l)	4.6a, b	5.1(H), 5.2(H), 5.3(P), 5.4(P), 5.10(H)	Yes	II	Phalaris arundinacea, Alnus incana, Impatiens capensis	Large wetland system associated with Stone Bridge Brook.
GE-302	47,984	PEM, PSS	Oxidized Rhizospheres on Living Roots (C3), Saturation (A3)	Redox Dark Surface (F6)	Yes	Yes (Perennia l)	4.6a, b	5.1(P) 5.2(P) 5.3(P), 5.10(P)	Yes	II	Phalaris arundinacea, Solidago rugosa, Spiraea alba	Wetland system associated with a stream.
GE-303	44,398	PEM, PSS, POW	Surface Water (A1), Aquatic Fauna (B13), Oxidized Rhizospheres on Living Roots (C3), Saturation (A3)	Redox Dark Surface (F6), Depleted Matrix (F3)	No	No	4.6a	5.1(P) 5.2(P)	Yes	Ш	Phragmites australis, Taraxacum officinale, Phalaris arundinacea, Onoclea sensibilis	Wetland system associated with a feature within managed agricultural land.
GE-305	8,315	PEM	Oxidized Rhizospheres on Living Roots (C3), Saturation (A3)	Redox Dark Surface (F6)	No	Yes (Intermittent)	4.6a, b	5.1(P) 5.2(P), 5.10 (P)	Yes	II	Phalaris arundinacea, Typha latifolia, Acorus calamus	Wetland swale adjacent to managed agricultural land.
GE-1	2,217	PEM	Saturation (A3), Surface Soil Cracks (B6)	Depleted Matrix (F3)	No	No	-	5.1(L), 5.2(L)	No	Ш	Glyceria grandis	Small swale feature adjacent to managed agricultural land.
GE-306	18,172	PEM	Oxidized Rhizospheres on Living Roots (C3)	Redox Dark Surface (F6)	No	No (Ditch)	4.6a	5.1(P), 5.2(P)	Yes	II	Phalaris arundinacea, Ranunculus repens	Wetland swale adjacent to managed agricultural land.
GE-307	6,726	PEM/PSS	Oxidized Rhizospheres on Living Roots (C3), Microtopographic Relief (D4)	Redox Dark Surface (F6), Depleted Matrix (F3)	No	No	4.6a	5.1(P), 5.2(P)	Yes	II	Typha latifolia, Salix sericea, Onoclea sensibilis	Wetland feature that extends outside of Study Area.
GE-308	5,649	PEM/PSS	Oxidized Rhizospheres on Living Roots (C3), Microtopographic Relief (D4)	Redox Dark Surface (F6), Depleted Matrix (F3)	No	No	4.6a	5.1(P), 5.2(P)	Yes	II	Typha latifolia, Salix sericea, Onoclea sensibilis	Wetland feature that extends outside of Study Area.
GE-309	11,699	PEM/PSS	Surface Water (A1), High Water Table (A2), Saturation (A3), Water-Stained Leaves (B9), Presence of Reduced Iron (C4), Microtopographic Relief (D4)	Depleted Matrix (F3)	No	No	-	5.1(L), 5.2(L)	No	III	Spiraea tomentosa, Onoclea sensibilis, Calamagrostis canadensis	Small isolated feature that extends slightly outside of Study Area.
GE-109	35,385	PEM/PSS	Surface Water (A1), High Water Table (A2), Saturation (A3), Water-Stained Leaves (B9), Presence of Reduced Iron (C4), Microtopographic Relief (D4)	Depleted Matrix (F3)	No	No	4.6a	5.1(P), 5.2(P)	No	II	Spiraea tomentosa, Onoclea sensibilis, Calamagrostis canadensis	Wetland feature that extends outside of Study Area.
GE-310	25,709	PEM	Oxidized Rhizospheres on Living Roots (C3), Geomorphic Position (D2)	Redox Dark Surface (F6)	Yes	Yes (Perennia i)	4.6a, b	5.1(P), 5.2(P), 5.3(P), 5.4(P) 5.10(P)	Yes	II	Phalaris arundinacea, Onoclea sensibilis	Wetland system associated with Mill River. Wetland is adjacent to managed agricultural fields.
GE-312	71,084	PSS, PEM	Surface Water (A1), Saturation (A3), Water- Stained Leaves (B9), Oxidized Rhizospheres on Living Roots (C3), Geomorphic Position (D2)	Histic Epipedon (A2), Depleted Matrix (F3), Redox Dark Surface (F6)	Yes	Yes (Perennia l)	4 .6a, b	5.1(P), 5.2(P), 5.3(P), 5.4(H), 5.10(P)	Yes	II	Carex lacustris, Alnus incana, Onoclea sensibilis	Wetland system associated with Mill River. Wetland is adjacent to managed agricultural fields.
GE-108	3,304	PEM	Surface Water (A1), Water-Stained Leaves (B9), Oxidized Rhizospheres on Living Roots (C3), Geomorphic Position (D2)	Redox Dark Surface (F6), Depleted Matrix (F3)	No	No	4.6a	5.1(P), 5.2(P)	Yes	II	Solanum dulcamara, Fraxinus pennsylvanica, Phalaris arundinacea	Wetland swale associated with larger feature. Connects outside of Study Area.
GE-313	63,722	PEM	Oxidized Rhizospheres on Living Roots (C3), Saturation (A3)	Redox Dark Surface (F6), Depleted Matrix (F3)	No	No (Ditch)	4.6a,b	5.1(P), 5.2(P), 5.10(L)	Yes	П	Onoclea sensibilis, Phalaris arundinacea, Solidago gigantea	Wetland extends outside of the Study Area and is associated with a stream. Ditch has intermittent flow.
2022-GE-151	1	PEM	Saturation (A3), Water-Stained Leaves (B9), Oxidized Rhizospheres on Living Roots (C3)	Redox Dark Surface (F6)	No	No	4.6a	5.1(P), 5.2(P)	Yes	II	Phalaris arundinacea, Persicaria pensylvanica	Wetland feature extends outside of Study Area.



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Methan ID Delineated Area (Square Feet) Cowardin Classification PEM/PSS Surface Water (A1), High Water Table (A2), Square (Feet) Inn (C4) PEM/PSS Surface Water (A1), Sturation (A3), Oxidezed Rivizospheres on Living Roots (C3) PEM/PSS PEM/PSS Surface Water (A1), Water-Stained Leaves (B9) Surface Water (A1), Water-Stained Leaves (B9) C4) PEM/PSS Surface Water (A1), Water-Stained Leaves (B9) C4) PEM/PSS Surface Water (A1), Sturation (A3), Oxidezed Rivizospheres on Living Roots (C3) PEM/PSS Surface Water (A1), Sturation (A3), Oxidezed Rivizospheres on Living Roots (C3) PEM/PSS Surface Water (A1), Sturation (A3), Oxidezed Rivizospheres on Living Roots (C3) Redox Data (F3) Redox Data	Large wetland system that extends into off-ROW access Study Area. Solix Ponded wetland due to shallow bedrock at a high point in a field.
Wetland ID Comparing Rest Comparing	Large wetland system that extends into off-ROW access Study Area. Salix Ponded wetland due to shallow bedrock at a high point in a field. Wetland extends outside of the Study Area and is
Cass	Salix Ponded wetland due to shallow bedrock at a high point in a field. Wetland extends outside of the Study Area and is
Saturation (A3), Water-Stained Leaves (B9), Aquatic Found (B13), Oxidized Rhizospheres on Living Roots (C3), Presence of Reduced Iron (C4) GE-317	Salix Ponded wetland due to shallow bedrock at a high point in a field. Wetland extends outside of the Study Area and is
Deficion PEM Oxidized Rhizospheres on Living Roots (C3) (F3) No No - S.1(L), S.2(L) No III Debbiana	point in a field. Wetland extends outside of the Study Area and is
GE-105 139.220 PEM Oxidized Rhizospheres on Living Roots (C3), Microtopographic Relief (D4) Oxidized Rhizospheres on Living Roots (C3), Microtopographic Relief (D4) Oxidized Rhizospheres on Living Roots (C3), Microtopographic Relief (D4) Oxidized Rhizospheres on Living Roots (C3), Redox Dark Surface (F6), Depleted Matrix (F3) No No A 46a 5.1(P), 5.2(P) No II Auncus effusus, Iris verification graming (F3) Oxidized Rhizospheres (P6), Depleted Matrix (F3) Oxidized Rhizospheres (P6), Depleted Rhizospheres (P6), D	
GE-105 139,220 PEM Oxidized Rhizospheres on Living Roots (C3), Microtopographic Relief (D4) Surface (F6), No No No 46a 5.1(P), 5.2(P) No III Ancus effusus, Iris ve Euthamia gramin. Water-Stained Leaves (89), Saturation (F3) Water-Stained Le	
Water-Stained Leaves (B9), Saturation Phalais arundingo	
Visure in heard (25), Caches Value of the Company Reduct (25) and y Reduct (25) and	
GE-102 7,854 PEM Water-Stained Leaves (B9), Saturation Visible on Aerial (C9), Oxidized Rhizospheres on Living Roots (C3) Sandy Redox (S5) No No - 5.1(L), 5.2(L) No III Phalaris arundinac versicolor, Onoclea se	
GE-101 4.036 PSS Water-Stained Leaves (B9), Oxidized Rhizospheres on Living Roots (C3) Water-Stained Leaves (B9), Oxidized Rhizospheres on Living Roots (C3) Root Dark Surface (F6) Depleted Matrix (F3), Redox Dark Surface (F6) No No - S.1(L), S.2(L) No No - S.1(L), S.2(L) No III Lysimachia nummin Salix nigra, Cornus	
GE-100 3,728 PEM Water-Stained Leaves (89), Oxidized Ribizospheres on Living Roots (C3) No No Salta Surface (F6) No Salta Surface (F6) No No Salta Surface (F6) No Salta	anum Small disconnected swale feature.
GE-1(2) 66,799 PEM/PSS/POW Surface Water (A1), High Water Table (A2). Saturation (A3) No No A 6a S.1(P), S.2(P) Yes II Thuja occidentalis, C. sensibilis, Equisetum Chamaecyparis thy Typha latifolis	vense, Managed cedars within ROW, with a constructed
SA-5 22,756 PSS Surface Water (A1). Saturation (A3), Water-Stained Leaves (B9) No No - S.1(P), S.2(P) Yes II Salix bebliana, Or sensibilis, Phala anumalnacea	
SA-300 15,060 PEM/PSS Saturation (A3), Oxidized Rhizospheres on Living Roots (C3) No No 4.6a 5.1(P), 5.2(P) Yes II Onoclea sensibilis, bebbiana, Galium p	
SA-4 3.712 PSS Surface Water (A1), Saturation (A3), Water-Stained Leaves (B9) No No 4.6a 5.1(P), 5.2(P) Yes II Sensibilis, Photo anundinoceal annuncian	
SA-3 16,277 PEM/PSS Saturation (A3), High Water Table (A2), Surface Water (A1), Oxidized Rhizospheres on Living Roots (C3) No No No 4.6a 5.1(P), 5.2(P) Yes II arundinacea, Viola ce Thelypteris palus	ullata, connects to a larger feature
SA-2 10,205 PEM Saturation (A3), Oxidized Rhizospheres on Living Roots (C3) PEM (F3) Ves No 4.6a 5.1(P), 5.2(P) Yes Proceedings of the Solid Processing Solid P	istre, Wetlands extends outside of Study Area and
SA-1 3,360 PEM Surface Water (A1), High Water Table (A2), Saturation (A3), Oxidized Rhizospheres on Living Roots (C3) No No - 5.1(L), 5.2(L) No III Typha angustife.	Wetland consists of maintained pond constructed from upland.



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Wetland ID	Delineated Area (Square Feet) ¹	Cowardin Classification ²	Hydrology Indicator	Hydric Soil Indicator	Contiguous to a VSWI-mapped	Riparian Wetland Contiguous to Stream Channel? (Flow	VWR Section 4.6 Categorical	VWR Section 5 Functions	al Criteria Presence / Significance	VHB-Proposed VWR	Typical Vegetation	Comments
					Wetland?	Regime) ³	Class II Wetlands ⁴	Type ⁵	VHB-Presumed Significant?	Classification ⁶		
SA-2(2)	14,799	PEM/PSS	Surface Water (A1), High Water Table (A2), Saturation (A3), Water Marks (B1), Oxidized Rhizospheres on Living Roots (C3)	Histosol (A1)	No	No	4.6a	5.1(P), 5.2(P), 5.10(L)	Yes	П	Salix bebbiana, Onoclea sensibilis, Equisetum arvense, Lythrum salicaria	Wetland extends outside of ROW and associated with a small stream.
SA-3(2)	13,148	PEM/PSS	Saturation (A3), High Water Table (A2)	Depleted Matrix (F3)	No	Yes (Perennia l)	4.6a, b	5.1(P), 5.2(P), 5.3(P), 5.4(P), 5.10(P)	Yes	II	Typha angustifolia, Salix bebbiana, Onoclea sensibilis	Wetland extends outside of ROW and associated with perennial stream.
SA-4(2)	23,072	PEM/PFO	Surface Water (A1)	Redox Dark Surface (F6)	No	No	4.6a	5.1(P), 5.2(P)	Yes	II	Equisetum fluviatile, Phragmites australis	Wetland extends outside of ROW.
SA-5(2)	49,719	PEM/PSS	Surface Water (A1), Water-Stained Leaves (B9), Geomorphic Position (D2)	Redox Dark Surface (F6), Dep l eted Dark Surface (F7)	No	No	4.6a	5.1(P), 5.2(P)	Yes	Ш	Equisetum fluviatile, Thelypteris palustris, Onoclea sensibilis, Cornus racemosa	Wetlands extends outside of Study Area and connects to a larger feature. Partially consists of maintained field.
SA-6	1,868	PEM	Saturation (A3), Water-Stained Leaves (B9), Drainage Patterns (B10), Geomorphic Position (D2), Shallow Aquitard (D3)	Redox Dark Surface (F6)	No	No	-	5.1(L), 5.2(L)	No	III	Phalaris arundinacea, Equisetum arvense	Isolated feature entirely within ROW.
SA-7	18,935	PEM/PSS	Surface Water (A1), Water-Stained Leaves (B9), Saturation (A3), Oxidized Rhizospheres on Living Roots (C3), Drainage Patterns (B10)	Redox Dark Surface (F6)	No	No(Ditch)	4.6a	5.1(P), 5.2(P)	Yes	11	Onoclea sensibilis, Salix bebbiana	Wetland extends outside of the Study Area.
SA-402	3,602	PEM/PSS	Saturation (A3), Water-Stained Leaves (B9), Drainage Patterns (B10), Oxidized Rhizospheres on Living Roots (C3)	Redox Dark Surface (F6)	No	No(Ditch)	-	5.1(L), 5.2(L)	No	III	Salix nigra, Onoclea sensibilis	Wetland extends outside of Study Area but is isolated.
SA-402(2)	6,575	PEM	Saturation (A3), Microtopographic Relief (D4)	Redox Dark Surface (F6)	No	No(Ditch)	-	5.1(L), 5.2(L)	No	Ш	Phalaris arundinacea, Cornus alba	Wetland extends outside of Study Area but is isolated.
SA-8	24,307	PEM	Saturation (A3), Water-Stained Leaves (B9), Oxidized Rhizospheres on Living Roots (C3)	Redox Dark Surface (F6)	No	Yes (Perennia l)	4.6a, b	5.1(P), 5.2(P), 5.3(P), 5.4(P), 5.10(P)	Yes	II	Typha latifolia, Phalaris arundinacea	Wetland feature associated with a stream.
SA-403	2,707	PEM	Saturation (A3), Oxidized Rhizospheres on Living Roots (C3), Water-Stained Leaves (B9)	Redox Dark Surface (F6)	No	No	-	5.1(L), 5.2(L)	No	III	Phalaris arundinacea, Symphyotrichum novae- angliae	Isolated feature entirely within Study Area.
SA~404	950	PEM/PSS	Surface Water (A1), Geomorphic Position (D2), Oxidized Rhizospheres on Living Roots (C3)	Depleted Matrix (F3)	No	No	-	5.1(L), 5.2(L)	No	III	Fraxinus pennsylvanica, Populus deltoides	Isolated feature entirely within Study Area.
SA-9	30,192	PEM/PSS	High Water Table (A2), Surface Water (A1)	Redox Dark Surface (F6), Depleted Dark Surface (F7)	No	Yes (Perennia l)	4.6a, b	5.1(P), 5.2(P), 5.3(P), 5.4(P), 5.10(P)	Yes	II	Phalaris arundinacea, Onoclea sensibilis	Wetland feature extends outside of the Study Area and is associated with a stream.
SA-10	26,433	PEM/PSS	High Water Table (A2), Water-Stained Leaves (B9), Geomorphic Position (D2)	Histic Epipedon (A2), Redox Dark Surface (F6)	No	No	4.6a	5.1(P), 5.2(P)	Yes	Ш	Phalaris arundinacea, Alnus incana	Wetland feature extends outside of the Study Area.
SA-11	16,253	PEM/PSS	Surface Water (A1), Water-Stained Leaves (B9), Oxidized Rhizospheres on Living Roots (C3), Geomorphic Position (D2), Drainage Patterns (B10)	Redox Dark Surface (F6)	No	Yes (Perennial)	4.6a, b	5.1(P), 5.2(P), 5.3(P), 5.4(P), 5.10(P)	Yes	Ш	Cornus amomum, Mentha aquatica	Wetland feature extends outside of the Study Area and is associated with a stream.
SA-405	7,002	PEM	Saturation (A3), Oxidized Rhizospheres on Living Roots (C3)	Redox Dark Surface (F6), Depleted Matrix (F3)	No	No	-	5.1(L), 5.2(L)	No	III	Phalaris arundinacea, Alnus incana	Isolated feature entirely within ROW.



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					Wetland?	Regime) ³	Class II Wetlands ⁴	Type ⁵	VHB-Presumed Significant?	Classification ⁶		
SA-1000(2)	457	PEM/PSS	Water-Stained Leaves (B9), Drainage Patterns (B10), Oxidized Rhizospheres on Living Roots (C3)	Redox Dark Surface (F6)	No	No	-	5.1(L), 5.2(L)	No	Ш	Impatiens capensis, Fraxinus pennsylvanica	Isolated feature observed along off-ROW access.
SA-13	35,737	PEM/PSS	Surface Water (A1), Saturation (A3), Oxidized Rhizospheres on Living Roots (C3)	Redox Dark Surface (F6)	No	No	4.6a	5.1(P), 5.2(P)	No	11	Onoclea sensibilis, Phalaris arundinacea, Lythrum salicaria	Large feature within maintained agricultural field that extends beyond the ROW.
SA-14	10,057	PEM/PSS	Surface Water (A1), Saturation (A3), Oxidized Rhizospheres on Living Roots (C3)	Redox Dark Surface (F6)	No	Yes (Intermittent)	4.6a, b	5.1(P), 5.2(P) 5.10(P)	Yes	11	Onoclea sensibilis, Phalaris arundinacea, Lythrum salicaria	Wetland features extends outside of the Study Area and is associated with a stream.
SA-15	96,187	PEM/PSS	Saturation (A3), Water-Stained Leaves (B9), Oxidized Rhizospheres on Living Roots (C3)	Redox Dark Surface (F6), Depleted Matrix (F3)	No	Yes (Intermittent)	4.6a, b	5.1(P), 5.2(P), 5.3(P), 5.4(P), 5.10(P)	Yes	11	Phalaris arundinacea, Solidago gigantea	Wetland extends outside of Study Area and generally associated with managed agricultural fields.
SW-107	3,459	-	Surface Water (A1), High Water Table (A2), Saturation (A3), Water-Stained Leaves (B9), Oxidized Rhizospheres on Living Roots (C3)	Histic Epipedon (A2), Redox Dark Surface (F6)	No	No	-	5.1(L), 5.2(L)	No	Ш	Typha latifolia, Solanum dulcamara, Onoclea sensibilis	lsolated swale feature adjacent to railroad embankment.
SW-2	683	-	Saturation (A3), Oxidized Rhizospheres on Living Roots (C3)	Redox Dark Surface (F6)	No	No (Ditch)	-	5.1(L), 5.2(L)	No	III	Salix bebbiana, Typha latifolia, Phalaris arundinacea	Isolated feature within Study Area
SW-3	205	PFO/PUB	Surface Water (A1), High Water Table (A2), Saturation (A3), Water-Stained Leaves (89), Inundation Visible on Aerial (87), Oxidized Rhizospheres on Living Roots (C3), Shallow Aquitard (D3)	Histic Epipedon (A2), Redox Dark Surface (F6)	No	No	4 .6a	5.1(P), 5.2(P)	Yes	II	Typha latifolia, Populus deltoides	Wetland associated with a man made pond,
SW-4	3,323	-	Surface Water (A1), High Water Table (A2), Saturation (A3), Oxidized Rhizospheres on Living Roots (C3), Shallow Aquitard (D3)	Redox Dark Surface (F6)	No	No	=	5.1(L), 5.2(L)	No	III	Spiraea tomentosa, Onoclea sensibilis, Salix eriocephala	Isolated feature entirely within Study Area,
SW-102(5)	6,086	PEM/PUB	High Water Table (A2), Saturation (A3), Surface Water (A1), Inundation Visible on Aerial (B7), Sparsely Vegetated Concave Surface (B8), Water-Stained Leaves (B9), Aquatic Fauna (B13), Shallow Aquitard (D3)	Depleted Matrix (F3)	No	No	4.6a	5.1(P), 5.2(P)	Yes	11	Salix SP, Phalaris arundinacea	Breeding amphibians observed within wetland, but does not meet Vernal Pool criteria,
SW-6	2,097	PEM	Surface Water (A1), High Water Table (A2), Saturation (A3), Water-Stained Leaves (B9), Presence of Reduced Iron (C4)	Depleted Matrix (F3)	No	No	-	5.1(L), 5.2(L)	No	III	Phalaris arundinacea, Juncus effusus, Scirpus atrovirens	Isolated feature entirely within Study Area.
SW-100	470	-	Oxidized Rhizospheres on Living Roots (C3), Saturation (A3), High Water Table (A2), Surface Water (A1)	Depleted Matrix (F3), Redox Dark Surface (F6)	No	No	-	5.1(L), 5.2(L)	No	Ш	Galium palustre, Poa palustris	Isolated feature entirely within Study Area.
SW-7	4,991	PEM/PSS	Surface Water (A1), High Water Table (A2), Saturation (A3), Water-Stained Leaves (B9), Oxidized Rhizospheres on Living Roots (C3), Presence of Reduced Iron (C4)	Redox Dark Surface (F6)	No	No	-	5.1(L), 5.2(L)	No	Ш	Equisetum arvense, Typha latifolia, Phalaris arundinacea	Isolated feature that extends outside of Study Area.
SW-8	25,723	PEM/PSS	Saturation (A3)	Redox Dark Surface (F6)	No	No	4.6a	5.1(P), 5.2(P)	Yes	11	Onoclea sensibilis, Salix bebbiana, Spiraea alba	Wetlands extends outside of Study Area.
SW-9	72,412	PSS	Saturation (A3), Surface Water (A1)	Depleted Dark Surface (F7)	Yes	No	4.6a	5.1(P), 5.2(P)	Yes	II	Onoclea sensibilis, Phalaris arundinacea	Wetlands extends outside of Study Area.



Project: Franklin County Line Upgrade Project **Client:** Vermont Electric Power Company ("VELCO")

Location: Georgia to Highgate, Vermont

Prepared By: VHB (B. Galligan, K. Maines) August 3, 2023, Updated September 15, 2023

						VHB De l i	neated Wetlands					
							Ver	mont Wetland Rules Classification				
Wetland ID	Delineated Area (Square Feet) ¹	Cowardin Classification ²	Hydrology Indicator	Hydric Soil Indicator	Contiguous to a	Riparian Wetland Contiguous to Stream Channel? (Flow	VWR Section 4.6 Categorical	VWR Section 5 Functiona	al Criteria Presence / Significance	VHB-Proposed VWR	Typical Vegetation	Comments
					Wetland?	Regime) ³	Class II Wetlands⁴	Type ⁵	VHB-Presumed Significant?	Classification ⁶		
SW-110	21,263	PEM/PSS	Saturation (A3), Surface Water (A1)	Depleted Matrix (F3)	Yes	No	4.6a	5.1(P), 5.2(P)	Yes	II	Typha latifolia, Onoclea sensibilis, Salix bebbiana, Spiraea latifolia	Wetlands extends outside of Study Area and is located within highway median.
SW-10	7,361	PEM/PSS	Oxidized Rhizospheres on Living Roots (C3), Saturation (A3)	Redox Dark Surface (F6)	No	Yes (Intermittent)	4.6a, b	5.1(P), 5.2(P), 5.3(P), 5.4(P), 5.10(P)	Yes	II	Typha latifolia, Onoclea sensibilis, Salix bebbiana	Wetland extends outside of Study Area and generally associated with highway embankment.
SW-11	3,153	PEM	Surface Water (A1), Saturation (A3)	Depleted Matrix (F3)	Yes	No	-	5.1(L), 5.2(L)	No	Ш	Onoclea sensibilis, Spiraea alba, Solidago rugosa	Isolated feature entirely within Study Area.
SW-12	12,753	PSS	Surface Water (A1), Saturation (A3)	Redox Dark Surface (F6)	No	No	4.6a	5.1(P), 5.2(P)	Yes	II	Onoclea sensibilis, Typha latifolia	Wetland extends outside of Study Area.
SW-13	164,523	PEM/PSS	Surface Water (A1), Saturation (A3)	Depleted Below Dark Surface (A11)	Yes	No	4.6a	5.1(P), 5.2(P)	Yes	II	Salix bebbiana, Osmunda spectabilis, Onoclea sensibilis, Osmunda claytoniana	Large wetland feature. Evidence of recent ditching and drainage work observed near the northern extent of the wetland.
SW-15	12,918	PEM	Saturation (A3)	Depleted Matrix (F3)	No	No	4.6a	5.1(P), 5.2(P)	Yes	II	Phalaris arundinacea, Onoclea sensibilis, Typha latifolia	Wetland extends outside of the Study Area.
SW-303	4,118	PEM	Surface Water (A1)	Redox Dark Surface (F6)	No	No	4 .6a	5.1(P), 5.2(P)	Yes	Ш	Juncus effusus, Phalaris arundinacea	Wetland extends outside of the Study Area and connects to a larger mapped VSWI.
SW-107/407	19,693	PEM/PSS	Saturation (A3), Surface Water (A1)	Redox Dark Surface (F6)	No	Yes (Perennia l)	4.6a, b	5.1(P), 5.2(P), 5.10(P)	Yes	Ш	Equisetum arvense, Phalaris brachystachys, Onoclea sensibilis	Wetland extends outside of Study Area.
SW-302	30,084	PEM/PSS	Surface Water (A1)	Depleted Matrix (F3)	No	No	4.6a	5.1(P), 5.2(P)	Yes	II	Spiraea alba, Thelypteris palustris	Wetland extends outside of the Study Area and connects to a larger mapped VSWI.
SW-301	17,635	PEM	Surface Water (A1), Oxidized Rhizospheres on Living Roots (C3)	Depleted Dark Surface (F7)	No	No	4.6a	5.1(P), 5.2(P), 5.4(P)	Yes	II	Iris versicolor, Phalaris arundinacea	Wetland extends outside of Study Area.
HI-104	431	PEM/OW	Surface Water (A1)	Histosol (A1)	No	No	4.6a	5.1(P), 5.2(P), 5.4(P)	Yes	II	-	Wetland is likely part of past work at the adjacent gravel pit.
HI-9	694	PUB	Water-Stained Leaves (B9), Saturation (A3), Oxidized Rhizospheres on Living Roots (C3)	Redox Dark Surface (F6), Loamy Gleyed Matrix (F2), Depleted Dark Surface (F7)	No	Yes (Perennia l)	4.6b	5.1(P), 5.2(P), 5.3(P), 5.4(P), 5.10(P)	Yes	Ш	Carex crinita, Solidago gigantea, Equisetum arvense	Adjacent to stream located outside of the Study Area.
2022-HI-100	8,142	PEM	Saturation (A3), Geomorphic Position (D2), Oxidized Rhizospheres on Living Roots (C3)	Redox Dark Surface (F6)	No	Yes (Perennia l)	4.6b	5.1(P), 5.2(P), 5.3(P), 5.4(P), 5.10(P)	Yes	II	Onoclea sensibilis, Carex gynandra, Solidago canadensis	Wetland extends outside of Study Area and is associated with a stream.
ні-8	51,452	PEM	Saturation (A3), Geomorphic Position (D2), Oxidized Rhizospheres on Living Roots (C3)	Redox Dark Surface (F6)	No	Yes (Perennia i)	4.6a, b	5.1(P), 5.2(P), 5.10(P)	Yes	II	Carex scarbatta, Equisetum sylvaticum	Wetland extends outside of Study Area and is associated with Hungerford Brook.
HI-101	338	-	Surface Water (A1), Oxidized Rhizospheres on Living Roots (C3), Thin Muck Surface (C7), Iron Deposits (B5)	Redox Dark Surface (F6), Dep l eted Dark Surface (F7)	No	No	-	5.1(L), 5.2(L)	No	III	Spiraea tomentosa, Carex gynandra	Isolated feature within the Study Area.
HI-111	3,663	PEM/PSS	Saturation (A3)	Depleted Matrix (F3)	No	No	-	5.1(L), 5.2(L)	No	III	Onoclea sensibilis, Equisetum arvense, Solidago rugosa, Matteuccia struthiopteris	Isolated feature along off-ROW access.



Project: Franklin County Line Upgrade Project Client: Vermont Electric Power Company ("VELCO")

Location: Georgia to Highgate, Vermont

Prepared By: VHB (B. Galligan, K. Maines) August 3, 2023, Updated September 15, 2023

Delineation Date(s): Summer 2022, June 2023

						VHB De l i	neated Wetlands					
							Ver	mont Wetland Rules Classification				
Wetland ID	Delineated Area (Square Feet) ¹	Cowardin Classification ²	Hydrology Indicator	Hydric Soil Indicator	Contiguous to a VSWI-mapped	Riparian Wetland Contiguous to Stream Channel? (Flow	VWR Section 4.6 Categorical	VWR Section 5 Functiona	Criteria Presence / Significance	VHB-Proposed - VWR	Typical Vegetation	Comments
					Wetland?	Regime) ³	Class II Wetlands⁴	Type ⁵	VHB-Presumed Significant?	Classification ⁶		
HI-112	1,153	PEM	Oxidized Rhizospheres on Living Roots (C3), Water-Stained Leaves (B9)	Depleted Matrix (F3)	No	No	-	5.1(L), 5.2(L)	No	III	Matteuccia struthiopteris, Onoclea sensibilis, Phragmites australis	Isolated feature along off-ROW access.
HI-113	109	PEM/PFO	Water-Stained Leaves (B9)	Depleted Matrix (F3)	No	No	-	5.1(L), 5.2(L)	No	III	Matteuccia struthiopteris, Onoclea sensibilis, Phragmites australis	Isolated feature along off-ROW access.
HI-6	213,668	PEM/PSS	Saturation (A3), Surface Water (A1), Oxidized Rhizospheres on Living Roots (C3)	Depleted Matrix (F3)	Yes	Yes (Perennial)	4.6a, b	5.1(P), 5.2(P), 5.3(P), 5.4(P), 5.10(P)	Yes	П	Onoclea sensibilis, Phragmites australis, Spiraea alba,	Wetland feature extends outside of Study Area and is partially associated with man-made pond, constructed from wetland.
HI-103	3,157	PEM/PSS	Saturation (A3), Surface Water (A1)	Depleted Matrix (F3)	No	No	4.6a	5.1(P), 5.2(P)	Yes	II	Alnus incana, Onoclea sensibilis, Solidago rugosa	Wetland extends outside of Study Area.
HI-101(4)	479	PEM	Surface Water (A1), Saturation (A3)	Surface Water (A1), Saturation (A3)	No	No	-	5.1(L), 5.2(L)	No	III	Onoclea sensibilis, Eupatorium perfoliatum, Juncus effusus	Isolated feature within Study Area
HI-4	1,506	PEM	Surface Water (A1), Saturation (A3)	Depleted Dark Surface (F7)	No	No	-	5.1(L), 5.2(L)	No	III	Onoclea sensibilis, Spiraea alba	Isolated feature within Study Area
HI-3	543	PEM	Surface Water (A1), Saturation (A3)	Depleted Matrix (F3)	No	No	-	5.1(L), 5.2(L)	No	III	Onoclea sensibilis, Spiraea alba, Osmunda claytoniana, Solidago rugosa	Isolated feature, previously reviewed by ANR in 2020.
HI-102	17,736	PEM, PSS	Surface Water (A1), Saturation (A3)	Depleted Matrix (F3)	No	Yes (Intermittent)	4.6a, b	5.1(P), 5.2(P), 5.3(P), 5.4(P), 5.10(P)	Yes	II	Alnus incanca, Onoclea sensibilis, Phalaris arundinacea	Wetland extends outside of the Study Area.
HI-105	343	PEM, PSS	Surface Water (A1), Saturation (A3)	Depleted Matrix (F3)	No	No	-	5.1(L), 5.2(L)	No	III	Alnus incanca, Onoclea sensibilis, Phalaris arundinacea	Small wetland adjacent to existing access road. Isolated feature.
2020-3	36,826	PEM,PSS	Surface Water (A1), Saturation (A3)	Depleted Matrix (F3)	No	Yes (Intermittent)	4.6a, b	5.1(P), 5.2(P), 5.3(P), 5.4(P), 5.10(P)	Yes	II	Alnus incanca, Onoclea sensibilis, Phalaris arundinacea	Fringe wetland system associated with Stream 2020– SC1
2020-W1	36,649	PEM	Saturation (A3), Geomorphic Position (D2)	Depleted Matrix (F3)	No	No	4.6a	5.1(P), 5.2(P)	Yes	П	Phragmites australis, Equisetum arvense	A wetland in a depression between the Highgate substation and the road.

All wetlands field delineated per the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northeast and North Central Region. U.S. Army Corps of Engineers. 2011; Delineated Wetlands that extend outside the Study Area are denoted with **bold** text. ²Classification follows Cowardin, L.M., Carter, V., Golet, F.C. and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitat of the United States. U.S. Fish and Wildlife Service, PWS/OBD-79/31. 103pp.

Weltand contiguity to streams as defined in the Vermont ANR (2005) Guidance for Agency Act 250 and Section 248 Comments Regarding Riparian Buffers and confirmed if a delineated perennial or intermittent stream channel inflows, through flows, and outflows from a delineated wetland (ephemeral channels not typically being subject to ANR Riparian Buffer Guidance). The vegetative assemblage or natural community type is used when determining riparian vegetation function. Flow regime determined based on qualitative observations of instream hydrology indicators and geomorphic characteristic and are subject to professional judgment (P=perennial, I=intermittent, E=phemeral).

*WR Section 5: Functional Criteria for Evaluating a Welland's Significance: 5.1=Water Storage for Hood Water and Storm Runoff, 5.2=Surface and Groundwater Protection, 5.3=Fish Habitat, 5.5=Exemplary Wetland Natural Community, 5.6=Rare, Threatened or Endangered Species Habitat, 5.7=Education and Research in Natural Sciences, 5.8=Recreational Value and Economic Benefits, 5.9=Open Space and Aesthetics, 5.10=Erosion Control Through Binding and Sabilizing the Soil (P)= Present, (H)=High, (L)=Low, Correspond to observed level of functionality.



Summary of Delineated Streams

Project: Franklin County Line Upgrade Project **Client:** Vermont Electric Power Company ("VELCO"**)**

Location: Georgia to Highgate, Vermont

Prepared By: VHB (B. Galligan, K. Maines) August 3, 2023, Updated September 15, 2023

						VHB Delineated	d Streams					
Stream ID	Stream Name	Associated Wetlands	Average Ordinary High Water Width (Feet) ¹	Dominant Substrate	Water Depth (Inches)	Bank Height (Feet)	Flow Regime (Ephemeral, Intermittent, or Perennial) ²	ANR-Mapped River Corridor? (Yes/No)	VHB-Proposed River Corridor (Yes/No)	Watershed Size (Square Miles) ³	VWQS Classification (2022) ⁴	Comments
2020-SC1	-	2020-3	3.0	Clay	4	1.0	Intermittent	No	Yes	0.1	В	A stream that cuts across the study area.
S-SA-211	-	SA-402(2)	2.0	Silt	1	1.5	Ditch (Intermittent)	No	No	<0.05	В	A ditch associated with agriculture that crosses the Study Area.
S-GE-1	Mill River	-	30.0	Sand	4	2.0	Perennia l	Yes	Yes	22.1	В	Mill River intersects the Study Area.
S-GE-101	-	GE-308	0.5	Silt	1	2.0	Ditch (Intermittent)	No	No	<0.05	В	A jurisdictional ditch that drains 2022-GE-308 to S-GE- 307
S-GE-302	Stone Bridge Brook	GA-1	6.5	Silt	42	1.0	Perennial	Yes	Yes	5.57	В	A stream that crosses the Study Area through wetland GA-1
S-GE-303	-	GE-302	2.0	Organic	3	3.0	Perennial	No	Yes	1.28	В	A stream that crosses the Study Area through wetland GE-302
S-GE-305	-	GE-305	0.5	Silt	2	2.0	Ditch (Intermittent)	No	No	.18	В	A stream that drains GE-305.
S-GE-JD-306	-	GE-306	0.5	Silt	4	2.0	Ditch (Ephemeral)	No	No	<0.05	В	Feature extends beyond Study Area.
S-GE-307	-	-	20.0	Silt	12	4.0	Perennial	Yes	Yes	2.71	В	A stream that crosses the Study Area.
S-GE-308	Mill River	GE-310, 312	16.5	Boulders	9	8.5	Perennia l	Yes	Yes	6.83	В	The Mill River crossing the Study Area.
S-GE-310	-	2022-GE-313	5.0	Organic	3	4.0	Ditch (Intermittent)	No	No	0.064	В	Jurisdictional ditch associated with GE-313. The ditch also crosses the nearby access road.
S-GE-311	-	-	6.0	Sand	1	5.0	Intermittent	No	No	0.15	В	A stream crossing the Study area associated with agriculture field.
S-HI-100		HI-102	3.0	Clay	2	3.0	Intermittent	No	No	<0.05	В	A small stream draining wetland HI-102



Summary of Delineated Streams

Project: Franklin County Line Upgrade Project **Client:** Vermont Electric Power Company ("VELCO"**)**

Location: Georgia to Highgate, Vermont

Prepared By: VHB (B. Galligan, K. Maines) August 3, 2023, Updated September 15, 2023

						VHB Delineated	l Streams					
Stream ID	Stream Name	Associated Wetlands	Average Ordinary High Water Width (Feet) ¹	Dominant Substrate	Water Depth (Inches)	Bank Height (Feet)	Flow Regime (Ephemeral, Intermittent, or Perennial) ²	ANR-Mapped River Corridor? (Yes/No)	VHB-Proposed River Corridor (Yes/No)	Watershed Size (Square Miles) ³	VWQS Classification (2022) ⁴	Comments
S-HI-101	-	HI-6	4.0	Organic	1	2.0	Non-Jurisdictional Ditch (Ephemeral)	No	No	<0.05	В	NJD associated with drainage pipe from overland flow.
S-HI-110	-	-	3.0	Organic	1	3.0	Non-Jurisdictional Ditch (Ephemeral)	No	No	<0.05	В	NJD associated with a access road.
S-HI-2	Missisquoi River	-	125.0	Bedrock	48+	10.0	Perennia l	Yes	Yes	817	В	Also mapped as TOS for the Missisquoi River
S-HI-3		HI-6	1.0	Si l t	2	0.5	Intermittent and Perennial segments	No	No	<0.05	В	A stream associated with HI-6
S-HI-30		HI-6	4.0	Sand	2	7.0	Perennia l	No	Yes	<0.05	В	A stream draining ponded wetland HI-6
S-HI-4	Hungerford Brook	HI-8	20.0	Cobble	5	24.0	Perennial	Yes	Yes	19.4	В	The Hungerford Brook that bisects the Study Area and drains to the Missisquoi River.
S-HI-5		HI-100, 9	4.0	Sand	14	0.5	Perennial	No	Yes	0.69	В	A stream that crosses the Study Area associated with 2022-HI- 100.9
S-SA-1	-	SA-3(2)	5.0	Sand	5	2.0	Perennia l	No	Yes	1.41	В	A stream that crosses the Study Area and is associated with SA- 3(2).
S-SA-1000	-	-	2.5	Si l t	1	6.0	Ditch (Intermittent)	No	No	.27	В	A jurisdictional ditch across a access road.
S-SA-2	-	SA-8	3.0	Sand	8	1.0	Perennia l	No	Yes	.93	В	A stream associated with SA-8
S-SA-200	-	2022-SA-2(2)	2.0	Sand	1	0.3	Ephemeral	No	No	<0.05	В	Small ephemeral seep stream in wetland SA-2(2)
S-SA-210	-	2022-SA-7	2.0	Clay		1.0	Ditch (Intermittent)	No	No	<0.05	В	Ditch draining to 2022-SA-7 and 402 adjacent to residential yards.
S-SA-3	-	SA-9	3.0	Silt	8	0.3	Perennia l	No	Yes	.33	В	A small stream associated with wetland SA-9



Summary of Delineated Streams

Project: Franklin County Line Upgrade Project **Client:** Vermont Electric Power Company ("VELCO"**)**

Location: Georgia to Highgate, Vermont

Prepared By: VHB (B. Galligan, K. Maines) August 3, 2023, Updated September 15, 2023

Delineation Date(s): Summer 2022, June 2023

						VHB Delineated	d Streams					
Stream ID	Stream Name	Associated Wetlands	Average Ordinary High Water Width (Feet) ¹	Dominant Substrate	Water Depth (Inches)	Bank Height (Feet)	Flow Regime (Ephemeral, Intermittent, or Perennial) ²	ANR-Mapped River Corridor? (Yes/No)	VHB-Proposed River Corridor (Yes/No)	Watershed Size (Square Miles) ³	VWQS Classification (2022) ⁴	Comments
S-SA-4	Stevens Brook	SA-11	25.0	Cobb l e	9	3.5	Perennia l	Yes	Yes	7.1	В	Stevens Brook intersects the Study Area.
S-SA-400	-	SA-7	2.0	Clay	-	1.0	Ditch (Intermittent)	No	No	<0.05	В	Ditch draining to 2022-SA-7 and 402 adjacent to residential yards.
S-SA-5	-	SA-14	1.0	Sand	10	0.5	Intermittent	No	No	.1	В	A stream that bisects the Study Area associated with SA-14
S-SA-6	-	SA-15	0.5	Sand	4	0.3	Intermittent	No	No	.08	В	A stream that bisects the Study Area associated with SA-15
S-SW-1	-	SW-2	1.0	Sand	4	2.0	Ditch (Intermittent)	No	No	<0.05	В	Small jurisdictional ditch associated with wetland SW-2
S-SW-JD-101	-	-	4.0	Sand	4	4.0	Ditch (Perennial)	No	No	<0.05	В	A jurisdictional ditch across a access road.
S-SW-102	-	-	4.0	Sand	3	3.0	Ditch (Perennial)	No	No	<0.06	В	A jurisdictional ditch across a access road.
S-SW-2	-	SW-10	3.0	Si l t	7	1.0	Intermittent	No	No	.72	В	A stream adjacent to the highway associated with SW-10.
SW-302	-	SW-107/407	2.0	Organic	3	9.0	Perennial	No	Yes	0.07	В	A stream that bisects the Study Area and access road associated with wetlands 406
S-SW-510	-	-	-	Organic	-	-	Ditch (Ephemeral)	No	No	<0.05	В	A Jurisdictional ditch through farmland.

Notes:

¹ U.S. Army Corps of Engineers. 2005. *Regulatory Guidance Letter. Subject: Ordinary High Water Mark Identification.* No. 05-05.

² Stream flow regime determined based on qualitative observations of in stream hydrology indicators and geomorphic characteristic and are subject to professional judgment.

³ Watershed size determined from Vermont Agency of Natural Resources ("ANR") Stream Alteration Regulatory Program mapping or USGS Stream Stats

⁴From ANR. 2022. Vermont Water Quality Standards. 303(d) Assessment of the Condition of Vermont Waters. Priority Listing of Vermont Waters. Vermont Department of Environmental Conservation.

⁵ List of River Corridors from the ANR Atlas.

⁶ Determined through guidance from Vermont ANR (2005) Guidance for Agency Act 250 and Section 248 Comments Regarding Riparian Buffers.





Project Site:	K42			City/(County:	Georgia	/Franklin		Samp. Date: 5/3	17/2022
Applicant/Owner:	Velco			,	_	State:	Vermont	Sampling Point:		GA-1Up
Investigator(s):	LK				Section	. Townsł	nip, Range:	 Georgia		
Landform (hillslope, to		Terrace		Log	al relief	(concave, c	onvex, none):	Convex	Slope (%):	0-2
Subregion (LRR or		LRR R	Lat	: 44.7	16447		Long:	-73.153055	Datum:	NAD 83
Soil Map Unit:		Variant silt loan				.,	/16		NWI Class:	Upland
			typical for this time of ye	ear?		Yes	. (If no, e	xplain in Remarks.)		Vaa
Are Vegetation, Soi Are Vegetation, Soi			70000					_	rcumstances? xplain any answe	Yes
Are vegetation, sor	i, or riyaro	logy naturally pr	oblematic: NO						Apiairi arry arrawc	irs iir Kernarks.,
SUMMARY OF	FINDING	iS - Attach si	te map showing sai	mnle	point l	ocation	is transe	cts, important fe	atures etc.	
Hydrophytic Vegeta			NO		роше		15) (141150	ets) iii portaire rei	20, 20,	
Hydric Soil Present?			YES				Is This	Sample Area Within	a Wetland?	NO
Wetland Hydrology		•	NO							
Remarks:										
HYDROLOGY										
Wetland Hydrology	Indicators	:						Secondary Indicator	rs (minimum of t	wo required)
			ed; check all that apply)					Surface Soil Cr		
Surface Water	(A1)		Water-Stained Leav	es (B9)			•	Drainage Patte	erns (B10)	
High Water Ta	ıble (A2)	•	Aquatic Fauna (B13)				Moss Trim Line	es (B16)	
Saturation (A3	5)		Marl Deposits (B13))				Dry-Season W	ater Table (C2)	
Water Marks			Hydrogen Sulfide O					Crayfish Burro		
Sediment Dep			Oxidized Rhizosphe		-	s (C3)			ible on Aerial (C9)	
Drift Deposits			Presence of Reduce			(CC)			essed Plants (D1)	
Algal Mat or C Iron Deposits			Recent Iron Reducti Thin Muck Surface (ilea Solis ((6)		Geomorphic P Shallow Aguit		
Inundation Vis		ial (B7)	Other (Explain in Re						ohic Relief (D4)	
		ave Surface (B8)	Other (Explain in ite	.marks,				FAC-Neutral T		
Field Observations:							ı			
Surface Water Pres	ent?		Depth (inches)							
Water Table Presen			Depth (inches)	_			Wetlan	d Hydrology Present?		NO
Saturation Present?	?		Depth (inches)					, 5,		
Remarks:		prior, 1 201 old	5" for the week ending	 3,		eur noi		,		
SOIL										
Profile Description:	(Describe	to the depth nee	eded to document the in	dicato	r or confi	rm the a	bsence of in	dicators.)		
Depth	Matrix		Re	dox Fe	eatures					
(in) Color (moist)		Color (moist)		%	Type ¹	Loc	Texture	Rer	narks
3-14 10YF	3/2 26/1	$-\frac{100}{98}$	10YR 5/3		2			SILT LOAM SILT LOAM		
3-14 1011	. 0, 1		101113/3			_		JILI LOAW		
¹ Type: C=Concentration,	D=Depletion	, RM=Reduced Matr	ix, MS=Masked Sand Grains.					² Location: PL=Pore Lining	g, M=Matrix.	
Hydric Soil Indicato	rs:							Indicators for Probl	ematic <u>Hydric</u> Soi	ls ³ :
Histosol (A1)			Polyvalue B	elow Su	rface (S8)	(LRR R,		2 cm Muck (A:	10) (LRR K, L, MLRA	149B)
Histic Epipedo	n (A2)		MLRA 149	9B)				Coast Prairie E	Redox (A16) (LRR K,	L, R)
Black <u>Histic</u> (A	3)		Thin Dark S	urface (S9) (LRR R	, MLRA 14	19B)	5 cm Mucky P	eat or Peat (S3) (LR	R K, L, R)
Hydrogen Sulf			Loamy Muc	ky Mine	eral (F1) (L	RR K, L)		Dark Surface (S9) (LRR K, L, M)	
Stratified Laye	. ,		Loamy Gley						ow Surface (S8) (LRF	R K, L)
Depleted Belo		ace (A11)	X Depleted M						ace (S9) (LRR K, L)	
Thick Dark Sur			Redox Dark						se Masses (F12) (LF	
Sandy Mucky		,	Depleted Da						odplain Soils (F19) (I	
Sandy Gleyed Sandy Redox (nedox pepi	C331U115	(10)			Red Parent Ma	TA6) (MLRA 144A, aterial (F21)	1-3, 1-30/
Stripped Matr			311	ndicato	rs of hydr	phytic va	getation and		Dark Surface (TF12)	
Dark Surface (MLRA 149B)					esent, unless	Other (Explain		
		<u>, </u>				•	problematic.			
Restrictive Layer (if	observed)	:								
	Bedrock							Hydric	Soil Present?	YES
Depth (inches):	14"							<u> </u>		
Remarks:										

	Absolute	Dom.	Indicator	
Tree Stratum (Plot size:	% Cover	Sp?	Status	<u>Dominance</u> Test Worksheet:
1				# Dominants OBL, FACW, FAC:(A)
2				
3				# Dominants across all strata: 1 (B)
4				
5				% Dominants OBL, FACW, FAC:(A/B)
6.				Para de a se la dese Més dels este
7			Cover	Prevalence Index Worksheet:
Sapling Stratum (Plot size: 15' RAD)		= Total	cover	Total % Cover of: OBL x 1 = Multiply By:
				OBL x1 = 6
2				FAC 3 x3 = 9
2				FACU 68 x 4 = 272
4.				<u>UPL</u> <u>x</u> 5 =
5.				Sum: 74 (A) 287 (B)
6.				
7.				Prevalence Index = B/A =3.88
		= Total	Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size:15' RAD)				Dominance Test is > 50%
1				Prevalence Index is <= 3.0
2				Problematic <u>Hydrophytic</u> Vegetation ¹ (explain)
3				Rapid Test for Hydrophytic Vegetation
4				Morphological Adaptations
5				¹ Indicators of <u>hydric</u> soil and wetland hydrology must be present,
6. 7.				unless disturbed or problematic. Definitions of Vegetation Strata:
/	- ——	= Total	Cover	Definitions of Vegetation Strata.
Herb Stratum (Plot size: 5' RAD)		- Total	Cover	Tree - Woody plants, excluding woody vines, approximately 20ft
1. Rubus idaeus	65	х	FACU	(6m) or more in height and 3in (7.6cm) or larger in diameter at
	3		FACIL	breast height (DBH).
2. Kupus aliegneniensis	3		FACU	S. SEET IS IN LESS IN
Rubus allegheniensis Equisetum sylvaticum	3		FACW	a see see the fact it.
	- — —			Sapling - Woody plants, excluding woody vines, approximately
3. Equisetum sylvaticum	3		FACW	
Equisetum sylvaticum Fallopia scandens	3		FACW	Sapling - Woody plants, excluding woody vines, approximately
 3. Equisetum sylvaticum 4. Fallopia scandens 5. 6. 7. 	3		FACW	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH.
Equisetum sylvaticum Eallopia scandens Control Equisetum sylvaticum Eallopia scandens Equisetum sylvaticum Eallopia scandens Equisetum sylvaticum Eallopia scandens Eallopia scandens Eallopia scandens	3 3		FACW	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to
3. Equisetum sylvaticum 4. Fallopia scandens 5. 6. 7. 8. 9.	3 3		FACW	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH.
3. Equisetum sylvaticum 4. Fallopia scandens 5. 6. 7. 8. 9. 10.	3 3		FACW	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.
3. Equisetum sylvaticum 4. Fallopia scandens 5. 6. 7. 8. 9. 10. 11.	3 3		FACW	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous
3. Equisetum sylvaticum 4. Fallopia scandens 5. 6. 7. 8. 9. 110.	3 3		FACW FAC	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.
3. Equisetum sylvaticum 4. Fallopia scandens 5. 6. 7. 8. 9. 10. 11. 12.	3 3	= Total	FACW FAC	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody
3. Equisetum sylvaticum 4. Fallopia scandens 5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size:)	3 3	= Total	FACW FAC	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody
3. Equisetum sylvaticum 4. Fallopia scandens 5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size:) 1.	3 3	= Total	FACW FAC	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.
3. Equisetum sylvaticum 4. Fallopia scandens 5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size:) 1. 2.	3 3	= Total	FACW FAC	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody
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3. Equisetum sylvaticum 4. Fallopia scandens 5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size:) 1. 2.	3 3	= Total	FACW FAC	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.
3. Equisetum sylvaticum 4. Fallopia scandens 5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4.	3 3	= Total	FAC	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height. Woody vine - All woody vines, regardless of height. Hydrophytic Vegetation
3. Equisetum sylvaticum 4. Fallopia scandens 5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4.	3 3	<u> </u>	FAC	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH. Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height. Woody vine - All woody vines, regardless of height. Hydrophytic Vegetation
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2022-GA-1Wet

Project Site:	K42			City/County:	Georgia	/Franklin		Samp. Date: 5/3	17/2022
Applicant/Owner:	Velco			- city, county.	State:	Vermont	Sampling Point:		iA-1Wet
Investigator(s):	RS			Section	, Townsl	nip, Range:	 Georgia		
Landform (hillslope, t		Swale		Local relief	(concave, o	onvex, none):	Concave	Slope (%):	0-2
Subregion (LRR or		LRR R	Lat:	44.716501		Long:	-73.153122	Datum:	NAD 83
Soil Map Unit:		Variant silt loan		2		/16		NWI Class:	PEM
			typical for this time of ye	ar <u>r</u>	Yes	- (IT no, e	xplain in Remarks.)	reumetaneoe?	Voc
Are Vegetation, Soil Are Vegetation, Soil			70000				_	rcumstances? explain any answe	Yes
Are vegetation, 30	ii, oi iiyaio	logy naturally pr	oblematic: NO					Apiaiii aiiy aiiswc	.13 III Nemarks.,
SUMMARY OF	FINDING	iS - Attach si	te map showing sar	nple point l	ocation	is, transe	cts, important fea	atures, etc.	
Hydrophytic Vegeta			Yes		T	,	,,		
Hydric Soil Present			YES			Is This	Sample Area Within	a Wetland?	Yes
Wetland Hydrology	/ Present?		YES				•		
Remarks:									
HYDROLOGY									
Wetland Hydrology	/ Indicators	:					Secondary Indicator	rs (minimum of t	wo required)
			ed; check all that apply)				Surface Soil Cr		
Surface Wate	r (A1)		Water-Stained Leave	es (B9)		-	X Drainage Patte	erns (B10)	
X High Water Ta	able (A2)	•	Aquatic Fauna (B13)				Moss Trim Lin	es (B16)	
X Saturation (A:	3)		Marl Deposits (B13)				Dry-Season W	ater Table (C2)	
Water Marks			Hydrogen Sulfide Oc				Crayfish Burro		
Sediment Dep		,	Oxidized Rhizospher		ts (C3)			ible on Aerial (C9)	
Drift Deposits			Presence of Reduce		(CC)			essed Plants (D1)	
Algal Mat or 0 Iron Deposits			Recent Iron Reduction Thin Muck Surface ((C6)		Geomorphic P Shallow Aguit		
Inundation Vi		al (B7)	Other (Explain in Re	•				phic Relief (D4)	
		ive Surface (B8)	Other (Explain in Net	marks)			FAC-Neutral T		
Field Observations:						1			
Surface Water Pres			Depth (inches):	:					
Water Table Preser		x	Depth (inches):	Surface		Wetlan	d Hydrology Present?		YES
Saturation Present	?		Depth (inches):						
	•		oring well, aerial photos, 5" for the week ending		•		1		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, 0, _0,					
Remarks:									
SOIL									
Profile Description:	: (Describe	to the depth ner	eded to document the inc	dicator or conf	irm the a	bsence of in	dicators.)		
Depth	Matrix		<u>Re</u>	dox Features					
(in) Color	(moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rei	marks
	R 2/1	100			=		MUCKY LOAM		
	4/1	100					MUCKY LOAM		
8-14 5y	5/1			- — —					
				- — —					
¹ Type: C=Concentration	, D=Depletion	, RM=Reduced Matr	ix, MS=Masked Sand Grains.				² Location: PL=Pore Lining	g, M=Matrix.	
Hydric Soil Indicato	rs:						Indicators for Probl	ematic Hydric Soi	ils ³ :
X Histosol (A1)			Polyvalue Be	elow Surface (S8)) (I RR R.		2 cm Muck (A	10) (LRR K, L, MLRA	149B)
X Histic Epipedo	on (A2)		MLRA 149		, (=,			Redox (A16) (LRR K,	•
Black <u>Histic</u> (A	1 3)		Thin Dark Su	ırface (S9) (LRR R	R, MLRA 14	19B)	5 cm Mucky P	eat or Peat (S3) (LR	R K, L, R)
Hydrogen Sul	fide (A4)		Loamy Muck	ky Mineral (F1) (L	LRR K, L)		Dark Surface ((S9) (LRR K, L, M)	
Stratified Laye	ers (A5)			ed Matrix (F2)			Polyvalue Belo	ow Surface (S8) (LRF	R K, L)
Depleted Belo		ace (A11)	X Depleted Ma					face (S9) (LRR K, L)	
Thick Dark Su			Redox Dark					ese Masses (F12) (LF	
Sandy Mucky				rk Surface (F7)				odplain Soils (F19) (I	
Sandy Gleyed			Redox Depre	essions (F8)				(TA6) (MLRA 144A,	145, 1498)
Sandy Redox Stripped Mati			3,	dicators of hydro	onhydia : :	gotation and	Red Parent Ma	ateriai (F21) Dark Surface (TF12)	
Dark Surface		MLRA 149B)		land hydrology n		-	Other (Explain		
	,		wet		•	problematic.			
Restrictive Layer (if	observed)	:		3.10					
Туре							Hydric	Soil Present?	YES
Depth (inches):	<u>:</u>						<u> </u>		
Remarks:									

Tree Stratum (Plot size:	Absolute	Dom.	Indicator			
	% Cover	Sp?	Status	Dominance Test Worksheet:		
1.				# Dominants OBL, FACW, FAC:	4	(A)
2.						_
3.				# Dominants across all strata:	4	(B)
4.						_
E				% Dominants OBL, FACW, FAC:	100%	(A/B)
6.						_` ` `
7.				Prevalence Index Worksheet:		
		= Tota	Cover	Total % Cover of:	ultiply By	:
Sapling Stratum (Plot size: 15' RAD)				OBL 71 × 1 =	71	_
				FACW 97 x 2 =	194	_
				FAC 15 x3 =	45	_
2				FACU x4 =		_
				UPL x5 =		_
				Sum: 183 (A)	310	— (В)
					310	- ^(b)
6. 7.				Prevalence Index = B/A =	1.69	
/·				Prevalence Index = B/A =	1.09	_
		= Tota	Cover	Hydrophytic Vegetation Indicators:		
Shrub Stratum (Diatoire) 15' DAD		- 101a	COVE	-		
Shrub Stratum (Plot size: 15' RAD)	15	v	FACIAL	X Dominance Test is > 50%		
1. <u>Spiraea</u> alba		<u>x</u>	FACW	Prevalence Index is <= 3.0	1 ,	.
2.				Problematic Hydrophytic Vege		(plain)
3.				Rapid Test for Hydrophytic Ve	getation	
4				Morphological Adaptations		
5				¹ Indicators of <u>hydric</u> soil and wetland hydrolog	y must be p	esent,
6				unless disturbed or problematic.		
7				Definitions of Vegetation Strata:		
	15	= Tota	l Cover			
Herb Stratum (Plot size: 5' RAD)				Tree - Woody plants, excluding woody vines,		
1. Onoclea sensibilis	38	X	FACW	(6m) or more in height and 3in (7.6cm) or large breast height (DBH).	er in diamete	er at
2. Impatiens capensis	38	x	FACW	breast neight (Don).		
3. <u>Typha</u> latifolia	38	X	OBL			
4. Calamagrostis canadensis	15		OBL	Sapling - Woody plants, excluding woody vin	nes, approxi	nately
5. Juncus effusus			OBL	20ft (6m) or more in height and less than 3in (7	7.6cm) DBH.	
6. Solidago rugosa	<u> 15</u>		FAC			
			FACW			
7. Stellaria borealis				Let with the second second		
7. Stellaria borealis 8. Epilobium hirsutum			FACW	Shrub - Woody plants, excluding woody vine	s, approxim	ately 3 to
8. Epilobium hirsutum	3 3		OBL	20ft (1 to 6m) in height.	s, approxim	ately 3 to
Epilobium hirsutum Persicaria sagittata					s, approxim	ately 3 to
Epilobium hirsutum Persicaria sagittata		<u>_</u>		20ft (1 to 6m) in height.		
8. Epilobium hirsutum 9. Persicaria sagittata 10.		<u></u>			cluding herb	paceous
Epilobium hirsutum Persicaria sagittata	3	= Total	OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in	cluding herb	paceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12.		= Tota	OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants	cluding herb	oaceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:)	3	= Total	OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants	cluding herb	paceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1.	3	= Tota	OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in heigh	cluding herk s, except wo ht.	paceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2.	3	= Total	OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants	cluding herk s, except wo ht.	paceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3.	3	= Total	OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless o	cluding herk s, except wo ht.	paceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4.	3	= Tota	OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless of the description of the control	cluding herk s, except wo ht.	paceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3.	3		OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless of the decomposition of the	cluding herk s, except wo ht.	paceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4.	3	= Total	OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless of the description of the control	cluding hert s, except wo ht. f height.	oaceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4. 5.	3		OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless of the decomposition of the	cluding hert s, except wo ht. f height.	oaceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4.	3		OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless of the decomposition of the	cluding hert s, except wo ht. f height.	oaceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4. 5.	3		OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless of the decomposition of the	cluding hert s, except wo ht. f height.	oaceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4. 5.	3		OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless of the decomposition of the	cluding hert s, except wo ht. f height.	oaceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4. 5.	3		OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless of the decomposition of the	cluding hert s, except wo ht. f height.	oaceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4. 5.	3		OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless of the decomposition of the	cluding hert s, except wo ht. f height.	oaceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4. 5.	3		OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless of the decomposition of the	cluding hert s, except wo ht. f height.	oaceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4. 5.	3		OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless of the decomposition of the	cluding hert s, except wo ht. f height.	oaceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4. 5.	3		OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless of the decomposition of the	cluding hert s, except wo ht. f height.	oaceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4. 5.	3		OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless of the decomposition of the	cluding hert s, except wo ht. f height.	oaceous
8. Epilobium hirsutum 9. Persicaria sagittata 10. 11. 12. Woody Vines (Plot size:) 1. 2. 3. 4. 5.	3		OBL	20ft (1 to 6m) in height. Herb - All herbaceous (non-woody) plants, in vines, regardless of size. Includes woody plants vines, less than approximately 3ft (1m) in height woody vine - All woody vines, regardless of the decomposition of the	cluding hert s, except wo ht. f height.	oaceous

2022-GE-304-Up

oject Site:				City/County:	Georgia	/Franklin		Samp. Date:	5/18/2022
oplicant/Owner:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				State:	Vermont	Sampling Point	: 2022-	GE-304-Up
vestigator(s): ndform (hillslope,	LK	Taurasa				nip,Range: _ onvex, none):	Georgia	Slope (%):	0-6
bregion (LRR c		LRR R		Lat: 44.726293	(concave, c	Long:	-73.149254		NAD 83
il Map Unit:		Loamy fine sand	<u> </u>	44.720233			70.2.10201	NWI Class:	Upland
			ypical for this time	of year?	Yes	(If no, e	xplain in Remarks.)		
e Vegetation, So	oil, or Hydrol	ogy significantly	disturbed?	No.			Normal C	Circumstances?	Yes
Vegetation, So	oil, or Hydrol	ogy naturally pro		No			(If needed,	explain any ansi	wers in Remai
			•				_		
IMMARY OF	F FINDING	S - Attach sit	e map showing	g sample point l	locatior	is, transe	cts, important fe	eatures, etc.	
drophytic Vege	tation Preser	nt?	NO				· · · · ·		
dric Soil Presen	nt?	-	NO			Is This	Sample Area Withi	n a Wetland?	NO
etland Hydrolog	gy Present?	_	NO					_	
emarks:									
YDROLOGY									
tland Hydrolog							Secondary Indicat		two required
	•	of one is require	d; check all that app	··			Surface Soil		
Surface Wat	7 7	-	Water-Stained				Drainage Pat		
High Water		-	Aquatic Fauna				Moss Trim Li	, ,	
Saturation (/		-	Marl Deposits					Water Table (C2)	
Water Mark Sediment De		-	Hydrogen Sulfi		nts (C3)		Crayfish Buri		1
Drift Deposit		-		spheres on Living Roo educed Iron (C4)	, co (CO)			isible on Aerial (C9 tressed Plants (D1)	•
Algal Mat or		-		eduction in Tilled Soils	(C6)			Position (D2)	
Iron Deposit		-	Thin Muck Sur		(00)		Shallow Agu		
	Visible on Aeria	al (B7)	Other (Explain					aphic Relief (D4)	
		ve Surface (B8)		,			FAC-Neutral		
ld Observation	c·								
id Obscivation	э.								
rface Water Pre	esent?		Depth (inc	ches):					
			Depth (inc Depth (inc	·		Wetland	d Hydrology Present	?	NO
	ent? nt? d Data (strea		Depth (inc Depth (inc oring well, aerial ph	ches):	•	f available:	d Hydrology Present	? _	NO
ater Table Prese turation Presen escribe Recorde 39" of Rain in marks:	ent? it? d Data (strea the 5 days ¡	orior; PDSI 0.85	Depth (inc Depth (inc oring well, aerial ph " for the week er	ches): ches): notos, previous insp nding in 5/20/22 r	near norr	f available: mal (NOAA)	? _	NO
ater Table Prese turation Presen scribe Recorde 39" of Rain in marks:	ent? ht? d Data (strea the 5 days p	orior; PDSI 0.85	Depth (inc Depth (inc oring well, aerial ph " for the week er	ches): ches): notos, previous insp nding in 5/20/22 r	near norr	f available: mal (NOAA)	? _	NO
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one: C=Concentration	ent? tt? d Data (strea the 5 days p n: (Describe t	o the depth nee	Depth (inc	ches): ches): ches): ches): ches): ches): chesic inspection inspection inspection in 5/20/22 r che indicator or conf Redox Features % 20	firm the a	f available: nal (NOAA bsence of in Loc ²	dicators.) Texture SILT LOAM SILT LOAM	ng, M=Matrix.	emarks
ater Table Preseturation Presenturation Presenturat	ent? tt? d Data (strea the 5 days p n: (Describe t Matrix r (moist) YR 3/2 YR 3/4 on, D=Depletion, tors:	o the depth nee	Depth (inc	thes): ches): ch	firm the a	f available: nal (NOAA bsence of in Loc²	dicators.) Texture SILT LOAM SILT LOAM	ng, M=Matrix.	iemarks ioils ³ :
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oter Table Preservation Presents received Recorder Recorder Reservation Presents received Recorder Rec	ent? it? d Data (strea the 5 days p n: (Describe t	o the depth nee	Depth (inc	thes): ches): ch	firm the a	f available: mal (NOAA bsence of in Loc² M	dicators.) Texture SILT LOAM SILT LOAM Indicators for Protection 2 cm Muck (, Coast Prairie	ng, M=Matrix.	iemarks Soils ³ : RA 149B) K, L, R)
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ter Table Preseuration Presenter Table Present	ent? tt? d Data (strea the 5 days p n: (Describe t	o the depth nee	Depth (inc	ches): ch	firm the a Type ¹ C (LRR R,	f available: mal (NOAA bsence of in Loc² M	dicators.) Texture SILT LOAM SILT LOAM 2 Location: PL=Pore Lini Indicators for Prob 2 cm Muck (Coast Prairie 5 cm Mucky Dark Surface	ng, M=Matrix. olematic Hydric S A10) (LRR K, L, MLF e Redox (A16) (LRR Peat or Peat (S3) (iemarks ioils ³ : RA 149B) K, L, R) LRR K, L, R)
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ter Table Preseuration Presenter Table Present	ent? tt? d Data (strea the 5 days p n: (Describe t	o the depth nee	Depth (inc	he indicator or conf Redox Features % 20 ins. lue Below Surface (S8 iA 149B) ark Surface (S9) (LRR if Mucky Mineral (F1) (i) Gleved Matrix (F2)	firm the a Type ¹ C (LRR R,	f available: mal (NOAA bsence of in Loc² M	Texture SILT LOAM SILT LOAM **Indicators for Prob 2 cm Muck (, Coast Prairie 5 cm Mucky Dark Surface Polyvalue Be Thin Dark Su	ng, M=Matrix. Dlematic Hydric S A10) (LRR K, L, MLF Redox (A16) (LRR Peat or Peat (S3) (2 (S9) (LRR K, L, M)	iemarks ioils ³ : RA 149B) K, L, R) LRR K, L, R) RR K, L, R)
nter Table Preservation Presenter Table Preservation Presenter Recorder Rec	ent? tt? d Data (strea the 5 days p n: (Describe t	o the depth nee	Depth (inc	thes): ches): ch	firm the a Type ¹ C (LRR R,	f available: mal (NOAA bsence of in Loc² M	Jexture SILT LOAM SILT LOAM SILT LOAM 2Location: PL=Pore Lini Indicators for Prot 2 cm Muck (Coast Prairie 5 cm Mucky Dark Surface Polyvalue Be Thin Dark Su	ng, M=Matrix. Jolematic Hydric S A10) (LRR K, L, ML Redox (A16) (LRR Peat or Peat (S3) ((59) (LRR K, L, M) clow Surface (S8) (L	iemarks ioils ³ : RA 149B) K, L, R) LRR K, L, R) .RR K, L, R) (LRR K, L, R)
ater Table Preservation Presenter Table Preservation Presenter Recorder Rec	ent? tt? d Data (strea the 5 days p n: (Describe t Matrix r (moist) YR 3/2 YR 3/4 on, D=Depletion, tors:) don (A2) (A3) ulfide (A4) yers (A5) elow Dark Surface furface (A12)	o the depth nee	Depth (inc	thes): ches): ch	firm the a Type ¹ C (LRR R,	f available: mal (NOAA bsence of in Loc² M	dicators.) Texture SILT LOAM SILT LOAM 2Location: PL=Pore Lini Indicators for Prot 2 cm Muck (Coast Prairie 5 cm Mucky Dark Surface Polyvalue Be Thin Dark Su Iron-Mangar Piedmont Fle	ng, M=Matrix. Dlematic Hydric S A10) (LRR K, L, MLF Redax (A16) (LRR Peat or Peat (S3) (5 (S9) (LRR K, L, M) Flow Surface (S8) (LF	coils ³ : RA 149B) K, L, R) LRR K, L, R) (LRR K, L, R) (LRR K, L, R)
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ater Table Presecuration Present Scribe Recorder S9" of Rain in marks: OIL offile Description pth	ent? tt? d Data (strea the 5 days p n: (Describe t	o the depth nee % 100 80 RM=Reduced Matrix	Depth (inc	he indicator or configuration in S/20/22 rd in S/20/20 in S/20	firm the a Type¹ C (LRR R, MLRA 14 LRR K, L)	f available: mal (NOAA bsence of in Loc² M 9B)	dicators.) Texture SILT LOAM SILT LOAM 2 Location: PL=Pore Lini Indicators for Prob 2 cm Muck (Coast Prairie 5 cm Mucky Dark Surface Polyvalue Be Thin Dark Su Iron-Mangar Piedmont Fic Mesic Spodic Red Parent N Very Shallow	ng, M=Matrix. plematic Hydric S A10) (LRR K, L, MLF Redox (A16) (LRR Peat or Peat (S3) ((S9) (LRR K, L, M) clow Surface (S8) (L rface (S9) (LRR K, L rese Masses (F12) podplain Soils (F19 c (TA6) (MLRA 144, Material (F21)	Lemarks Soils ³ : RA 149B) K, L, R) LRR K, L, R) (LRR K, L, R) (LRR K, L, R) (MLRA 149B) A, 145, 149B)
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	Absolute	Dom.	Indicator	I		
Tree Stratum (Plot size: 30' RAD)	% Cover	Sp?	Status	Dominance Test Worksheet:		
1. Pinus strobus	3	<u> </u>	FACU	# Dominants OBL, FACW, FAC:	3	(A)
			-FACO	# Dominants OBL, FACW, FAC.		— ^(A)
2.					-	(0)
3				# Dominants across all strata:	7	— ^(B)
4						
5				% Dominants OBL, FACW, FAC:	43%	(A/B)
6						
7.				Prevalence Index Worksheet:		
	3	= Total	Cover	Total % Cover of:	Multiply By	:
Sapling Stratum (Plot size: 15' RAD)			*********	OBL x 1 =		_
1. Acer rubrum	15	v	EAC		6	_
	15	<u>X</u>	FAC			_
2. <u>Pinus</u> strobus	3		FACU	FAC x 3 =	54	_
3				FACU117 x 4 =	468	_
4				UPL 3 x 5 =	15	
F				Sum: 141 (A)	543	(B)
						- '-'
				Durantan and Indian D/A	2.05	
7				Prevalence Index = B/A =	3.85	_
	18	= Total	Cover	Hydrophytic Vegetation Indicator	rs:	
Shrub Stratum (Plot size: 15' RAD)				Dominance Test is > 50%		
1. Spiraea alba	3	Х	FACW	Prevalence Index is <= 3.0		
2. Cornus racemosa		$\frac{x}{x}$	FAC	Problematic Hydrophytic		
			FAC			xpiain)
3				Rapid Test for <u>Hydrophyti</u>	<u>c</u> Vegetation	
4				Morphological Adaptation	ıs	
5				¹ Indicators of <u>hydric</u> soil and wetland hyd	rology must he n	resent
6.				unless disturbed or problematic.	rology mast be p	reserre,
7.				Definitions of Vegetation Strata:		
··	6	= Total	Carran	Delinitions of Vegetation Strate.		
· FIDAD		= 101ai	Cover	l_		
Herb Stratum (Plot size: 5' RAD)				Tree - Woody plants, excluding woody v		
1. Anthoxanthum odoratum	35	X	FACU	(6m) or more in height and 3in (7.6cm) or	larger in diamet	er at
2. Poa pratensis	35	X	FACU	breast height (DBH).		
3. Galium mollugo	35		FACU			
4. Asclepias syriaca	3		UPL	Sapling - Woody plants, excluding wood	dy vines annrovi	mately
	3			20ft (6m) or more in height and less than		
5. Potentilla simplex			FACU	Zort (only or more in neight and ie	JIII (7.00, 52	•
6. <u>Fragaria</u> virginiana	3		FACU			
7.		_				
8.				Shrub - Woody plants, excluding woody	vines, approxim	ately 3 to
9.				20ft (1 to 6m) in height.		
-						
10				l		
11.				Herb - All herbaceous (non-woody) plan		
12				vines, regardless of size. Includes woody		ody
	114	= Total	Cover	vines, less than approximately 3ft (1m) in	neignt.	
Woody Vines (Plot size:						
1.						
2				Woody vine - All woody vines, regardl	ess of height.	
3						
4.				Hydrophytic		
5.				Vegetation		
-		= Total	Cover	Present?	NO	
		- 10tai	covei	Fresent:		_
Remarks: (If observed, list morphological adaptations below).						

2022-GE-304-Wet

Drainet Sita	K42			City/County	Georgia	/Franklin		Samp. Date: 5/2	18/2022
Project Site: Applicant/Owner:	Velco			_City/County: _	State:	Vermont	Sampling Point:	2022-GE	-304-Wet
Investigator(s):	LK			Section		nip, Range:	 Georgia		
Landform (hillslope, to	errace, etc.):	Terrace		Local relief	(concave,	convex, none):	Concave	Slope (%):	0-6
Subregion (LRR or	MLRA):	LRR R	<u>Lat</u> :	44.726411		Long:	-73.149368	Datum:	NAD 83
Soil Map Unit:		Loamy fine sand						NWI Class:	PEM
			typical for this time of ye	:ar?	Yes	(If no, e	kplain in Remarks.)	_	
Are Vegetation, Soil							_	cumstances?	Yes
Are Vegetation, Soil	l, or Hydrolo	ogy naturally pro	oblematic? <u>No</u>				_ (If needed, e	xplain any answe	rs in Remarks.)
SLIMMARY OF	EINDING	S - Attach sit	e map showing sar	mnle noint l	location	nc tranca	ets important for	atures etc	
Hydrophytic Vegeta			YES	iipie poiiit i	T	is, transet	is, important lea	itures, etc.	
Hydric Soil Present?		-	YES			Is This	Sample Area Within	a Wetland?	YES
Wetland Hydrology		-	YES			15 11115	sample / irea within		
Remarks:									
HYDROLOGY									
Wetland Hydrology	Indicators:						Secondary Indicator	s (minimum of ty	vo required)
		of one is require	d; check all that apply)				Surface Soil Cr		vo required,
Surface Water	-	•	Water-Stained Leave	es (B9)		-	Drainage Patte		
High Water Ta	able (A2)	-	Aquatic Fauna (B13)				Moss Trim Line		
X Saturation (A3		-	Marl Deposits (B13)				Dry-Season W	ater Table (C2)	
Water Marks ((B1)	_	Hydrogen Sulfide Oc	dor (C1)			Crayfish Burro	ws (C8)	
Sediment Dep	osits (B2)	_	X Oxidized Rhizospher	es on Living Roo	ts (C3)		Saturation Visi	ble on Aerial (C9)	
Drift Deposits	(B3)	_	Presence of Reduce	d Iron (C4)			Stunted or Stre	essed Plants (D1)	
Algal Mat or C	rust (B4)		Recent Iron Reduction		(C6)		Geomorphic P		
Iron Deposits (-	Thin Muck Surface (Shallow Aquita		
Inundation Vis		· · · -	Other (Explain in Re	marks)			Microtopograp		
Sparsely Veget		e Surface (B8)					FAC-Neutral Te	est (D5)	
Field Observations:			D = th- /: = h = -)						
Surface Water Prese			Depth (inches):			Wetlens	L Lludralami Drasanta		VEC
Water Table Presen Saturation Present?			Depth (inches): Depth (inches):			wettand	l Hydrology Present?		YES
		m gauge monit	oring well, aerial photos,		actions)	if available:			
0.39" of Rain in th	ne 5 days p	rior; PDSI 0.85	5" for the week ending	g in 5/20/22 n	near nor	mal (NOAA)			
Remarks:									
Remarks.									
SOIL									
	(Describe to	o the depth nee	ded to document the inc	dicator or conf	firm the a	bsence of in	dicators.)		
Depth	Matrix			dox Features			,		
	(moist)	<u></u> %	Color (moist)	%	Type ¹	Loc ²	Texture	Rer	narks
	/ 5/2	96	10YR 3/4	- 4	<u> </u>	pl	SILT LOAM		
8-16 5y	5/2	95	10yr 3/4	5	С	m	SILT LOAM		
		. ——— -							
¹ Type: C=Concentration,	D=Depletion,	 RM=Reduced Matri:	x, MS=Masked Sand Grains.				² Location: PL=Pore Lining	, M=Matrix.	
Hydric Soil Indicator			·				Indicators for Proble		lc ³ .
Invalle 3011 Indicator	13.								
Histosol (A1)				elow Surface (S8)) (LRR R <i>,</i>			lo) (LRR K, L, MLRA	
Histic Epipedo			MLRA 149	· · ·				edox (A16) (LRR K,	
Black <u>Histic</u> (A				urface (S9) (LRR F		49B)		eat or Peat (S3) (LR	R K, L, R)
Hydrogen Sulf				ky Mineral (F1) (l	LRR K, L)			S9) (LRR K, L, M)	
Stratified Laye	. ,	(111)		ed Matrix (F2)				w Surface (S8) (LRF	(K, L)
Depleted Belo		ce (A11)	X Depleted Ma					ace (S9) (LRR K, L)	ND I/ I D)
Thick Dark Sur Sandy Mucky I			Redox Dark :	ark Surface (F7)				se Masses (F12) (LF dplain Soils (F19) (F	
Sandy Gleyed			Redox Depre					TA6) (MLRA 144A, :	
Sandy Redox (:3310113 (1 8)			Red Parent Ma		143, 1430)
Stripped Matri			3 _{1r}	ndicators of hydr	onhytic ve	getation and		Dark Surface (TF12)	
Dark Surface (ILRA 149B)		land hydrology n		-	Other (Explain		
	,,,		wet			problematic.		· · · · · · · · · · · · · · · · · · ·	
Restrictive Layer (if	observed):								
Type:							Hydric	Soil Present?	YES
Depth (inches):									
Remarks:									



			Absolute	Dom.	Indicator			
Tree Stra	itum (Plot size:	30' RAD)	% Cover	Sp?	Status	Dominance Test Worksheet:		
1						# Dominants OBL, FACW, FAC:	3	(A)
2								
3						# Dominants across all strata:	3	(B)
4								
5						% Dominants OBL, FACW, FAC:	100%	(A/B)
6								
7						Prevalence Index Worksheet:		
				. = Tota	Cover	Total % Cover of:	Multiply By	<u>':</u>
Sapling S	tratum (Plot size:	15' RAD)				OBL x 1 =		_
1						FACW 113 x 2 =	226	_
2						FAC x 3 =	9	_
3						<u>FACUx 4 =</u>		_
4						<u>UPL</u> <u>x</u> 5 =		_
5						Sum:116(A)	235	(B)
6								
7						Prevalence Index = B/A =	2.03	_
				= Tota	Cover	Hydrophytic Vegetation Indicato	rs:	
Shrub Str	•	15' RAD)				X Dominance Test is > 50%		
	iraea tomentosa			. <u> </u>	FACW	X Prevalence Index is <= 3.0		
2						Problematic Hydrophytic	Vegetation (explain)
3						Rapid Test for <u>Hydrophyt</u> i	<u>c</u> Vegetation	
4						Morphological Adaptation	าร	
5						¹ Indicators of <u>hydric</u> soil and wetland hyd	Irology must be p	resent,
6						unless disturbed or problematic.		
7						Definitions of Vegetation Strata:		
			15	= Tota	l Cover			
Herb Stra	atum (Plot size:	5' RAD)				Tree - Woody plants, excluding woody v		
1. <u>Ph</u>	<u>ialaris</u> arundinacea		63	X	FACW	(6m) or more in height and 3in (7.6cm) o breast height (DBH).	r larger in diamet	er at
2. O r	noclea sensibilis		32	Х	FACW	breast neight (DBH).		
3. Eg	uisetum arvense		3		FAC			
4. Po	a palustris		3		FACW	Sapling - Woody plants, excluding woo	dy vines, approxi	mately
5.						20ft (6m) or more in height and less than	3in (7.6cm) DBH	١.
6.								
7.								
8.						Shrub - Woody plants, excluding wood	y vines, approxim	ately 3 to
9.						20ft (1 to 6m) in height.		
10.								
11.						Herb - All herbaceous (non-woody) plai	nts, including her	baceous
12.						vines, regardless of size. Includes woody		oody
			101	= Total	Cover	vines, less than approximately 3ft (1m) ir	ı height.	
Woody V	ines (Plot size:	15' RAD)		•				
1.								
2.						Woody vine - All woody vines, regard	less of height.	
3.								
4.						Hydrophytic		
5.						Vegetation		
				= Total	Cover	Present?	YES	
				•				_
	If observed, list morphol	ogical adaptations below	v).	= Total	Cover	Vegetation Present?	YES	_

2022-GE-308-Up

Project Site:	K42			City/County:	Georgia	/Franklin		Samp. Date: 5/3	18/2022
Applicant/Owner:	Velco				State:	Vermont	Sampling Point:		E-308-Up
Investigator(s):	LK			Section	ı, Townsl	hip, Range:			
Landform (hillslope, to	errace, etc.):	Hillslope		Local relief	(concave,	convex, none):	Convex	Slope (%):	0-6
Subregion (LRR or	MLRA):	LRR R	<u>Lat</u>	44.740553		Long:	-73.144483	Datum:	NAD 83
Soil Map Unit:		extremely ston						NWI Class:	Upland
			typical for this time of ye	ear?	Yes	(If no, e	xplain in Remarks.)		
Are Vegetation, Soil			70000				_	rcumstances?	Yes
Are Vegetation, Soil	l, or Hydro	logy naturally pr	oblematic? <u>No</u>				(If needed, e	xplain any answe	ers in Remarks.)
STINANA A DV OE	EINDING	S Attach cit	te map showing sar	nnla naint l	location	ac tranco	etc important for	aturos oto	
Hydrophytic Vegeta			NO	iipie poiiit i	T	is, transe	cts, important rea	atures, etc.	
Hydric Soil Present?			NO NO			Ic Thic	Sample Area Within	a Wetland?	NO
Wetland Hydrology			NO NO			15 11115	Sample Area Within	a Welland:	
Remarks:	Presentr		NU						
HYDROLOGY									
Wetland Hydrology							Secondary Indicator		wo required)
		of one is require	d; check all that apply)			-	Surface Soil Cr		
Surface Water			Water-Stained Leav	` '			Drainage Patte		
High Water Ta			Aquatic Fauna (B13)				Moss Trim Line		
Saturation (A3	•		Marl Deposits (B13)					ater Table (C2)	
Water Marks (•	Hydrogen Sulfide O		to (C2)		Crayfish Burro		
Sediment Dep Drift Deposits			Oxidized Rhizospher Presence of Reduce		its (C3)			ible on Aerial (C9) essed Plants (D1)	
Algal Mat or C			Recent Iron Reducti		(C6)		Geomorphic P		
Iron Deposits (•	Thin Muck Surface ((00)		Shallow Aguita		
Inundation Vis		al (B7)	Other (Explain in Re					ohic Relief (D4)	
		ve Surface (B8)		,			FAC-Neutral T		
Field Observations:						1			
Surface Water Prese	ent?		Depth (inches)	:					
Water Table Presen	it?		Depth (inches)	:		Wetland	d Hydrology Present?		NO
Saturation Present?)		Depth (inches)						
Remarks:									
SOIL									
	(Describe 1	to the depth nee	eded to document the in		firm the a	bsence of in	dicators.)		
Depth	Matrix		Re	dox Features					
(in) Color ((moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Rer	marks
	· 3/2 · 5/4	- 100 -	10YR 3/2	10			SILT LOAM SILT LOAM		
10-16 1091	3/4		101K 3/2		<u> </u>		JILI LUAIVI		
		. :							
¹ Type: C=Concentration,	D=Depletion,	. RM=Reduced Matri	x, MS=Masked Sand Grains.				² Location: PL=Pore Lining	g, M=Matrix.	
Hydric Soil Indicator	rs:						Indicators for Proble	ematic <u>Hydric</u> Soi	ils³:
Histosol (A1)			Polyvalue Be	elow Surface (S8)) (LRR R.		2 cm Muck (A:	10) (LRR K, L, MLRA	149B)
Histic Epipedo	n (A2)		MLRA 149		, (=			Redox (A16) (LRR K,	
Black Histic (A	3)		Thin Dark Su	ırface (S9) (LRR F	R, MLRA 14	49B)	5 cm Mucky Po	eat or Peat (S3) (LR	R K, L, R)
Hydrogen Sulf	ide (A4)		Loamy Muc	ky Mineral (F1) (I	LRR K, L)		Dark Surface (S9) (LRR K, L, M)	
Stratified Laye	ers (A5)		Loamy Gley	ed Matrix (F2)			Polyvalue Belo	ow Surface (S8) (LRF	R K, L)
Depleted Belo	w Dark Surf	ace (A11)	Depleted M	atrix (F3)			Thin Dark Surf	ace (S9) (LRR K, L)	
Thick Dark Sur	face (A12)		Redox Dark	Surface (F6)			Iron-Mangane	se Masses (F12) (LF	RR K, L, R)
Sandy Mucky I	Mineral (S1)		Depleted Da	rk Surface (F7)			Piedmont Floo	odplain Soils (F19) (I	MLRA 149B)
Sandy Gleyed			Redox Depr	essions (F8)				TA6) (MLRA 144A,	145, 149B)
Sandy Redox (Red Parent Ma		
Stripped Matr				ndicators of <u>hydr</u>		-		Dark Surface (TF12)	
Dark Surface (S7) (LRR R, N	√ILRA 149B)	wet	land hydrology n			Other (Explain	in Remarks)	
Restrictive Layer (if	observed).			dis	sturbed or	problematic.	1		
Restrictive Layer (if Type:	onserved):						Hydric	Soil Present?	NO
Depth (inches):							I III		110
Remarks:							Į		

				Absolute	Dom.	Indicator	I		
Tree S	Stratum (Plot size:	30' RAD)	% Cover	Sp?	Status	Dominance Test Worksheet:		
1.	•	1	.′				# Dominants OBL, FACW, FAC:		(A)
							# Dominiants Obt, FACW, FAC.		— ^(^)
2.									
3.							# Dominants across all strata:	1	<u> —</u> (В)
4.									
5.							% Dominants OBL, FACW, FAC:		(A/B)
6.									_``
							2 1 1 1 1 1 1		
7.							Prevalence Index Worksheet:		
					= Tota	Cover	Total % Cover of:	Multiply By	<u>/:</u>
Saplir	g Stratum (Plot size:	15' RAD)				OBL x 1 =		
1.			• *				FACW 3 x 2 =	6	_
				-				45	_
2.							FAC x 3 =		_
3.							FACU 78 x 4 =	312	_
4.							<u>UPL x 5 = </u>		
5.							Sum: 96 (A)	363	— (B)
6.							(· ·/		
							l		
7.							Prevalence Index = B/A =	3.78	
					= Tota	Cover	Hydrophytic Vegetation Indicate	ors:	
Shrub	Stratum (Plot size:	15' RAD)				Dominance Test is > 50%		
	•		.′						
1.							Prevalence Index is <= 3.0		
2.							Problematic Hydrophytic	Vegetation*	explain)
3.							Rapid Test for Hydrophyt	ic Vegetation	
4.							Morphological Adaptatio	ns	
							Worphological / daptatio	113	
5.							¹ Indicators of <u>hydric</u> soil and wetland hyd	drology must be p	oresent,
6.							unless disturbed or problematic.		
7.							Definitions of Vegetation Strata:		
					= Tota	Cover			
Horb	Stratum (Plot size:	5' RAD)				Tree - Woody plants, excluding woody	vinos annrovima	taly 20ft
	•		.'				(6m) or more in height and 3in (7.6cm) of		
	Solidago canadensis			63	<u> </u>	FACU	breast height (DBH).	i larger ili diame	ter at
2.	Rubus idaeus			15		FACU	Stease Height (BBH).		
3.	Carex brevior			15		FAC			
4.	Poa palustris			3		FACW	Sapling - Woody plants, excluding woo	adv vinos approv	imatoly
	roa paiustris						20ft (6m) or more in height and less than		
5.							Zort (bill) or more in height and less than	1311 (7.6011) DBF	1.
6.									
7.									
8.							Shrub - Woody plants, excluding wood	ly vines annrovin	nately 3 to
							20ft (1 to 6m) in height.	, vines, approxim	ideciy 5 to
9.							Lore (1 to only in neight.		
10.									
11.							Herb - All herbaceous (non-woody) pla	nts, including her	baceous
12.							vines, regardless of size. Includes woody	plants, except w	oody
				96	= Tota	Caucan	vines, less than approximately 3ft (1m) is	n height.	
					- 10ta	Cover			
Wood	ly Vines (Plot size:	15' RAD	.)						
1.									
2.							Woody vine - All woody vines, regard	dless of height.	
3.							, , , , , , , , , , , , , , , , , , , ,	0	
4.							Hydrophytic		
5.							Vegetation		
					= Tota	Cover	Present?	NO	
	//C		1.1.				l .		
Remark	s: (If observed, list morp	hological adaptation	s below).						

2022-GE-308-Wet

Project Site:	K42			,	City/County:	Georgia	/Franklin		Samp. Date: 5/1	18/2022
Applicant/Owner:	Velco			—		State:	Vermont	Sampling Point:	Sallip. Date.	-308-Wet
Investigator(s):	LK				Section,		nip, Range:			
Landform (hillslope, te	errace, etc.):	Terrace			Local relief ((concave, c	onvex, none):	Concave	Slope (%):	0-6
Subregion (LRR or		LRR R		Lat:	44.740509		Long:	-73.144381	Datum:	NAD 83
Soil Map Unit:		extremely ston					416		NWI Class:	PEM
			typical for this time o		<u>r?</u>	Yes	. (It no, ex	xplain in Remarks.)		V
Are Vegetation, Soil	-		·	<u>No</u>				_	cumstances?	Yes
Are Vegetation, Soil	, or myuror	ogy naturany p	robiematic: <u>r</u>	No				_ (II fleeded, ex	xplain any answe	rs in Kemarks.)
SUMMARY OF I	FINDING	S - Attach si	ite map showing	sam	ple point l	ocation	ns. transec	cts, important fea	itures, etc.	
Hydrophytic Vegeta			YES		1		,	,p 0		
Hydric Soil Present?			YES				Is This S	Sample Area Within	a Wetland?	YES
Wetland Hydrology	Present?		YES					•	-	
Remarks:										
HYDROLOGY										
Wetland Hydrology	Indicators							Secondary Indicator	s (minimum of tv	vo required)
Primary Indicators (minimum d	of one is require	ed; check all that app	ly)				Surface Soil Cra	acks (B6)	
Surface Water	(A1)		X Water-Stained	Leaves	(B9)			Drainage Patte	rns (B10)	
X High Water Ta	ble (A2)		Aquatic Fauna ((B13)				Moss Trim Line	s (B16)	
Saturation (A3	.)		Marl Deposits (B13)				Dry-Season Wa	ater Table (C2)	
Water Marks (B1)		Hydrogen Sulfic	de Odo	r (C1)			Crayfish Burro		
Sediment Dep			X Oxidized Rhizos		-	s (C3)			ble on Aerial (C9)	
Drift Deposits			Presence of Rec						essed Plants (D1)	
Algal Mat or C			Recent Iron Rec			C6)		Geomorphic Po		
Iron Deposits (Inundation Vis		al (D7)	Thin Muck Surfa	•	•			Shallow Aquita		
Sparsely Veget			Other (Explain i	n kem	arks)			Microtopograp FAC-Neutral Te		
	.atea conca							TAC Neutral Te		
Field Observations:	+7		Donath /in al	h = =\.						
Surface Water Prese			Depth (inch				\4/a#lama	l I livelina la mir Duna a ma 2		VEC
Water Table Presen Saturation Present?			Depth (inch <u>Depth</u> (inch				wetiand	d Hydrology Present?		YES
		m galige moni	toring well, aerial pho		revious inspe	ctions) i	lif available:			
	•		35" for the week en		•			1		
0.00	ic 5 days i	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	io the week en	ug .	5, 25, 22	cu:	1101 (110701)			
Remarks:										
THE THE THE										
SOIL										
	(Describe t	o the depth ne	eded to document th	ie indi	cator or confi	rm the a	bsence of in	dicators.)		
Depth	Matrix	•			ox Features					
(in) Color (moist)	%	Color (moist)		%	Type ¹	Loc ²	Texture	Rer	marks
0-30			, , ,	_				MUCK		
		- ——		—						
¹ Type: C=Concentration,	D=Depletion,	RM=Reduced Matr	rix, MS=Masked Sand Grain	ns.				² Location: PL=Pore Lining	, M=Matrix.	
Hydric Soil Indicator								Indicators for Proble		le ³ .
	э.									
X Histosol (A1)					ow Surface (S8)	(LRR R,			.0) (LRR K, L, MLRA	
Histic Epipedo				4 149B)					edox (A16) (LRR K,	
Black Histic (A	-				face (S9) (LRR R,		19B)		eat or Peat (S3) (LRI	R K, L, R)
Hydrogen Sulfi					Mineral (F1) (LI	RR K, L)			59) (LRR K, L, M)	N K 1 N
Stratified Laye Depleted Belo		200 (411)			Matrix (F2)				w Surface (S8) (LRF	(K, L)
Thick Dark Sur		ice (AII)	Deplete		rix (F3) urface (F6)				ace (S9) (LRR K, L) se Masses (F12) (LF	D V I D)
Sandy Mucky i					Surface (F6)				dplain Soils (F19) (N	
Sandy Gleyed					sions (F8)				TA6) (MLRA 144A, :	•
Sandy Redox (zepi es.	310113 (1 0)			Red Parent Ma		143, 1430)
Stripped Matri				3Ind	icators of hydro	nhytic ve	getation and		Dark Surface (TF12)	
Dark Surface (ЛLRA 149B)			nd hydrology m		_	Other (Explain		
							problematic.		·	
Restrictive Layer (if	observed):									
Type:								Hydric	Soil Present?	YES
Depth (inches):										
Remarks:										



	•1 1 .					
T 6: 1 (0) 1 (0) 20 PAP	Absolute	Dom.	Indicator	l		
Tree Stratum (Plot size: 30' RAD)	% Cover	Sp?	Status	Dominance Test Worksheet:	_	
1. <u>Salix</u> nigra	35	<u>X</u>	OBL	# Dominants OBL, FACW, FAC:	3	— ^(A)
2						
3				# Dominants across all strata:	3	(B)
4						
5				% Dominants OBL, FACW, FAC:	100%	(A/B)
6						
7.				Prevalence Index Worksheet:	,	
	35	= Total	Cover	Total % Cover of:	Multiply By	′ :
Sapling Stratum (Plot size: 15' RAD)		•		OBL 35 x 1 =	35	_
				FACW 81 x 2 =	162	_
<u> </u>				FAC x 3 =		_
				FACU x 4 =	-	_
4					-	_
-					107	— _(B)
5				Sum:116 (A)	197	— ^(B)
6	_			1		
7				Prevalence Index = B/A =	1.70	_
		= Total	Cover	Hydrophytic Vegetation Indicato	rs:	
Shrub Stratum (Plot size: 15' RAD)				X Dominance Test is > 50%		
1. Cornus sericea	3	X	FACW	X Prevalence Index is <= 3.0	1	
2.				Problematic Hydrophytic	Vegetation ¹ (e	explain)
3.				Rapid Test for Hydrophyti	c Vegetation	
4.				Morphological Adaptation	ns	
5.				I —		
				¹ Indicators of <u>hydric</u> soil and wetland hyd unless disturbed or problematic.	Irology must be p	resent,
7.				Definitions of Vegetation Strata:		
7.			Carran	Deminitions of Vegetation Strata.		
TIDAD		= Total	Cover			
Herb Stratum (Plot size: 5' RAD)				Tree - Woody plants, excluding woody v (6m) or more in height and 3in (7.6cm) or		
1. Phalaris arundinacea	63	X	FACW	breast height (DBH).	larger in diamet	terat
2. Impatiens capensis	15		FACW			
3						
4				Sapling - Woody plants, excluding woo		
5.				20ft (6m) or more in height and less than	3in (7.6cm) DBH	l.
6.						
7.						
8.				Shrub - Woody plants, excluding woody	v vines, approxim	nately 3 to
9.				20ft (1 to 6m) in height.		
10						
				Herb - All herbaceous (non-woody) plan	nts including hor	hacoous
	_			vines, regardless of size. Includes woody		
12.				vines, less than approximately 3ft (1m) in		,
	78	= Total	Cover			
Woody Vines (Plot size: 15' RAD)						
1						
2				Woody vine - All woody vines, regard	less of height.	
3.						
4.				Hydrophytic		
5.				Vegetation		
		= Total	Cover	Present?	YES	
			~~~~			_
Remarks: (If observed, list morphological adaptations below).				1		
kemarks: (II observed, list morphological adaptations below).						

2022-GE-313-Up

Project Site:	K42			City	y/County:	Georgia	/Franklin		Samp. Date: 5/1	17/2022
Applicant/Own	er: Velco				,, county	State:	Vermont	Sampling Point:		E-313-Up
Investigator(s):	LK				Section,	, Townsl	hip, Range:			·
Landform (hillslo		.): Hillslope		_	ocal relief	(concave, o	convex, none):	Convex	Slope (%):	0-3
Subregion (LRF	t or MLRA):	LRR R	Lat	: <u>44</u>	4.759309		Long:	-73.137170	Datum:	NAD 83
Soil Map Unit:		silt loam							NWI Class:	Upland
			te typical for this time of ye	ear?		Yes	(If no, e	xplain in Remarks.)		
_		rology significan						_	cumstances?	Yes
Are Vegetation	, Soil, or Hyd	rology naturally	problematic? No					(If needed, e	xplain any answe	rs in Remarks.)
CLINANAADV	OF FINIDIA	ICC 144	-:				4	:		
			site map showing sai	mple	e point i	ocation	is, transe	cts, important fea	itures, etc.	
Hydrophytic Ve	-	sent?	NO					C   A   14/2-1-1	W .I .I2	NO
Hydric Soil Pres		_	YES		ļ		Is This	Sample Area Within	a Wetland?	NO
Wetland Hydro	logy Present	?	NO							
Remarks:										
HYDROLOG										
Wetland Hydro								Secondary Indicator		vo required)
· · · · · · · · · · · · · · · · · · ·		n of one is requ	ired; check all that apply)				_	Surface Soil Cr		
	Vater (A1)		Water-Stained Leav		9)			Drainage Patte		
	er Table (A2)		Aquatic Fauna (B13					Moss Trim Line		
Saturatio			Marl Deposits (B13)		C1)			Dry-Season Wa		
Water Ma	: Deposits (B2)		Hydrogen Sulfide O Oxidized Rhizosphe			+c (C2)		Crayfish Burro	ible on Aerial (C9)	
Drift Dep			Presence of Reduce		-	13 (C3)			essed Plants (D1)	
	or Crust (B4)		Recent Iron Reducti		. ,	(C6)		Geomorphic P	` '	
Iron Depo			Thin Muck Surface (			7		Shallow Aguita		
	n Visible on A	erial (B7)	Other (Explain in Re	emark	(s)			Microtopogran		
Sparsely \	√egetated Cor	cave Surface (B8)						FAC-Neutral Te	est (D5)	
Field Observati	ons:									
Surface Water I			Depth (inches)	):						
Water Table Pr		-	Depth (inches)	_			Wetland	d Hydrology Present?		NO
Saturation Pres	ent?		Depth (inches)	):				·		
Remarks:			.85" for the week endin _i							
SOIL										
Profile Descript	ion: (Describ	e to the depth n	needed to document the in	idicat	or or confi	irm the a	bsence of in	dicators.)		
Depth	Matr	ix	<u></u>	<u>edox</u>	Features					
(in) Co	olor (moist)	%	Color (moist)		%	Type ¹	Loc ²	Texture	Ren	narks
	10yr 3/2	100						SILT LOAM		
	10yr 5/3	100	40					FINE SANDY LOAM		
8-16	10YR 5/1	95	10yr 5/4		5		m	FINE SANDY LOAM		
			-							
			-							
¹Type: C=Concentra	ation, D=Depleti	on, RM=Reduced Ma	atrix, MS=Masked Sand Grains.					² Location: PL=Pore Lining	, M=Matrix.	
Hydric Soil Indi	cators:							Indicators for Proble	amatic Hydric Soi	1c ³ .
									***************************************	
Histosol (					Surface (S8)	(LRR R,			10) (LRR K, L, MLRA	
	pedon (A2)		MLRA 149		(CO) (LDD D	TALDA 1.	:20)		ledox (A16) (LRR K, I	
Black Hist					e (S9) (LRR R inoral (E1) (L		19B)		eat or Peat (S3) (LRF	R K, L, K)
	Sulfide (A4) Layers (A5)		Loamy Muc Loamy Gley	-	ineral (F1) (L atrix (F2)	.KK N, L)			S9) (LRR K, L, M) w Surface (S8) (LRR	וועמ
	Below Dark Su	urfaco (A11)							ace (S9) (LRR K, L)	. N, L)
	k Surface (A12		<u>X</u> <u>Depleted</u> M <u>Redox</u> Dark						se Masses (F12) (LR	BKIB)
	ucky Mineral (S		Depleted Da						dplain Soils (F19) (N	
	eyed Matrix (S		Redox Depr						TA6) (MLRA 144A, 1	
Sandy Re		•						Red Parent Ma		,,
	Matrix (S6)		3 ,	ndicat	tors of hydro	ophytic ve	getation and		Dark Surface (TF12)	
Dark Surf	ace (S7) (LRR F	R, MLRA 149B)					esent, unless	Other (Explain	in Remarks)	
					dist	turbed or	problematic.			
Restrictive Laye	r (if observe	d):								
	уре:							Hydric	Soil Present?	YES
Depth (inch	ıes):									
Remarks:										

		Absolute	Dom.	Indicator			
•	<b>30' RAD</b> )	% Cover	Sp?	Status	Dominance Test Worksheet:		
1.					# Dominants OBL, FACW, FAC:		— ^(A)
2. 3.					# Daminanta assass all strata.	2	(D)
4					# Dominants across all strata:		— ^(B)
F					% Dominants OBL, FACW, FAC		(A/B)
					7,0 50,1111,111,115 052, 17,1011, 17,101		_(',',',',
_					Prevalence Index Worksheet:		
			= Tota	Cover	Total % Cover of:	Multiply By	<i>r</i> :
Sapling Stratum (Plot size:	<b>15' RAD</b> )				OBL x 1 =		_
1					FACW 3 x 2 =	6	_
2					FAC <b>3</b> x 3 =	9	_
3					FACU <b>85</b> x 4 =	340	_
4					<u>UPL</u> <u>x</u> 5 =		_
					Sum: <b>91</b> (A)	355	(B)
6							
7					Prevalence Index = B/A =	3.90	_
Should Stocking (Dict size)	15' RAD )		= Tota	Cover	Hydrophytic Vegetation Indica		
	<del></del> *				Dominance Test is > 509 Prevalence Index is <= 3		
					Problematic Hydrophyt		ovelaie)
					Rapid Test for Hydrophy	-	:xpiaiii)
					Morphological Adaptati	-	
					<del>-                                   </del>		
					¹ Indicators of <u>hydric</u> soil and wetland h unless disturbed or problematic.	ydrology must be p	resent,
7.					Definitions of Vegetation Strat	a:	
			= Total	Cover	ľ		
Herb Stratum (Plot size:	5' RAD )		•		Tree - Woody plants, excluding wood	y vines, approxima	ely 20ft
1. Rubus idaeus		35	Х	FACU	(6m) or more in height and 3in (7.6cm)	or larger in diame	er at
2. Solidago canadensis		35	x	FACU	breast height (DBH).		
3. Claytonia virginica		15		FACU			
4. Phalaris arundinacea				FACW	Sapling - Woody plants, excluding w	oody vines, approx	imately
5. Euthamia graminifolia				FAC	20ft (6m) or more in height and less th	an 3in (7.6cm) DBH	l.
6.							
7.							
8.					Shrub - Woody plants, excluding wo	ody vines, approxin	ately 3 to
9.					20ft (1 to 6m) in height.		
10							
11					Herb - All herbaceous (non-woody) p		
12					vines, regardless of size. Includes woo vines, less than approximately 3ft (1m		oody
		91	= Tota	Cover			
· · · · · · · · · · · · · · · · · · ·	15' RAD )						
1.							
2.					Woody vine - All woody vines, rega	rdless of height.	
3.							
5					_	NO	
			= Tota	Cover	Present?	NO	_
D							
4. 5. Remarks: (If observed, list morphologic	cal adaptations below).		= Tota	Cover	Hydrophytic Vegetation Present?	NO	_

2022-GE-313-Wet

Project Site:	K42			City/County	Georgia	/Franklin		Samp. Date: 5/3	17/2022
Applicant/Owner:	Velco			_City/County	State:	Vermont	Sampling Point:	2022-GE	-313-Wet
Investigator(s):	LK			Secti	on, Townsh	700000000000000000000000000000000000000			
Landform (hillslope, t		Terrace			ief (concave, c		Concave	Slope (%):	0-3
Subregion (LRR or	MLRA):	LRR R	Lat	 t: 44.759413	3	Long:	-73.137084	Datum:	NAD 83
Soil Map Unit:	Scantic si	It loam				-		NWI Class:	PEM
Are climatic/hydrol	ogic condit	ions on the site	typical for this time of y	ear?	Yes	(If no, ex	xplain in Remarks.)		
Are Vegetation, Soi	il, or Hydrol	ogy significantl	y disturbed? <u>No</u>			·	Normal Cir	cumstances?	Yes
Are Vegetation, Soi	il, or Hydrol	ogy naturally p	roblematic? No				(If needed, e	xplain any answe	rs in Remarks.)
							_		
SUMMARY OF	FINDING	S - Attach si	ite map showing sa	mple poin	t location	າs, transec	cts, important fea	atures, etc.	
Hydrophytic Vegeta	ation Preser	nt?	YES						
Hydric Soil Present			YES			Is This S	Sample Area Within	a Wetland?	YES
Wetland Hydrology	Present?		YES						
Remarks:									
HYDROLOGY									
Wetland Hydrology							Secondary Indicator		vo required)
		of one is require	ed; check all that apply)			_	Surface Soil Cr	acks (B6)	
Surface Wate			X Water-Stained Leav				Drainage Patte		
High Water Ta			Aquatic Fauna (B13	-			Moss Trim Line		
Saturation (A	•		Marl Deposits (B13)					ater Table (C2)	
Water Marks			Hydrogen Sulfide O				Crayfish Burro		
Sediment Dep			Oxidized Rhizosphe		oots (C3)			ble on Aerial (C9)	
Drift Deposits			Presence of Reduce		1. (66)			essed Plants (D1)	
Algal Mat or C			Recent Iron Reduct		IIS (Cb)		Geomorphic P		
Iron Deposits Inundation Vi		al (P7)	Thin Muck Surface Other (Explain in Re				Shallow Aquita		
		ve Surface (B8)	Other (Explain in Re	siliai KS)			FAC-Neutral To	ohic Relief (D4)	
		ve surface (50)						est (D3)	
Field Observations: Surface Water Pres			Donth (inches)	١.					
			Depth (inches)		_	14/			VEC
Water Table Preser Saturation Present			Depth (inches) Depth (inches)		_	wetiand	d Hydrology Present?		YES
Remarks: SOIL									
Profile Description:		o the depth ne	eded to document the in			bsence of inc	dicators.)		
Depth	Matrix			edox Feature	1				
	(moist)		Color (moist)	%	Type ⁺	<u>Loc</u> ²	Texture	Rer	narks
	R 4/1 R 5 /2	90	10yr 5/6				SILT LOAM		
	5/1	85	10YR 5/6	- <del>15</del>	— <del>c</del>		SILT LOAM		
¹ Type: C=Concentration,	, D=Depletion,	RM=Reduced Matr	rix, MS=Masked Sand Grains.				² Location: PL=Pore Lining	g, M=Matrix.	
Hydric Soil Indicato	rs:						Indicators for Proble	ematic <u>Hydric</u> Soi	ls ³ :
Histosol (A1)			Polyazduo B	Below Surface (	(co) (i pp p			LO) (LRR K, L, MLRA	
X Histic Epipedo	on (A2)		MLRA 14		30) (LNN N,			ledox (A16) (LRR K,	
Black Histic (A				Surface (S9) (LR	RR MIRA 12	19R)		eat or Peat (S3) (LR	
Hydrogen Sulf				cky Mineral (F1		.55,		S9) (LRR K, L, M)	, _,,
Stratified Laye				ed Matrix (F2)				w Surface (S8) (LRF	R K. L)
Depleted Belo		ace (A11)	X Depleted M					ace (S9) (LRR K, L)	, -,
Thick Dark Su		,		Surface (F6)				se Masses (F12) (LF	RR K. L. R)
Sandy Mucky				ark Surface (F7	7)		Piedmont Floo	dplain Soils (F19) (I	MLRA 149B)
Sandy Gleyed	Matrix (S4)		Redox Depr	ressions (F8)			Mesic Spodic (	TA6) (MLRA 144A,	145, 149B)
Sandy Redox	(S5)						Red Parent Ma	aterial (F21)	
Stripped Matr	rix (S6)		³ l	ndicators of hy	vdrophytic ve	getation and	Very Shallow [	Dark Surface (TF12)	
Dark Surface		∕ILRA 149B)		tland hydrolog		-	Other (Explain		
					disturbed or				
Restrictive Layer (if	observed):								
Type:	:						Hydric	Soil Present?	YES
Depth (inches):	:								
Remarks:									



	Absolute	Dom.	Indicator	T			
Tree Stratum (Plot size:30' RAD)	% Cover	Sp?	Status	Dominance Test Worksheet:			
1.				# Dominants OBL, FACW, FAC: <b>3</b> (A)			
2.							
3.				# Dominants across all strata: <b>3</b> (B)			
4.							
5.				% Dominants OBL, FACW, FAC: 100% (A/B			
6							
7				Prevalence Index Worksheet:			
		. = Total	Cover	Total % Cover of: Multiply By:			
Sapling Stratum (Plot size: 15' RAD )				OBL16			
1. Fraxinus pennsylvanica	3	X	FACW	FACW 73 x 2 = 146			
2				FAC x 3 =			
3				FACU 15 x 4 = 60			
4				UPL 3 x 5 = 15			
5				Sum:(A)(B)			
6.		-		2.21			
7				Prevalence Index = B/A = 2.21			
	2	<b>.</b>					
THE PARTY	3	= Total	Cover	Hydrophytic Vegetation Indicators:			
Shrub Stratum (Plot size: 15' RAD )				X Dominance Test is > 50%			
1.				X Prevalence Index is <= 3.0			
2.				Problematic Hydrophytic Vegetation (explain)			
3.				Rapid Test for Hydrophytic Vegetation  Marphological Adaptations			
4				Morphological Adaptations			
5.				¹ Indicators of <u>hydric</u> soil and wetland hydrology must be present,			
6.				unless disturbed or problematic.			
7		= Total	Carron	Definitions of Vegetation Strata:			
Herb Stratum (Plot size: 5' RAD )		= 10tai	Cover	Tree - Woody plants, excluding woody vines, approximately 20ft			
1. Onoclea sensibilis	35	х	FACW	(6m) or more in height and 3in (7.6cm) or larger in diameter at			
Dioctea sensionis     Phalaris arundinacea	35	· -x	FACW	breast height (DBH).			
Solidago canadensis	15		FACU				
Scirpus atrovirens	15		OBL	Sapling - Woody plants, excluding woody vines, approximately			
5. Fragaria vesca	3		UPL	20ft (6m) or more in height and less than 3in (7.6cm) DBH.			
6. Lysimachia thyrsiflora			OBL				
7							
8				Shrub - Woody plants, excluding woody vines, approximately 3 to			
<u> </u>				20ft (1 to 6m) in height.			
10.							
11				Herb - All herbaceous (non-woody) plants, including herbaceous			
12.				vines, regardless of size. Includes woody plants, except woody			
	104	= Total	Cover	vines, less than approximately 3ft (1m) in height.			
Woody Vines (Plot size: 15' RAD )							
1.							
2.				Woody vine - All woody vines, regardless of height.			
3.							
4.				Hydrophytic			
5.				Vegetation			
		= Total	Cover	Present? YES			
Remarks: (If observed, list morphological adaptations below).							

2022-GE-1Up

Project Site:	K42			City/C	ounty:	Georgia	/Franklin		Samp. Date: 5/1	7/2022		
Applicant/Owner:	Velco			_ = = = = = = = = = = = = = = = = = = =		State:	Vermont	Sampling Point:	2022-0			
Investigator(s):	LK				Section	, Townsł	nip, Range:	Georgia		·		
Landform (hillslope, te		Terrace		_		(concave, c	onvex, none):	Convex	Slope (%):	0-8		
Subregion (LRR or	,	LRR R		: <u>44.78</u>	80044		Long:	-73.130455	Datum:	NAD 83		
Soil Map Unit:		xtremely stony	loam typical for this time of y	0212		Yes	(If no. o	xplain in Remarks.)	NWI Class:	Upland		
Are Vegetation, Soil			11:1 12:	ear:		162	· (II IIO, e.	•	cumstances?	Yes		
Are Vegetation, Soil			·						xplain any answe			
,	, ,	0, ,,	<u></u>					_	,	,		
			te map showing sa	mple p	ooint l	ocation	ns, transed	cts, important fea	atures, etc.			
Hydrophytic Vegeta		it?	No No				to This is	C	- 144-4112	NO		
Hydric Soil Present?			YES NO				is inis:	Sample Area Within	a Wetland?	NO		
Wetland Hydrology Remarks:	Presents		NO									
nemarks.												
HYDROLOGY												
Wetland Hydrology	Indicators:							Secondary Indicator	rs (minimum of tv	vo required)		
Primary Indicators (	minimum o	of one is require	ed; check all that apply)					Surface Soil Cr	acks (B6)			
Surface Water			Water-Stained Lea					Drainage Patte				
High Water Ta			Aquatic Fauna (B13					Moss Trim Line				
Saturation (A3	-		Marl Deposits (B13						ater Table (C2)			
Water Marks ( Sediment Dep			——— Hydrogen Sulfide C Oxidized Rhizosphe		ving Poot	tc (C3)		Crayfish Burro	· ·			
Drift Deposits			Presence of Reduce		-	13 (C3)	Saturation Visible on Aerial (C9) Stunted or Stressed Plants (D1)					
Algal Mat or C			Recent Iron Reduct		•	(C6)	Geomorphic Position (D2)					
Iron Deposits (	(B5)		Thin Muck Surface	(C7)				Shallow Aquita				
Inundation Vis	sible on Aeria	ıl (B7)	Other (Explain in Re	emarks)				Microtopogra	ohic Relief (D4)			
Sparsely Veget	tated Conca	re Surface (B8)						FAC-Neutral T	est (D5)			
Field Observations:												
Surface Water Prese			Depth (inches									
Water Table Presen Saturation Present?			Depth (inches Depth (inches				Wetland	d Hydrology Present?		NO		
		m gaugo moni	toring well, aerial photos		us inspe	octions)	if available:					
			5" for the week endin									
Remarks:												
SOIL	/Doseribo +	a tha danth na	adad ta dasumant tha ir	diestor	ar canfi	irm tha a	beense of in	disators \				
Depth	Matrix	o the depth he	eded to document the ir	edox Fe		irm the a	bsence or m	uicators.)				
(in) Color (		%	Color (moist)		%	Type ¹	Loc ²	Texture	Pon	narks		
0-6 10YR		100	Color (moist)		/0	Туре	100	SANDY LOAM	nen	Tarks		
	₹ 3/2	98	10yr 3/6		2	<del>c</del>	M	FINE SANDY LOAM				
		- ——										
¹ Type: C=Concentration,	D=Depletion,	RM=Reduced Matr	ix, MS=Masked Sand Grains.					² Location: PL=Pore Lining	, M=Matrix.			
Hydric Soil Indicator	rs:							Indicators for Proble	ematic <u>Hydric</u> Soil	s ³ :		
Histosol (A1)			Polyvalue B	elow Sur	face (SR)	\(IRR R		2 cm Muck (A	LO) (LRR K, L, MLRA	149R)		
Histosol (A1) Histic Epipedon (A2)  MLRA 149B)						, (בונוניוני,	Coast Prairie Redox (A16) (LRR K, L, R)					
Black <u>Histic</u> (A3)  Thin Dark Surface (S9) (LRR R, MLRA 1						R, MLRA 14	19B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)					
Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1) (LRR K, L)							Dark Surface (	S9) (LRR K, L, M)				
Stratified Layers (A5) Loamy Gleyed Matrix (F2)							Polyvalue Belo	w Surface (S8) (LRR	K, L)			
Depleted Belo	w Dark Surfa	ice (A11)	Depleted M	1atrix (F3	)			Thin Dark Surf	ace (S9) (LRR K, L)			
Thick Dark Surface (A12) X Redox Dark Surface (F6)						Iron-Manganese Masses (F12) (LRR K, L, R)						
Sandy Mucky Mineral (S1)  Depleted Dark Surface (F7)  Sandy Slaved Marris (S1)							Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)					
Sandy Gleved Matrix (S4) Redox Depressions (F8)										145, 149B)		
Sandy Redox (SS) Stripped Matrix (SS)  3 Indicators of hydrophytics as							Red Parent Material (F21)  Very Shallow Dark Surface (TF12)					
Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Stripped Matrix (S6)  wetland hydrology must be pr							-					
Dark Surface (	31) (LKK K, N	ILINA 143B)	we	uand nyo			problematic.	Other (Explain	iii Neiliai KS)			
Restrictive Layer (if	observed):				uisi	-3.500 01	p. ooicillatic.					
, ,	Bedrock							Hydric	Soil Present?	YES		
Depth (inches):	14"											
Remarks:						_						

	Absolute	Dom.	Indicator	T
Tree Stratum (Plot size:30' RAD)	% Cover	Sp?	Status	Dominance Test Worksheet:
1				# Dominants OBL, FACW, FAC:1 (A)
2				
3				# Dominants across all strata: (B)
4				
5				% Dominants OBL, FACW, FAC:33% (A/B)
6.				Providence Index Wednesday
7			Cover	Prevalence Index Worksheet:
Sapling Stratum (Plot size: 15' RAD )		= Tota	Cover	Total % Cover of:  OBL x 1 =
				OBL x 1 =
				FAC 21 x3= 63
3.				FACU 99 x 4 = 396
4.				<u>UPL</u> <u>x</u> 5 =
5.				Sum: <b>187</b> (A) <b>593</b> (B)
6.				
7.				Prevalence Index = B/A = <b>3.17</b>
		= Tota	l <u>Cover</u>	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15' RAD )				Dominance Test is > 50%
1				Prevalence Index is <= 3.0
2				Problematic Hydrophytic Vegetation (explain)
3				Rapid Test for Hydrophytic Vegetation
4				Morphological Adaptations
5				¹ Indicators of <u>hydric</u> soil and wetland hydrology must be present,
6.				unless disturbed or problematic.
7		= Tota	I Caucan	Definitions of Vegetation Strata:
Herb Stratum (Plot size: 5' RAD )		= 10ta	Cover	Tree - Woody plants, excluding woody vines, approximately 20ft
1. Rubus idaeus	32	х	FACU	(6m) or more in height and 3in (7.6cm) or larger in diameter at
2. Rubus allegheniensis	67	$\frac{x}{x}$	FACU	breast height (DBH).
3. Equisetum sylvaticum	67	$\frac{x}{x}$	FACW	
4. Fallopia scandens	21		FAC	Sapling - Woody plants, excluding woody vines, approximately
5.				20ft (6m) or more in height and less than 3in (7.6cm) DBH.
6.				
7.				
8.				Shrub - Woody plants, excluding woody vines, approximately 3 to
q				20ft (1 to 6m) in height.
10				
11				Herb - All herbaceous (non-woody) plants, including herbaceous
12				vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.
	187	= Tota	l Cover	viies, less than approximately six (211) in neight.
Woody Vines (Plot size: 15' RAD )				
1.				
2				Woody vine - All woody vines, regardless of height.
3.	. ——			
4				Hydrophytic
5			1.0	Vegetation Present?  NO
		= Tota	l Cover	Present? NO
Donald (If the model is a combat of a fact of the body)				
Remarks: (If observed, list morphological adaptations below).				

2022-GE-1Wet

Project Site:	K42			r	City/County:	Georgia,	/Franklin		Samp. Date: 5/1	7/2022
Applicant/Owner:	Velco			—`	ally/ County	State:	Vermont	Sampling Point:	2022-G	E-1Wet
Investigator(s):	RS				Section,		nip, Range:	Georgia		
Landform (hillslope, te		Swale		_	Local relief (			Concave	Slope (%):	0-8
Subregion (LRR or		LRR R	يَلِ	at:	44.780225		Long:	-73.130427	Datum:	NAD 83
Soil Map Unit:	Georgia e	xtremely stony	/ loam	_			-		NWI Class:	PEM
Are climatic/hydrole	ogic conditi	ions on the site	typical for this time of	year	r?	Yes	(If no, ex	xplain in Remarks.)		
Are Vegetation, Soil	l, or Hydrol	ogy significantl	ly disturbed? <u>No</u>				-	Normal Cir	cumstances?	Yes
Are Vegetation, Soil	l, or Hydrol	ogy naturally p	roblematic? No					(If needed, e	xplain any answe	rs in Remarks.)
								_		
			ite map showing sa	<u>amı</u>	ple point lo	ocation	is, transed	cts, important fea	itures, etc.	
Hydrophytic Vegeta		it?	YES			İ	La Thiis d	C 1 - A 14/24/- !	- 144-4112	VEC
Hydric Soil Present?			YES			İ	is This S	Sample Area Within	a Wetland?	YES
Wetland Hydrology Remarks:	Present?		YES							
HYDROLOGY										
Wetland Hydrology								Secondary Indicator		vo required)
,		of one is require	ed; check all that apply)					Surface Soil Cr	. ,	
X Surface Water			<u>X</u> <u>Water</u> -Stained Lea		(B9)			X Drainage Patte		
X High Water Ta	, ,		Aquatic Fauna (B1					Moss Trim Line		
X Saturation (A3			Marl Deposits (B1					Dry-Season W		
Water Marks (			Hydrogen Sulfide			(00)		Crayfish Burro		
Sediment Dep			Oxidized Rhizosph		-	:s (C3)			ble on Aerial (C9)	
Drift Deposits			Presence of Reduc			(CE)			essed Plants (D1)	
Algal Mat or C			Recent Iron Reduc			(0)		Geomorphic P Shallow Aguita		
Inundation Vis		al (B7)	Other (Explain in F		-			Microtopograp		
		ve Surface (B8)	Other (Explain III )	· ·	urks)			FAC-Neutral To		
Field Observations:										
Surface Water Prese	ont?		Depth (inche	c).						
Water Table Presen			Depth (inches				Wetland	d Hydrology Present?		YES
Saturation Present?			Depth (inches				vvetiane	i riyurology r resent:	_	163
Remarks:										
	(Describe t	o the depth ne	eded to document the i	indi	cator or confi	rm the a	bsence of in	dicators.)		
Depth	Matrix	•	ŗ	Redo	ox Features					
(in) Color (	(moist)	%	Color (moist)		%	Type ¹	Loc ²	Texture	Ren	narks
0-6		100		_				MUCK		
6-16 2.5y	5/2	90	2.5Y 6/6	_	10	c	M	SANDY CLAY		
				_						
		- ——		_						
				—						
¹ Type: C=Concentration,	D=Depletion,	RM=Reduced Mat	rix, MS=Masked Sand Grains.	_				² Location: PL=Pore Lining	, M=Matrix.	
Hydric Soil Indicator	rs:							Indicators for Proble	ematic Hydric Soi	s ³ :
			D. I. I.		6 6 (60)	(100.0				
Histosol (A1)	- (42)				ow Surface (S8)	(LRR R,			.0) (LRR K, L, MLRA	
Histic Epipedo Black Histic (A			MLRA 1		) face (S9) (LRR R,	MIDA 14	IQD)		edox (A16) (LRR K, eat or Peat (S3) (LRI	
Hydrogen Sulf					Mineral (F1) (LI		130)		59) (LRR K, L, M)	Λ K, L, K)
Stratified Laye					Matrix (F2)	т к, ц			w Surface (S8) (LRR	K 1)
Depleted Belo		ace (A11)	X Depleted						ace (S9) (LRR K, L)	14, 2,
Thick Dark Sur		100 (7.121)	Redox Dar						se Masses (F12) (LR	R K. L. R)
Sandy Mucky I	, ,				Surface (F7)				dplain Soils (F19) (N	
Sandy Gleyed			Redox Der						TA6) (MLRA 144A, 1	
Sandy Redox (								Red Parent Ma		
Stripped Matr	ix (S6)		;	³Indi	icators of hydro	phytic ve	getation and	Very Shallow [	Oark Surface (TF12)	
Dark Surface (	S7) (LRR R, N	/ILRA 149B)			nd hydrology m		_	Other (Explain	in Remarks)	
<u> </u>							problematic.			
Restrictive Layer (if	observed):									
Type:								Hydric	Soil Present?	YES
Depth (inches):										
Remarks:										

		7		
T () () () () () () ()	Absolute	Dom.	Indicator	[ - · · · - · · · · · · · · · · · · · ·
Tree Stratum (Plot size: 30' RAD )	% Cover	Sp?	Status	Dominance Test Worksheet:
1				# Dominants OBL, FACW, FAC: <b>3</b> (A)
2				
				# Dominants across all strata: 3 (B)
3. 4.				(-/
5				% Dominants OBL, FACW, FAC: 100% (A/B)
6				
7.				Prevalence Index Worksheet:
···		= Total	Cover	
		= Total	cover	
Sapling Stratum (Plot size: 15' RAD )				OBL 10 x 1 = 10
1				FACW <b>96</b> x 2 = <b>192</b>
3				FAC x 3 =
2				FACU x 4 =
4				<u>UPL</u> <u>x</u> 5 =
5				Sum: <b>106</b> (A) <b>202</b> (B)
6.				
7.				Prevalence Index = B/A = 1.91
··				Frevalence index - b/A - 1.31
		= Total	Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15' RAD )				X Dominance Test is > 50%
·	15	v	EACIA!	X Prevalence Index is <= 3.0
1. Alnus incana		<u> x</u>	FACW	I ——
2				Problematic <u>Hydrophytic</u> Vegetation ¹ (explain)
3				Rapid Test for <u>Hydrophytic</u> Vegetation
4				Morphological Adaptations
-				
5				¹ Indicators of <u>hydric</u> soil and wetland hydrology must be present,
6				unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
	15	= Total	Cover	
Hards Christians (Districts FIDAD )		10101	00101	Trop West state with the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of
Herb Stratum (Plot size: 5' RAD )				Tree - Woody plants, excluding woody vines, approximately 20ft
1. Onoclea sensibilis	38	X	FACW	(6m) or more in height and 3in (7.6cm) or larger in diameter at breast height (DBH).
2. Impatiens capensis	38	Х	FACW	breast neight (DBH).
3. Caltha palustris	10		OBL	
				Carlina va da
			FACW	
4. <u>Phalaris</u> arundinacea				Sapling - Woody plants, excluding woody vines, approximately
5.				20ft (6m) or more in height and less than 3in (7.6cm) DBH.
5. 6.		<u> </u>		
5. 6. 7.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.
5. 6. 7. 8.	-	<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to
5. 6. 7.				20ft (6m) or more in height and less than 3in (7.6cm) DBH.
5. 6. 7. 8.				20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to
5. 6. 7. 8. 9.				20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.
5. 6. 7. 8. 9. 10.				20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous
5. 6. 7. 8. 9.				20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody
5. 6. 7. 8. 9. 10.		= Total	Cover	20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous
5. 6. 7. 8. 9. 10. 11.		= Total	Cover	20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody
5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size: 15' RAD )		= Total	Cover	20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody
5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size: 15' RAD ) 1.		= Total	Cover	20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.
5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size: 15' RAD )		= Total	Cover	20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody
5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size: 15' RAD ) 1. 2.		= Total	Cover	20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.
5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size: 15' RAD ) 1. 2. 3.		= Total	Cover	20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.
5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size: 15' RAD ) 1. 2. 3. 4.		= Total	Cover	20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic
5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size: 15' RAD ) 1. 2. 3.		= Total	Cover	20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size: 15' RAD ) 1. 2. 3. 4.		= Total		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic
5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size: 15' RAD ) 1. 2. 3. 4.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:15' RAD) 1. 2. 3. 4. 5.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size: 15' RAD ) 1. 2. 3. 4.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:15' RAD) 1. 2. 3. 4. 5.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:15' RAD) 1. 2. 3. 4. 5.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:15' RAD) 1. 2. 3. 4. 5.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:15' RAD) 1. 2. 3. 4. 5.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:15' RAD) 1. 2. 3. 4. 5.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:15' RAD) 1. 2. 3. 4. 5.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:15' RAD) 1. 2. 3. 4. 5.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:15' RAD) 1. 2. 3. 4. 5.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:15' RAD) 1. 2. 3. 4. 5.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:15' RAD) 1. 2. 3. 4. 5.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:15' RAD) 1. 2. 3. 4. 5.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation
5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:15' RAD) 1. 2. 3. 4. 5.		<u> </u>		20ft (6m) or more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation



Project Site:	K42			City/County:	St Alba	ns /Franklin		Samp. Date: 5/1	17/2022
Applicant/Owner:	Velco				State:	Vermont	Sampling Point:		A-1-Up
Investigator(s):	RS						St Albans		
Landform (hillslope, to		Terrace		_	f (concave,	convex, none): _	Convex	Slope (%):	
Subregion (LRR or Soil Map Unit:	MILKA):	LRR R	Lat	44.780048		Long: _	-73.130455	Datum: NWI Class:	NAD 83 Upland
•	ogic condit	ions on the site	typical for this time of ye	ear?	Yes	(If no. ex	xplain in Remarks.)	INVVI Class.	Opiano
Are Vegetation, Soil				-ui <u>-</u>	103	- (11110, 6)		cumstances?	Yes
Are Vegetation, Soil			70000				_	xplain any answe	
					losatio				
Hydrophytic Vegeta			te map showing sar NO	npie point	T	ns, transec	cts, important rea	atures, etc.	
Hydric Soil Present?		.10:	NO NO			Is This	Sample Area Within	a Wetland?	NO
Wetland Hydrology		-	NO			15 11115	Sample Area Within		
Remarks:	TTC5CITC.		110						
HADBUI UCA									
HYDROLOGY Wetland Hydrology	Indicators						Secondary Indicator	rs (minimum of ty	wo required)
			d; check all that apply)				Surface Soil Cr		wo required)
Surface Water			Water-Stained Leav	es (B9)		-	Drainage Patte		
High Water Ta		-	Aquatic Fauna (B13)	)			Moss Trim Line		
Saturation (A3	3)	•	Marl Deposits (B13)				Dry-Season W	ater Table (C2)	
Water Marks (	(B1)	•	Hydrogen Sulfide Od	dor (C1)			Crayfish Burro	ws (C8)	
Sediment Dep	osits (B2)		Oxidized Rhizospher	res on Living Roc	ots (C3)		Saturation Visi	ible on Aerial (C9)	
Drift Deposits	(B3)		Presence of Reduce	d Iron (C4)			Stunted or Str	essed Plants (D1)	
Algal Mat or C			Recent Iron Reducti		(C6)		Geomorphic P		
Iron Deposits (			Thin Muck Surface (				Shallow Aquita		
Inundation Vis			Other (Explain in Re	marks)			Microtopograp		
	tated Conca	ve Surface (B8)					FAC-Neutral T	est (D5)	
Field Observations:									
Surface Water Prese			Depth (inches)						
Water Table Presen Saturation Present?			Depth (inches) Depth (inches)			Wetland	d Hydrology Present?	_	NO
		m gaugo monit	oring well, aerial photos		octions)	if available:			
			5" for the week ending						
0.39 OI Kalii iii ti	ie 5 uays	יייייייייייייייייייייייייייייייייייייי	o for the week ending	3 111 3/20/22 1	ileai iloi	IIIai(NOAA)			
D									
Remarks:									
COII									
SOIL Profile Description:	(Describe t	to the depth ner	eded to document the in	dicator or cont	firm the a	hsence of in	dicators )		
Depth	Matrix	.o the depth net		dox Features		absence of in	arcators.,		
(in) Color (		%	Color (moist)	%	Type ¹	Loc²	Texture	Rer	marks
	R 4/3	100	color (moise)		-765		FINE SANDY LOAM	··············	
-	•			-				1	
					. ——				
¹ Type: C=Concentration	D-Donlotion	PM-Poduced Matr	x, MS=Masked Sand Grains.				² Location: PL=Pore Lining	M-Matrix	
		Titl Reduced Mach	x, mo mastea sana orans.						. 3
Hydric Soil Indicator	rs:						Indicators for Proble	ematic <u>Hydric</u> Soi	IS:
Histosol (A1)			Polyvalue Be	elow Surface (S8	3) (LRR R,		2 cm Muck (A:	lo) (LRR K, L, MLRA	149B)
Histic Epipedo			MLRA 149	•				ledox (A16) (LRR K,	
Black <u>Histic</u> (A				urface (S9) (LRR		49B)		eat or Peat (S3) (LR	R K, L, R)
Hydrogen Sulf				ky Mineral (F1) (	LRR K, L)			S9) (LRR K, L, M)	
Stratified Laye		(022)		ed Matrix (F2)				w Surface (S8) (LRF	( K, L)
Depleted Belo		ace (A11)	Depleted M					ace (S9) (LRR K, L)	א ו א פּוּ
Thick Dark Sur			Redox Dark	Surface (F6) ark Surface (F7)				se Masses (F12) (LF	
Sandy Mucky I Sandy Gleyed			Redox Depre					dplain Soils (F19) (I TA6) (MLRA 144A, :	
Sandy Gleyed Sandy Redox (			venov nebu	C2310113 (FO)			Red Parent Ma		±3, ±30J
Stripped Matr			3,_	ndicators of hydr	ronhutio	agetation and		Dark Surface (TF12)	
Dark Surface (		√ILRA 149R\		land hydrology i		-	Other (Explain		
sank sanace (	/ (=:111 11) 1		wet		•	problematic.		Action Roj	
Restrictive Layer (if	observed):			ui.		,			
	Rock						Hydric	Soil Present?	NO
Depth (inches):	6								
Remarks:								<u> </u>	

	Absolute	Dom.	Indicator		
Tree Stratum (Plot size: 30' RAD )	% Cover	Sp?	Status	Dominance Test Worksheet:	
1				# Dominants OBL, FACW, FAC: 2	(A)
2.					
3.				# Dominants across all strata: 9	(B)
4					
	- ———			0/ 5	(* (*)
5				% Dominants OBL, FACW, FAC: 22%	(A/B)
6					
7				Prevalence Index Worksheet:	
		= Total	Cover	Total % Cover of: Multiply B	y:
Sapling Stratum (Plot size: 15' RAD )				OBL x 1 =	<u> </u>
1					
2				<u>FAC</u> <u>x</u> 3 =	
3				FACU <b>113</b> x 4 = <b>452</b>	
4				UPL <b>15</b> x 5 = <b>75</b>	
5.				Sum: 158 (A) 587	(B)
7				Prevalence Index = B/A = 3.72	
		= Total	Cover	Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size: 15' RAD )				Dominance Test is > 50%	
1. Berberis thunbergii	15	х	FACU	Prevalence Index is <= 3.0	
	15	$\overline{}$		l <del></del>	
2. Lonicera morrowii		<u>x</u>	FACU	Problematic Hydrophytic Vegetation ¹	
3. <u>Thuja occidentalis</u>	15	x	FACW	Rapid Test for <u>Hydrophytic</u> Vegetation	ı
4. Rubus idaeus	15	Х	FACU	Morphological Adaptations	
5.				¹ Indicators of <u>hydric</u> soil and wetland hydrology must be	
_				unless disturbed or problematic.	present,
7				Definitions of Vegetation Strata:	
	60	= Total	Cover		
Herb Stratum (Plot size:				Tree - Woody plants, excluding woody vines, approxima	
1. Galium mollugo	38	Х	FACU	(6m) or more in height and 3in (7.6cm) or larger in diame	eter at
2. Tussilago farfara	15		FACU	breast height (DBH).	
3. Thalictrum pubescens	15	<u>x</u>	FACW		
				Carlina w	
4. Asclepias syriaca	15	X	UPL	Sapling - Woody plants, excluding woody vines, approx	
5. Fragaria virginiana	15	x	FACU	20ft (6m) or more in height and less than 3in (7.6cm) DB	п.
6.					
7.					
8.	-			Shrub - Woody plants, excluding woody vines, approxi	mately 3 to
9.				20ft (1 to 6m) in height.	
	- ———				
10					
11				Herb - All herbaceous (non-woody) plants, including he	
12.				vines, regardless of size. Includes woody plants, except v	voody
	98	= Total	Cover	vines, less than approximately 3ft (1m) in height.	
Woody Vines (Plot size: 15' RAD )					
1.					
				Woody vine - All woody vines, regardless of height.	
2				WOOdy VITIE - All woody vines, regardless of neight.	
3.					
4				Hydrophytic	
5.				Vegetation	
		= Total	Cover	Present? NO	
		1014	***************************************		_
				<u>l</u>	
Remarks: (If observed, list morphological adaptations below).					

Project Site:	K42			City/County:	St <u>Alba</u>	ns /Franklin		Samp. Date: 5/	17/2022
Applicant/Owner:	Velco			_ city, county.	State:	Vermont	Sampling Point:		SA-1-wet
Investigator(s):	BG			_		hip, Range:	St Albans		
Landform (hillslope, to		Terrace		Local reliet	f (concave,	convex, none): _	Concave	Slope (%):	
Subregion (LRR or	MLRA):	LRR R	Lat	44.780228		Long:	-73.130423	Datum:	NAD 83
Soil Map Unit:	1 114	tana ana aharatan	Anna taral Carable ta Atana a Gara			/16	l.i in Dl	NWI Class:	PEM
			typical for this time of ye	ear <u>r</u>	Yes	- (IT no, e	xplain in Remarks.)		V
Are Vegetation, Soi Are Vegetation, Soi			70000					rcumstances? explain any answ	Yes
Are vegetation, 301	i, or riyuror	logy flaturally pr	oblematic: NO					capitalli aliy alisw	ers in Kemarks.)
SUMMARY OF	FINDING	S - Attach si	te map showing sai	mnle noint	locatio	ns transe	cts important fe	atures etc	
Hydrophytic Vegeta			YES	mpie point	T	is, transe	cts, important re-	<u> </u>	
Hydric Soil Present?			YES			Is This	Sample Area Within	a Wetland?	YES
Wetland Hydrology			YES			15 11115	sample / il ca vi timi		
Remarks:					-				
HYDROLOGY									
Wetland Hydrology	Indicators						Secondary Indicato	rs (minimum of t	wo required)
			ed; check all that apply)				Surface Soil C		worequirea
X Surface Water			Water-Stained Leav	res (B9)		-	Drainage Patt		
High Water Ta			Aquatic Fauna (B13				Moss Trim Lin	es (B16)	
X Saturation (A3	3)		Marl Deposits (B13)	1			Dry-Season W	ater Table (C2)	
Water Marks	(B1)	,	Hydrogen Sulfide O	dor (C1)			Crayfish Burro	ows (C8)	
Sediment Dep	osits (B2)		Oxidized Rhizosphe	res on Living Roo	ots (C3)		Saturation Vis	ible on Aerial (C9)	
Drift Deposits	(B3)		Presence of Reduce	d Iron (C4)			Stunted or Str	essed Plants (D1)	
Algal Mat or C			Recent Iron Reducti		(C6)		Geomorphic F		
Iron Deposits			Thin Muck Surface (				Shallow Aquit		
Inundation Vis			Other (Explain in Re	emarks)				phic Relief (D4)	
		ve Surface (B8)					FAC-Neutral T	est (D5)	
Field Observations:									
Surface Water Pres		X	Depth (inches)						
Water Table Present Saturation Present?			Depth (inches) Depth (inches)			Wetland	d Hydrology Present?	_	YES
		X	oring well, aerial photos	Juliace	+:\	:£: - - -			
			- ·						
0.39 Of Kain in tr	ne o days į	0.101; PD31 U.8	5" for the week ending	2 IN 3/20/22 I					
			•	<b>5</b> ,,		iliai(itOAA)			
Dama alla						mai(NOAA)			
Remarks:				<b></b> ,,					
Remarks:		,				mai(NOAA)			
Remarks:						mai(NOAA)			
				,					
SOIL	(0)								
SOIL Profile Description:	•		eded to document the in	dicator or con					
SOIL Profile Description: Depth	Matrix	o the depth ne	eded to document the in	dicator or con edox Features	firm the a	bsence of in	dicators.)		
SOIL Profile Description: Depth (in) Color (	Matrix (moist)	to the depth ned	eded to document the in	dicator or con			dicators.) Texture	Re	marks
SOIL Profile Description: Depth (in) Color ( 0-3 10YF	Matrix (moist) R 2/2	to the depth ned	eded to document the in <u>Re</u> Color (moist)	dicator or con edox Features %	firm the $a$	ubsence of in	dicators.)  Texture  LOAM	Re	marks
SOIL Profile Description: Depth (in) Color 0-3 10YF 3-9 10YF	Matrix (moist) R 2/2 R 5/1	to the depth ned	eded to document the in Re Color (moist) 10YR 4/6	dicator or con edox Features	firm the a	lbsence of in	dicators.)  Texture  LOAM  CLAY LOAM	Re	marks
SOIL Profile Description: Depth (in) Color 0-3 10YF 3-9 10YF	Matrix (moist) R 2/2	% 100 75	eded to document the in <u>Re</u> Color (moist)	dicator or con dox Features %	firm the $a$	ubsence of in	dicators.)  Texture  LOAM	Re	marks
SOIL Profile Description: Depth (in) Color 0-3 10YF 3-9 10YF	Matrix (moist) R 2/2 R 5/1	% 100 75	eded to document the in Re Color (moist) 10YR 4/6	dicator or con dox Features %	firm the $a$	lbsence of in	dicators.)  Texture  LOAM  CLAY LOAM	Re	marks
SOIL	Matrix (moist) R 2/2 R 5/1 6/2	% 100 75 95	eded to document the in Rs Color (moist) 10YR 4/6 10YR 4/6	dicator or con dox Features %	firm the $a$	lbsence of in	dicators.)  Texture  LOAM  CLAY LOAM  CLAY LOAM		marks
SOIL	Matrix (moist) R 2/2 R 5/1 6/2	% 100 75 95	eded to document the in Re Color (moist) 10YR 4/6	dicator or con dox Features %	firm the $a$	lbsence of in	dicators.)  Texture  LOAM  CLAY LOAM		marks
SOIL	Matrix (moist) R 2/2 R 5/1 6/2	% 100 75 95	eded to document the in Rs Color (moist) 10YR 4/6 10YR 4/6	dicator or con dox Features %	firm the $a$	lbsence of in	dicators.)  Texture  LOAM  CLAY LOAM  CLAY LOAM	g, M=Matrix.	
SOIL Profile Description: Depth (in) Color 0-3 10YF 3-9 10YF 9-16 5Y	Matrix (moist) R 2/2 R 5/1 6/2	% 100 75 95	eded to document the in Rs Color (moist) 10YR 4/6 10YR 4/6	dicator or con dox Features % 25 5	firm the a	lbsence of in	dicators.)  Texture  LOAM  CLAY LOAM  CLAY LOAM  CLAY LOAM  -  Location: PL=Pore Linin, Indicators for Proble	g, M=Matrix. ematic <u>Hydric</u> So	iils³:
SOIL Profile Description: Depth (in) Color ( 0-3 10YF 9-16 5Y	Matrix (moist) R 2/2 R 5/1 6/2 D=Depletion,	% 100 75 95	eded to document the in Rs Color (moist) 10YR 4/6 10YR 4/6	dicator or conedox Features % 25 5	firm the a	lbsence of in	dicators.)  Texture  LOAM  CLAY LOAM  CLAY LOAM	g, M=Matrix.	iils³: A 149B)
SOIL Profile Description: Depth (in) Color ( 0-3 10YF 3-9 10YF 9-16 5Y	Matrix (moist) R 2/2 R 5/1 6/2 D=Depletion, rs:	% 100 75 95	eded to document the in  Rs  Color (moist)  10YR 4/6  10YR 4/6  ix, MS=Masked Sand Grains.  Polyvalue B MLRA 145	dicator or conedox Features % 25 5	firm the a	Loc ² M M	dicators.)  Texture LOAM CLAY LOAM CLAY LOAM  ^2Location: PL=Pore Linin Indicators for Probl 2 cm Muck (A Coast Prairie J	g, M=Matrix. ematic <u>Hydric</u> So 10) (LRR K, L, MLRA	nils ³ : A 149B) , L, R)
SOIL Profile Description: Depth (in) Color ( 0-3 10YF 9-16 5Y  Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipede	Matrix (moist) R 2/2 R 5/1 6/2 D=Depletion, rs:	% 100 75 95	eded to document the in Rs Color (moist)  10YR 4/6  10YR 4/6  ix, MS=Masked Sand Grains.  Polyvalue B MLRA 145 Thin Dark Si	dicator or conedox Features	firm the a	Loc ² M M	dicators.)  Texture  LOAM  CLAY LOAM  CLAY LOAM	g, M=Matrix. ematic <u>Hydric</u> So 10) (LRR K, L, MLRA Redox (A16) (LRR K	nils ³ : A 149B) , L, R)
SOIL Profile Description: Depth (in) Color ( 0-3 10YF 3-9 10YF 9-16 5Y  Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipedo Black Histic (A	Matrix (moist) R 2/2 R 5/1 6/2 D=Depletion, rs: on (A2) a3) fide (A4)	% 100 75 95	eded to document the in Re Color (moist)  10YR 4/6  10YR 4/6  ix, MS=Masked Sand Grains.  Polyvalue B MLRA 144 Thin Dark Si Loamy Muc	dicator or con- edox Features    25  5  elow Surface (S8 BB) urface (S9) (LRR	firm the a	Loc ² M M	dicators.)  Texture  LOAM  CLAY LOAM  CLAY LOAM   2 Location: PL=Pore Linin, Indicators for Probl  2 cm Muck (A  Coast Prairie   5 cm Mucky P  Dark Surface (	g, M=Matrix. ematic <u>Hydric</u> So 10) (LRR K, L, MLR <i>R</i> Redox (A16) (LRR K eat or Peat (S3) (LF	sils ³ : A 149B) , L, R) RR K, L, R)
SOIL Profile Description: Depth (in) Color ( 0-3 10YF 3-9 10YF 9-16 5Y  Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf	Matrix (moist) R 2/2 R 5/1 6/2 D=Depletion, rs: on (A2) (33) fide (A4) ers (A5)	to the depth ned  % 100 75 95  RM=Reduced Matr	eded to document the in Re Color (moist)  10YR 4/6  10YR 4/6  ix, MS=Masked Sand Grains.  Polyvalue B MLRA 144 Thin Dark Si Loamy Muc	dicator or con- edox Features % 25 5 elow Surface (S8 9B) urface (S9) (LRR ky Mineral (F1) (ed Matrix (F2)	firm the a	Loc ² M M	dicators.)  Texture  LOAM CLAY LOAM  CLAY LOAM  2Location: PL=Pore Linin, Indicators for Probl 2 cm Muck (A Coast Prairie J 5 cm Mucky P Dark Surface ( Polyvalue Bele	g, M=Matrix. ematic <u>Hydric</u> So 10) (LRR K, L, MLRA 3edox (A16) (LRR K eat or Peat (S3) (LF S9) (LRR K, L, M)	sils ³ : A 149B) , L, R) RR K, L, R)
SOIL Profile Description: Depth (in) Color ( 0-3 10YF 3-9 10YF 9-16 5Y  Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Depleted Belo Thick Dark Sur	Matrix (moist) R 2/2 R 5/1 6/2 D=Depletion, rs: an (A2) 3) fide (A4) ers (A5) by Dark Surfarface (A12)	to the depth ned  % 100 75 95  RM=Reduced Matr	eded to document the in Rs Color (moist)  10YR 4/6 10YR 4/6  ix, MS=Masked Sand Grains.  Polyvalue B MLRA 145 Thin Dark Si Loamy Muc Loamy Gley X Depleted M Redox Dark	elow Surface (S8 )B) urface (S9) (LRR ky Mineral (F1) (ed Matrix (F3) Surface (F6)	firm the a	Loc ² M M	dicators.)  Texture  LOAM  CLAY LOAM  CLAY LOAM  2Location: PL=Pore Linin, Indicators for Probl  2 cm Muck (A  Coast Prairie   5 cm Mucky P  Dark Surface (  Polyvalue Bele  Thin Dark Surl	g, M=Matrix.  ematic Hydric So  10) (LRR K, L, MLRA Redox (A16) (LRR K, eat or Peat (S3) (LF S9) (LRR K, L, M) ow Surface (S8) (LR face (S9) (LRR K, L)	iils ³ : , 149B) , L, R) RR K, L, R) RR K, L, R)
SOIL  Profile Description: Depth (in) Color ( 0-3 10YF 9-16 5Y	Matrix (moist) R 2/2 R 5/1 6/2 D=Depletion, rs: an (A2) (3) fide (A4) ers (A5) ow Dark Surferface (A12) Mineral (S1)	to the depth ned  % 100 75 95  RM=Reduced Matr	eded to document the in Re Color (moist)  10YR 4/6  10YR 4/6  ix, MS=Masked Sand Grains.  Polyvalue B MLRA 14s Thin Dark St Loamy Muc Loamy Muc Loamy Glex X Depleted M Redox Dark Depleted Da	elow Surface (S8 PB) urface (S9) (LRR ky Mineral (F1) (ed Matrix (F3) Surface (F6) ark Surface (F7)	firm the a	Loc ² M M	dicators.)  Texture LOAM CLAY LOAM  CLAY LOAM  2Location: PL=Pore Linin, Indicators for Probl 2 cm Mucky P Coast Prairie J 5 cm Mucky P Dark Surface ( Polyvalue Bele Thin Dark Surf	g, M=Matrix.  ematic Hydric So 10) (LRR K, L, MLR K, eat or Peat (S3) (LF S9) (LRR K, L, M) ow Surface (S8) (LR face (S9) (LRR K, L) ese Masses (F12) (L odplain Soils (F19) (	oils ³ : A 149B) , L, R) RR K, L, R) RR K, L, R) RR K, L, R) (MLRA 149B)
SOIL Profile Description: Depth (in) Color ( 0-3 10YF 3-9 10YF 9-16 5Y  Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipede Black Histic (A Hydrogen Sulf Stratified Laye Depleted Belo Thick Dark Sur Sandy Mucky Sandy Gleved	Matrix (moist) R 2/2 R 5/1 6/2 D=Depletion, rs: an (A2) (A3) fide (A4) ers (A5) ow Dark Surfirface (A12) Mineral (S1) Matrix (S4)	to the depth ned  % 100 75 95  RM=Reduced Matr	eded to document the in Rs Color (moist)  10YR 4/6 10YR 4/6  ix, MS=Masked Sand Grains.  Polyvalue B MLRA 145 Thin Dark Si Loamy Muc Loamy Gley X Depleted M Redox Dark	elow Surface (S8 PB) urface (S9) (LRR ky Mineral (F1) (ed Matrix (F3) Surface (F6) ark Surface (F7)	firm the a	Loc ² M M	dicators.)  Texture LOAM CLAY LOAM  CLAY LOAM  2Location: PL=Pore Linin Indicators for Probl 2 cm Mucky A Coast Prairie J 5 cm Mucky P Dark Surface ( Polyvalue Bele Thin Dark Surf Iron-Mangane Piedmont Floe Mesic Spodic	g, M=Matrix.  ematic Hydric So 10) (LRR K, L, MLRA Redox (A16) (LRS K) (LRR K, L, M) SW Surface (S8) (LR Face (S9) (LRR K, L) ese Masses (F12) (L odplain Soils (F19) ((TA6) (MLRA 144A,	oils ³ : A 149B) , L, R) RR K, L, R) RR K, L, R) RR K, L, R) (MLRA 149B)
SOIL Profile Description: Depth (in) Color ( 0-3 10YF 3-9 10YF 9-16 5Y  Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Depleted Belo Thick Dark Sul Sandy Mucky Sandy Gleyed Sandy Redox (	Matrix (moist) R 2/2 R 5/1 6/2  D=Depletion, rs: on (A2) (A3) fide (A4) ers (A5) ow Dark Surfarface (A12) Mineral (S1) Matrix (S4) (S5)	to the depth ned  % 100 75 95  RM=Reduced Matr	eded to document the in  Re  Color (moist)  10YR 4/6  10YR 4/6  10YR 4/6  ix, MS=Masked Sand Grains.  Polyvalue B MLRA 149 Thin Dark Si Loamy Muc Loamy Gley X Depleted M Redox Dark Depleted De Redox Depr	elow Surface (S8 PB) urface (S9) (LRR ky Mineral (F1) (ed Matrix (F2) latrix (F3) Surface (F6) ark Surface (F7) essions (F8)	firm the a	M M	dicators.)  Texture  LOAM  CLAY LOAM  CLAY LOAM  CLAY LOAM	g, M=Matrix.  ematic Hydric So 10) (LRR K, L, MLRA Redox (A16) (LRR K, eat or Peat (S3) (LF S9) (LRR K, L, M) w Surface (S8) (LR face (S9) (LRR K, L) ese Masses (F12) (L odplain Soils (F19) ((TA6) (MLRA 144A, aterial (F21)	sils ³ : A 149B) L L, R) RR K, L, R) RR K, L, R) RR K, L, R) MLRA 149B) 145, 149B)
SOIL Profile Description: Depth (in) Color ( 0-3 10YF 3-9 10YF 9-16 5Y  Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Depleted Belo Thick Dark Sun Sandy Mucky Sandy Gleyed Sandy Redox ( Stripped Matr	Matrix (moist) R 2/2 R 5/1 6/2 D=Depletion, rs: on (A2) .3) fide (A4) ers (A5) ow Dark Surfirface (A12) Mineral (S1) Matrix (S4) (S5) rix (S6)	% 100 75 95  RM=Reduced Matr	eded to document the in  Rs  Color (moist)  10YR 4/6  10YR 4/6  ix, MS=Masked Sand Grains.  Polyvalue B MLRA 145  Thin Dark Si Loamy Muc Loamy Gley X Depleted Di Redox Depr	elow Surface (S8 BB) urface (S9) (LRR ky Mineral (F1) (ed Matrix (F3) Surface (F6) ark Surface (F7) essions (F8)	firm the a	bsence of in  Loc²  M  M  49B)	dicators.)  Texture  LOAM  CLAY LOAM  CLAY LOAM  CLAY LOAM	g, M=Matrix.  ematic Hydric So 10) (LRR K, L, MLRA kedox (A16) (LRR K, eat or Peat (S3) (LR S9) (LRR K, L, M) w Surface (S8) (LR face (S9) (LRR K, L) see Masses (F12) (L bdplain Soils (F19) ( (TA6) (MLRA 144A, aterial (F21) Dark Surface (TF12	sils ³ : A 149B) L L, R) RR K, L, R) RR K, L, R) RR K, L, R) MLRA 149B) 145, 149B)
SOIL Profile Description: Depth (in) Color ( 0-3 10YF 3-9 10YF 9-16 5Y  Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Depleted Belo Thick Dark Sul Sandy Mucky Sandy Gleyed Sandy Redox (	Matrix (moist) R 2/2 R 5/1 6/2 D=Depletion, rs: on (A2) .3) fide (A4) ers (A5) ow Dark Surfirface (A12) Mineral (S1) Matrix (S4) (S5) rix (S6)	% 100 75 95  RM=Reduced Matr	eded to document the in  Rs  Color (moist)  10YR 4/6  10YR 4/6  ix, MS=Masked Sand Grains.  Polyvalue B MLRA 145  Thin Dark Si Loamy Muc Loamy Gley X Depleted Di Redox Depr	elow Surface (S8 e)B) urface (S9) (LRR ky Mineral (F1) (ed Matrix (F3) Surface (F6) ark Surface (F7) essions (F8)	firm the a	Loc ² M M 49B)	dicators.)  Texture  LOAM  CLAY LOAM  CLAY LOAM  CLAY LOAM	g, M=Matrix.  ematic Hydric So 10) (LRR K, L, MLRA kedox (A16) (LRR K, eat or Peat (S3) (LR S9) (LRR K, L, M) w Surface (S8) (LR face (S9) (LRR K, L) see Masses (F12) (L bdplain Soils (F19) ( (TA6) (MLRA 144A, aterial (F21) Dark Surface (TF12	sils ³ : A 149B) L L, R) RR K, L, R) RR K, L, R) RR K, L, R) MLRA 149B) 145, 149B)
SOIL Profile Description: Depth (in) Color ( 0-3 10YF 3-9 10YF 9-16 5Y  Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Depleted Belo Thick Dark Sur Sandy Mucky Sandy Mucky Sandy Gleyed Sandy Redox ( Stripped Matr Dark Surface (	Matrix (moist) R 2/2 R 5/1 6/2 D=Depletion, rs: on (A2) (3) fide (A4) ers (A5) ow Dark Surfarface (A12) Mineral (S1) Matrix (S4) (S5) ix (S6) (S7) (LRR R, N	To the depth need with the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	eded to document the in  Rs  Color (moist)  10YR 4/6  10YR 4/6  ix, MS=Masked Sand Grains.  Polyvalue B MLRA 145  Thin Dark Si Loamy Muc Loamy Gley X Depleted Di Redox Depr	elow Surface (S8 e)B) urface (S9) (LRR ky Mineral (F1) (ed Matrix (F3) Surface (F6) ark Surface (F7) essions (F8)	firm the a	bsence of in  Loc²  M  M  49B)	dicators.)  Texture  LOAM  CLAY LOAM  CLAY LOAM  CLAY LOAM	g, M=Matrix.  ematic Hydric So 10) (LRR K, L, MLRA kedox (A16) (LRR K, eat or Peat (S3) (LR S9) (LRR K, L, M) w Surface (S8) (LR face (S9) (LRR K, L) see Masses (F12) (L bdplain Soils (F19) ( (TA6) (MLRA 144A, aterial (F21) Dark Surface (TF12	sils ³ : A 149B) L L, R) RR K, L, R) RR K, L, R) RR K, L, R) MLRA 149B) 145, 149B)
SOIL  Profile Description: Depth (in) 0-3 3-9 10YF 9-16  Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Depleted Belo Thick Dark Sun Sandy Mucky Sandy Gleyed Sandy Redox ( Stripped Matr Dark Surface (  Restrictive Layer (if	Matrix (moist) R 2/2 R 5/1 6/2 D=Depletion, rs: an (A2) (3) fide (A4) ers (A5) ow Dark Surfarface (A12) Mineral (S1) Matrix (S4) (S5) ix (S6) (S7) (LRR R, No	To the depth need with the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	eded to document the in  Rs  Color (moist)  10YR 4/6  10YR 4/6  ix, MS=Masked Sand Grains.  Polyvalue B MLRA 145  Thin Dark Si Loamy Muc Loamy Gley X Depleted Di Redox Depr	elow Surface (S8 e)B) urface (S9) (LRR ky Mineral (F1) (ed Matrix (F3) Surface (F6) ark Surface (F7) essions (F8)	firm the a	Loc ² M M 49B)	dicators.)  Texture LOAM CLAY LOAM CLAY LOAM  CLAY LOAM  2Location: PL=Pore Linin, Indicators for Probl 2 cm Muck (A Coast Prairie ( 5 cm Mucky P Dark Surface ( Polyvalue Bele Thin Dark Surf Iron-Mangane Piedmont Floo Mesic Spodic Red Parent M Very Shallow Other (Explair	g, M=Matrix.  ematic Hydric So 10) (LRR K, L, MLRA Redox (A16) (LRR K, eat or Peat (S3) (LF (S9) (LRR K, L, M) ow Surface (S8) (LR face (S9) (LRR K, L) ese Masses (F12) (L odplain Soils (F19) ( (TA6) (MLRA 144A, aterial (F21) Dark Surface (TF12 Lin Remarks)	iils ³ : A 149B) , L, R) RR K, L, R) RR K, L, R) (MLRA 149B) 145, 149B)
SOIL Profile Description: Depth (in) Color ( 0-3 10YF 3-9 10YF 9-16 5Y  Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Depleted Belo Thick Dark Sur Sandy Mucky Sandy Mucky Sandy Gleyed Sandy Redox ( Stripped Matr Dark Surface (	Matrix (moist) R 2/2 R 5/1 6/2 D=Depletion, rs: an (A2) (A3) fide (A4) ers (A5) ow Dark Surfirface (A12) Mineral (S1) Matrix (S4) (S5) oix (S6) observed):	To the depth need with the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	eded to document the in  Rs  Color (moist)  10YR 4/6  10YR 4/6  ix, MS=Masked Sand Grains.  Polyvalue B MLRA 145  Thin Dark Si Loamy Muc Loamy Gley X Depleted Di Redox Depr	elow Surface (S8 e)B) urface (S9) (LRR ky Mineral (F1) (ed Matrix (F3) Surface (F6) ark Surface (F7) essions (F8)	firm the a	Loc ² M M 49B)	dicators.)  Texture LOAM CLAY LOAM CLAY LOAM  CLAY LOAM  2Location: PL=Pore Linin, Indicators for Probl 2 cm Muck (A Coast Prairie ( 5 cm Mucky P Dark Surface ( Polyvalue Bele Thin Dark Surf Iron-Mangane Piedmont Floo Mesic Spodic Red Parent M Very Shallow Other (Explair	g, M=Matrix.  ematic Hydric So 10) (LRR K, L, MLRA kedox (A16) (LRR K, eat or Peat (S3) (LR S9) (LRR K, L, M) w Surface (S8) (LR face (S9) (LRR K, L) see Masses (F12) (L bdplain Soils (F19) ( (TA6) (MLRA 144A, aterial (F21) Dark Surface (TF12	sils ³ : A 149B) L L, R) RR K, L, R) RR K, L, R) RR K, L, R) MLRA 149B) 145, 149B)
SOIL  Profile Description: Depth (in) O-3 3-9 10YF 9-16   Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipede Black Histic (A Hydrogen Sulf Stratified Laye Depleted Belo Thick Dark Sur Sandy Mucky Sandy Gleyed Sandy Redox ( Stripped Matr Dark Surface (  Restrictive Layer (if Type:	Matrix (moist) R 2/2 R 5/1 6/2 D=Depletion, rs: an (A2) (A3) fide (A4) ers (A5) ow Dark Surfirface (A12) Mineral (S1) Matrix (S4) (S5) oix (S6) observed):	To the depth need with the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	eded to document the in  Rs  Color (moist)  10YR 4/6  10YR 4/6  ix, MS=Masked Sand Grains.  Polyvalue B MLRA 145  Thin Dark Si Loamy Muc Loamy Gley X Depleted Di Redox Depr	elow Surface (S8 e)B) urface (S9) (LRR ky Mineral (F1) (ed Matrix (F3) Surface (F6) ark Surface (F7) essions (F8)	firm the a	Loc ² M M 49B)	dicators.)  Texture LOAM CLAY LOAM CLAY LOAM  CLAY LOAM  2Location: PL=Pore Linin, Indicators for Probl 2 cm Muck (A Coast Prairie ( 5 cm Mucky P Dark Surface ( Polyvalue Bele Thin Dark Surf Iron-Mangane Piedmont Floo Mesic Spodic Red Parent M Very Shallow Other (Explair	g, M=Matrix.  ematic Hydric So 10) (LRR K, L, MLRA Redox (A16) (LRR K, eat or Peat (S3) (LF (S9) (LRR K, L, M) ow Surface (S8) (LR face (S9) (LRR K, L) ese Masses (F12) (L odplain Soils (F19) ( (TA6) (MLRA 144A, aterial (F21) Dark Surface (TF12 Lin Remarks)	iils ³ : A 149B) , L, R) RR K, L, R) RR K, L, R) (MLRA 149B) 145, 149B)

	Absoluto	Dom	Indicator	T
Tree Stratum (Plot size: <b>30' RAD</b> )	Absolute % Cover	Dom. Sp?	Status	Dominance Test Worksheet:
1.			MAMANA	# Dominants OBL, FACW, FAC: 3 (A)
2.				# DOMINIANIS ODE, FROW, FAC.
2				# Dominants across all strata: <b>3</b> (B)
1				
г				% Dominants OBL, FACW, FAC: <b>100</b> % (A/B)
	-			Prevalence Index Worksheet:
7.		= Total	Cover	Total % Cover of: Multiply By:
Sapling Stratum (Plot size: 15' RAD )		- 1010.	CONCI	OBL 6 x 1 = 6
				FACW 53 x 2 = 106
2				FAC 15 x3 = 45
2				FACU x4=
-				UPL <b>3</b> x5= <b>15</b>
				Sum: <b>77</b> (A) <b>172</b> (B)
				Sum
	- — —			Prevalence Index = B/A = 2.23
/	- ——			Prevalence mack - 5/14
		= Total	l Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15' RAD )		- 1010.	COXCI	X Dominance Test is > 50%
				X Prevalence Index is <= 3.0
				Problematic Hydrophytic Vegetation (explain)
				Rapid Test for <u>Hydrophytic</u> Vegetation
4				Morphological Adaptations
-				I —
				¹ Indicators of hydric soil and wetland hydrology must be present,
				unless disturbed or problematic.
7		- Total	Cover	Definitions of Vegetation Strata:
Herb Stratum (Plot size: 5' RAD )		= Total	Cover	Tree - Woody plants, excluding woody vines, approximately 20ft
	32	v	FACW	(6m) or more in height and 3in (7.6cm) or larger in diameter at
1. Phalaris arundinacea	15	<u> </u>	FACW	breast height (DBH).
2. Equisetum arvense	15	- <del>X</del>		
Onoclea sensibilis     Viola cucullata	3		FACW_ OBL	Serling Westerlete evaluating weeds vines approximately
Viola cucullata     Thelypteris palustris			FACW	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH.
6. Vicia cracca L.			UPL	2500 (2007) 2000 2000 2000 2000 2000 2000 2000
7. <u>Lythrum</u> salicaria 8. Eupatorium perfoliatum	3		FACW	Charles and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contr
***************************************			FACVV	Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.
9.				Zote (1 to only in neight
10.	- ——			
11.	- ——			Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody
12.		T-+-		vines, less than approximately 3ft (1m) in height.
	77	= Total	Cover	
Woody Vines (Plot size:)				
1.	- ——			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2.	- ——			Woody vine - All woody vines, regardless of height.
3.	- ——			
4	- ——			Hydrophytic
5	- ——			Vegetation
		= Total	Cover	Present? YES
Remarks: (If observed, list morphological adaptations below).				

2022-SA-3-Up

Project Site:	K42			City/County:	St Albar	s /Franklin		Samp. Date: 5/2	17/2022
Applicant/Owner:	Velco				State:	Vermont	Sampling Point:	2022-9	A-3-Up
Investigator(s):	RS			Section		nip, Range:	St Albans		
Landform (hillslope, to	errace, etc.):	Terrace		Local relief	(concave, c	convex, none):	Convex	Slope (%):	0-6
Subregion (LRR or	MLRA):	LRR R	<u>Lat</u> :	44.810787		Long:	-73.1176662	Datum:	NAD 83
Soil Map Unit:	Massena	extremely stony	/ loam					NWI Class:	Upland
Are climatic/hydrol	ogic conditi	ons on the site	typical for this time of ye	ar?	Yes	(If no, e	xplain in Remarks.)		
Are Vegetation, Soi	l, or Hydrolo	ogy significantly	disturbed? <u>No</u>				Normal Cir	rcumstances?	Yes
Are Vegetation, Soi	l, or Hydrolo	ogy naturally pr	oblematic? No				(If needed, e	xplain any answe	rs in Remarks.)
							_		
			e map showing sar	nple point l	ocation	ns, transe	cts, important fea	atures, etc.	
Hydrophytic Vegeta		ıt?	NO						
Hydric Soil Present?		-	NO			Is This	Sample Area Within	a Wetland?	NO
Wetland Hydrology	Present?		NO						
Remarks:									
HYDROLOGY									
Wetland Hydrology	Indicators						Secondary Indicator	rs (minimum of ty	vo required)
		of one is require	d; check all that apply)				Surface Soil Cr		wo required)
Surface Water		Torre is require	Water-Stained Leave	es (R9)		-	Drainage Patte	` ,	
High Water Ta	, ,	-	Aquatic Fauna (B13)				Moss Trim Line		
Saturation (A3		-	Marl Deposits (B13)					ater Table (C2)	
Water Marks	·=·	-	Hydrogen Sulfide Oc	dor (C1)			Crayfish Burro		
Sediment Dep		-	Oxidized Rhizospher	. ,	ts (C3)			ible on Aerial (C9)	
Drift Deposits		-	Presence of Reduce		(/			essed Plants (D1)	
Algal Mat or C		-	Recent Iron Reduction		(C6)		Geomorphic P		
Iron Deposits	(B5)	-	Thin Muck Surface (				Shallow Aquita		
Inundation Vis		ıl (B7)	Other (Explain in Re					ohic Relief (D4)	
Sparsely Vege	tated Concav	re Surface (B8)					FAC-Neutral T	est (D5)	
Field Observations:									
Surface Water Pres	ent?		Depth (inches):						
Water Table Presen	ıt?		Depth (inches):			Wetland	d Hydrology Present?		NO
Saturation Present?	?		Depth (inches):						
	-		oring well, aerial photos,	-					
0.39" of Kain in tr	ne 5 days p	rior; PDSI 0.8:	5" for the week ending	; in 5/20/22 n	iear nori	mai(NOAA)			
D 1									
Remarks:									
COLL									
SOIL	/Doscribo t	o the depth nec	eded to document the inc	dicator or conf	irm the a	heanca of in	dicators \		
Depth	Matrix	Julie deputi fiee		dox Features	iiiii tiie a	DSEILCE OF III	dicators.)		
· -					Tuno ¹	Loc ²	T	D	
	(moist) r <b>3/3</b>	- <del>%</del> 100	Color (moist)	%	Type ¹		Texture SANDY LOAM	<u></u>	narks
	R 3/6	100					SAND		
1 _{Turner} C-Consentantion	D-Douleties	DN4-Dodusod Motei	v MC-Mackad Cand Crains	- ——			² Location: PL=Pore Lining	- M-Matrix	····
		Rivi=Reduced Iviatri	x, MS=Masked Sand Grains.						3
Hydric Soil Indicato	rs:						Indicators for Proble	ematic <u>Hydric</u> Soi	ls³:
Histosol (A1)			Polyvalue Be	low Surface (S8)	) (LRR R,		2 cm Muck (A	10) (LRR K, L, MLRA	149B)
Histic Epipedo	n (A2)		MLRA 149	В)			Coast Prairie E	Redox (A16) (LRR K,	L, R)
Black <u>Histic</u> (A	.3)		Thin Dark Su	ırface (S9) (LRR R	R, MLRA 14	19B)	5 cm Mucky Po	eat or Peat (S3) (LR	R K, L, R)
Hydrogen Sulf	ide (A4)		Loamy Muck	ky Mineral (F1) (L	LRR K, L)		Dark Surface (	S9) (LRR K, L, M)	
Stratified Laye	ers (A5)		Loamy Gleye	ed Matrix (F2)			Polyvalue Belo	ow Surface (S8) (LRF	R K, L)
Depleted Belo	w Dark Surfa	ce (A11)	Depleted Ma	atrix (F3)			Thin Dark Surf	ace (S9) (LRR K, L)	
Thick Dark Sur	rface (A12)		Redox Dark	Surface (F6)			Iron-Mangane	se Masses (F12) (LF	RR K, L, R)
Sandy Mucky	Mineral (S1)		Depleted Da	rk Surface (F7)			Piedmont Floo	dplain Soils (F19) (I	MLRA 149B)
Sandy Gleyed	Matrix (S4)		Redox Depre	essions (F8)			Mesic Spodic (	TA6) (MLRA 144A,	145, 149B)
Sandy <u>Redox</u> (	S5)						Red Parent Ma	aterial (F21)	
Stripped Matr	ix (S6)		³ In	dicators of hydro	ophytic ve	getation and	Very Shallow I	Dark Surface (TF12)	
Dark Surface (	S7) (LRR R, M	ILRA 149B)	wet	land hydrology m			Other (Explain	in Remarks)	
				dis	turbed or	problematic.			
Restrictive Layer (if	•								
Type:							Hydric	Soil Present?	NO
Depth (inches): Remarks:							<u> </u>		
Nemarks.									

Indicator Status  A Cover	# Dominants OBL, FACW, FAC: 2 (A)  # Dominants OBL, FACW, FAC: 5 (B)  % Dominants OBL, FACW, FAC: 40% (A/B)  Prevalence Index Worksheet:  Total % Cover of: Multiply By:  OBL
	# Dominants across all strata: 5 (B)  % Dominants OBL, FACW, FAC: 40% (A/B)  Prevalence Index Worksheet:  Total % Cover of: Multiply By:  OBL x 1 = FACW x 2 = FAC 53 x 3 = 159  FACU 83 x 4 = 332
	% Dominants OBL, FACW, FAC: 40% (A/B)  Prevalence Index Worksheet:  Total % Cover of: Multiply By:  OBL x 1 = FACW x 2 = FAC 53 x 3 = 159  FACU 83 x 4 = 332
	% Dominants OBL, FACW, FAC: 40% (A/B)  Prevalence Index Worksheet:  Total % Cover of: Multiply By:  OBL x 1 = FACW x 2 = FAC 53 x 3 = 159  FACU 83 x 4 = 332
	Prevalence Index Worksheet:  Total % Cover of:  OBL
	Prevalence Index Worksheet:  Total % Cover of:  OBL  x 1 =  FACW  x 2 =  FAC  53  x 3 =  TACU  83  x 4 =  332
	Prevalence Index Worksheet:  Total % Cover of:  OBL  X 1 =  FACW  X 2 =  FAC  53  X 3 =  FACU  83  X 4 =  332
	Total % Cover of:         Multiply By:           OBL         x 1 =           FACW         x 2 =           FAC         53         x 3 =         159           FACU         83         x 4 =         332
	OBL       x 1 =         FACW       x 2 =         FAC       53       x 3 =       159         FACU       83       x 4 =       332
	OBL       x 1 =         FACW       x 2 =         FAC       53       x 3 =       159         FACU       83       x 4 =       332
	FACU
	FACU 83 x 3 = 159 FACU 83 x 4 = 332
	UPL <b>15</b> x 5 = <b>75</b>
al Cavar	
al Court	Sum: <b>151</b> (A) <b>566</b> (B)
al Cavar	
al Cayor	Prevalence Index = B/A = 3.75
al Caucar	
al Cover	Hydrophytic Vegetation Indicators:
-	Dominance Test is > 50%
FAC	Prevalence Index is <= 3.0
	Problematic <u>Hydrophytic</u> Vegetation ¹ (explain)
	Rapid Test for Hydrophytic Vegetation
	Morphological Adaptations
	<del></del>
	¹ Indicators of <u>hydric</u> soil and wetland hydrology must be present, unless disturbed or problematic.
	Definitions of Vegetation Strata:
al Cover	Definitions of Vegetation strata.
ai covei	Tree - Woody plants, excluding woody vines, approximately 20ft
EACH	(6m) or more in height and 3in (7.6cm) or larger in diameter at
- — —	breast height (DBH).
- — —	Sanling Washington
- FACU	Sapling - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and less than 3in (7.6cm) DBH.
	Shrub Washington and discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount
	Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.
	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody
	vines, less than approximately 3ft (1m) in height.
al Cover	
	Woody vine - All woody vines, regardless of height.
	Hydrophytic
	Vegetation
al <u>Cover</u>	Present? NO
	FACU FACU FACU FACU FACU FACU FACU FACU

2022-SA-3-wet

Project	Site:	K42			C	City/County:	St <u>Albar</u>	s /Franklin		Samp. Date: 5/1	7/2022
,	nt/Owner:	Velco					State:	Vermont	Sampling Point:	202 <u>2-</u> S/	
Investig	gator(s):	RS				Section	, Townsł	nip, Range:	St Albans		
Landfor	rm (hillslope, te	errace, etc.):	Terrace			Local relief	(concave, o	convex, none):	Concave	Slope (%):	0-6
-	ion (LRR or	MLRA):	LRR R		.at:_	44.810901		Long:	-73.11772	Datum:	NAD 83
Soil Ma			extremely ston			_				NWI Class:	PEM
				typical for this time of	year	<u>r?</u>	Yes	(If no, ex	kplain in Remarks.)		
			ogy significantl	·						cumstances?	Yes
Are Veg	getation, Soil	l, or Hydrol	ogy naturally p	roblematic? <u>N</u>	<u> </u>				– (If needed, e	xplain any answe	rs in Remarks.)
SUMN	MARY OF	FINDING	S - Attach si	te map showing s	am	ple point l	ocatior	ns, transed	cts, important fea	itures, etc.	
Hydrop	hytic Vegeta	tion Preser	nt?	YES							
Hydric S	Soil Present?	<b>)</b>		YES				Is This S	Sample Area Within	a Wetland?	YES
Wetlan	d Hydrology	Present?		YES							
Remar											
	OLOGY	Indicators							Coondon Indicator	o /mainimama of to	
	, ,,			ed; check all that apply	۸				Secondary Indicator Surface Soil Cr		o requirea)
	Surface Water		71 One is require	Water-Stained Le	•	(RQ)		-	Drainage Patte		
-	High Water Ta			Aquatic Fauna (B		(69)			Moss Trim Line		
	Saturation (A3			Marl Deposits (B					Dry-Season W		
	Water Marks (			Hydrogen Sulfide		r (C1)			Crayfish Burro		
	Sediment Dep			Oxidized Rhizosp			ts (C3)			ble on Aerial (C9)	
	Drift Deposits	(B3)		Presence of Redu	ıced I	Iron (C4)			Stunted or Stre	essed Plants (D1)	
	Algal Mat or C	rust (B4)		Recent Iron Redu	ıction	n in Tilled Soils (	(C6)		Geomorphic P	osition (D2)	
	Iron Deposits (			Thin Muck Surface					Shallow Aquita		
	Inundation Vis		. ,	Other (Explain in	Rema	arks)			Microtopograp		
	· · · -	tated Conca	ve Surface (B8)						FAC-Neutral To	est (D5)	
	bservations:										
	Water Prese			Depth (inche							
	Table Presen ion Present?		X	Depth (inche Depth (inche		Surface		Wetland	Hydrology Present?		YES
Remark	is:										
SOIL		/D 'I i			· 1·				1		
	Description:		o the depth ne	eded to document the			irm the a	bsence of in	dicators.)		
Depth		Matrix			Reac	ox Features	<b>-</b> 1	. 2	<b>+</b> .		
(in) <b>0-6</b>	Color (	- 1-	- <del>%</del> 100	Color (moist)		%	Type ¹	Loc	Texture FINE SANDY LOAM	Ren	narks
6-12		R 4/2 R 6/1	100		—				FINE SANDY LOAM		
12-18	2.5Y		90	2.5y 6/6	—	10	<u>c</u>	M	FINE SANDY LOAM		
					_						
¹Type: C=	Concentration	D=Depletion	RM=Reduced Matu	rix, MS=Masked Sand Grains	_				² Location: PL=Pore Lining	M=Matrix	
	Soil Indicator		- Neudeca Maci	IX, IVIS-IVIOSICE SUITA GIUTIIS					Indicators for Proble		s ³ .
						c f (co)	(LDD D				
	Histosol (A1)	n (A2)				ow Surface (S8)	(LRR R,			.0) (LRR K, L, MLRA : edox (A16) (LRR K, I	
	Histic Epipedo Black <u>Histic</u> (A:			MLRA:		) face (S9) (LRR R	MIRA 1/	19R)		eat or Peat (S3) (LRF	
_	Hydrogen Sulfi					Mineral (F1) (L		130)		59) (LRR K, L, M)	( N, L, N)
	Stratified Laye					Matrix (F2)	······/, <b>-</b> /			w Surface (S8) (LRR	K, L)
	Depleted Belo		ace (A11)	X Depleted						ace (S9) (LRR K, L)	, ,
	Thick Dark Sur	face (A12)		Redox Da	ırk Su	ırface (F6)			Iron-Mangane	se Masses (F12) (LR	R K, L, R)
	Sandy Mucky I	Mineral (S1)		Depleted	Dark	Surface (F7)			Piedmont Floo	dplain Soils (F19) (N	1LRA 149B)
	Sandy Gleyed	Matrix (S4)		Redox De	pres	sions (F8)			Mesic Spodic (	TA6) (MLRA 144A, 1	45, 149B)
	Sandy <u>Redox</u> (	S5)							Red Parent Ma	iterial (F21)	
	Stripped Matri				³ Indi	icators of <u>hydro</u>	ophytic ve	getation and		Oark Surface (TF12)	
<u> </u>	Dark Surface (	S7) (LRR R, N	1LRA 149B)	٧	vetlar	nd hydrology m dist		esent, unless problematic.	Other (Explain	in Remarks)	
Restrict	tive Layer (if					uisi		,			
_	Type:								Hydric	Soil Present?	YES
	pth (inches):										
Remark	is.										

			Absolut	e Dom.	Indicator			
Tree St	ratum (Plot size:	<b>30' RAD</b> )	% Cove	r Sp?	Status	Dominance Test Worksheet:		
1. 2.						# Dominants OBL, FACW, FAC:	4	— ^(A)
3.						# Dominants across all strata:	4	(B)
4.								<b>—</b> ` ′
5.						% Dominants OBL, FACW, FAC:	100%	(A/B)
6								
7					al Causa	Prevalence Index Worksheet:	N.A. Jaim I D.	
Sanling	g Stratum (Plot size:	15' RAD )		= 101	al <u>Cover</u>	Total % Cover of:  OBL 32 x 1 =	Multiply By 32	<u>/:</u>
						FACW 95 x 2 =	190	_
2.						FAC <b>53</b> x 3 =	159	_
3.						<u>FACU</u> <u>x</u> 4 =		_
4						<u>UPL</u> <u>x</u> 5 =		<b>—</b>
5						Sum:(A)	381	— ^(B)
6. 7.						Prevalence Index = B/A =	2.12	
/· <b>-</b>						Trevalence maex = b/A =		_
				= Tot	al <u>Cover</u>	Hydrophytic Vegetation Indicate	ors:	
Shrub S	Stratum (Plot size:	<b>15' RAD</b> )		<del></del>		X Dominance Test is > 50%	)	
1.	Salix bebbiana		32	x	FACW	X Prevalence Index is <= 3.		
						Problematic Hydrophytic	-	
						Rapid Test for Hydrophy		
4						Morphological Adaptatic	ns	
5						¹ Indicators of <u>hydric</u> soil and wetland hy	drology must be p	present,
6. 7.						unless disturbed or problematic.		
/· <b>-</b>					al Cover	Definitions of Vegetation Strata	•	
Herb S	tratum (Plot size:	5' RAD )		100	ai covci	Tree - Woody plants, excluding woody	vines, approxima	telv 20ft
	Onoclea sensibilis		63	х	FACW	(6m) or more in height and 3in (7.6cm)		
	guisetum arvense		38	x	FAC	breast height (DBH).		
_	Galium palustre		32	x	OBL			
4.	Solidago rugosa				FAC	Sapling - Woody plants, excluding wo	ody vines, approx	imately
5.						20ft (6m) or more in height and less tha	n 3in (7.6cm) DBH	1.
6.								
7					_			
8						Shrub - Woody plants, excluding wood	dy vines, approxim	nately 3 to
9						20ft (1 to 6m) in height.		
10.						Howh All body or Control And And	and a facility of the	di e e e e e
11. 12.						Herb - All herbaceous (non-woody) pla vines, regardless of size. Includes woody		
12. <b>–</b>					al Cover	vines, less than approximately 3ft (1m)	in height.	
Woody	Vines (Plot size:	)		= 100	COVCI			
1.	` _	·						
2.						Woody vine - All woody vines, regar	dless of height.	
3.								
4						Hydrophytic		
5						Vegetation		
				= Tot	al <u>Cover</u>	Present?	YES	_
	46.1							
Remarks	: (If observed, list morpho	logical adaptations bel	low).			,		

2022-GE-104-Up

Project Site:	K42			City/County:	Georgia	/Franklin		Samp. Date: 5/1	17/2022
Applicant/Owner:	Velco			_ city/county	State:	Vermont	Sampling Point:	2022-GE	-104-Up
Investigator(s):	RS			Section	-	hip, Range:	Georgia		
Landform (hillslope, to	74444	Terrace		Local relief	(concave,	convex, none):	Convex	Slope (%):	0-3
Subregion (LRR or	MLRA):	LRR R	Lat	44.771755		Long:	-73.132578	Datum:	NAD 83
Soil Map Unit:	Scantic s							NWI Class:	Upland
			typical for this time of ye	ear?	Yes	(If no, e	xplain in Remarks.)		
Are Vegetation, Soi							_	cumstances?	Yes
Are Vegetation, Soi	l, or Hydro	logy naturally pi	roblematic? <u>No</u>				(If needed, e	xplain any answe	rs in Remarks.)
CLINANAADV OF	EINIDING	C Attach si	to man chauding car	mala naint l	locatio	as transo	ota important for	turos etc	
			te map showing sar	Tiple politi	T	is, transe	cts, important lea	atures, etc.	
Hydrophytic Vegeta Hydric Soil Present?		ntr	NO YES			Ic Thic	Sample Area Within	a Watland?	NO
Wetland Hydrology			YES			15 11115	Sample Area Within	a Wetland:	
Remarks:	riesent:		1123						
HYDROLOGY									
Wetland Hydrology							Secondary Indicator		vo required)
		of one is require	ed; check all that apply)			_	Surface Soil Cr		
Surface Water			Water-Stained Leav				Drainage Patte		
High Water Ta	. ,		Aquatic Fauna (B13)				Moss Trim Line		
Saturation (A3	•		Marl Deposits (B13)					ater Table (C2)	
Water Marks (			Hydrogen Sulfide Or     Oxidized Rhizosphere		t= (C2)		Crayfish Burro		
Sediment Dep Drift Deposits			Presence of Reduce		is (C3)			ble on Aerial (C9) essed Plants (D1)	
Algal Mat or C			Recent Iron Reducti		(C6)		Geomorphic P		
Iron Deposits			Thin Muck Surface (		(00)		Shallow Aquita		
Inundation Vis		al (B7)	Other (Explain in Re					ohic Relief (D4)	
Sparsely Vege	tated Conca	ive Surface (B8)					FAC-Neutral To		
Field Observations:									
Surface Water Pres	ent?		Depth (inches)	:					
Water Table Presen	it?		Depth (inches)	:		Wetland	d Hydrology Present?		YES
Saturation Present?			Depth (inches)					<u> </u>	
Remarks:  SOIL Profile Description:	(Describe	to the depth ne	eded to document the in	dicator or conf	irm the a	bsence of in	dicators.)		
Depth	Matrix	to the depth he		dox Features	iiiii tiie a	bsence of in	uicators.)		
	moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rer	narks
	4/1	<del>- 99</del>	10yr 3/4	- <del>1</del>	- rypc	pl	SANDY LOAM	<u></u>	IIdIN3
	5/3	70	2.5Y 5/6	30	<del>-c</del>	m	SANDY LOAM		
¹ Type: C=Concentration.	D=Depletion	RM=Reduced Matr	ix, MS=Masked Sand Grains.				² Location: PL=Pore Lining	. M=Matrix.	
Hydric Soil Indicato	*	·	<u>,                                      </u>				Indicators for Proble		Ic ³ .
	13.								
Histosol (A1)	()			elow Surface (S8)	) (LRR R,			10) (LRR K, L, MLRA	
Histic Epipedo			MLRA 149	•	D A41 D A 1	40D)		edox (A16) (LRR K,	
Black <u>Histic</u> (A Hydrogen Sulf				ırface (S9) (LRR F <y (f1)="" (i<="" mineral="" td=""><td></td><td><del>1</del>9B)</td><td></td><td>eat or Peat (S3) (LRI S9) (LRR K, L, M)</td><td>K K, L, K)</td></y>		<del>1</del> 9B)		eat or Peat (S3) (LRI S9) (LRR K, L, M)	K K, L, K)
Stratified Laye				ed Matrix (F2)	LINIX IX, LJ			w Surface (S8) (LRF	. K 1)
Depleted Belo		ace (A11)	X Depleted M					ace (S9) (LRR K, L)	( N, L)
Thick Dark Sur		dec (7.122)	Redox Dark					se Masses (F12) (LF	R K. L. R)
Sandy Mucky		)		rk Surface (F7)				dplain Soils (F19) (N	
Sandy Gleyed			Redox Depre					TA6) (MLRA 144A, 1	•
Sandy Redox (							Red Parent Ma		
Stripped Matr	ix (S6)		3lr	ndicators of hydr	ophytic ve	getation and	Very Shallow I	Dark Surface (TF12)	
Dark Surface (	S7) (LRR R,	VILRA 149B)	wet	land hydrology n			Other (Explain	in Remarks)	
Restrictive Layer (if	observed)	<del> </del>		dis	turbed or	problematic.	I		
Type:		•					Hydric	Soil Present?	YES
Depth (inches):									
Remarks:							•		

	Absolute	Dom.	Indicator	
Tree Stratum (Plot size: 30' RAD )	% Cover	Sp?	Status	Dominance Test Worksheet:
1.				# Dominants OBL, FACW, FAC: (A)
2.				`
3.				# Dominants across all strata: <b>2</b> (B)
4				# Dominants across an strata.
				2/2 :
5				% Dominants OBL, FACW, FAC:(A/B)
6				
7				Prevalence Index Worksheet:
		= Tota	Cover	Total % Cover of: Multiply By:
Sapling Stratum (Plot size: 15' RAD )				OBL x 1 =
1.				FACW 15 x 2 = 30
2.				FAC 6 x3 = 18
2				FACU 118 x 4 = 472
4				<u>UPL</u> <u>x</u> 5 =
				Sum: <b>139</b> (A) <b>520</b> (B)
<i>-</i>				(B)
6.				274
7				Prevalence Index = B/A =
		= Tota	Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15' RAD )				Dominance Test is > 50%
1				Prevalence Index is <= 3.0
2.				Problematic Hydrophytic Vegetation ¹ (explain)
3.				Rapid Test for <u>Hydrophytic</u> Vegetation
4				Morphological Adaptations
				<del>.                                   </del>
<u> </u>				¹ Indicators of <u>hydric</u> soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
		= Tota	Cover	
Herb Stratum (Plot size: <u>5' RAD</u> )				Tree - Woody plants, excluding woody vines, approximately 20ft
1. Solidago canadensis	65	X	FACU	(6m) or more in height and 3in (7.6cm) or larger in diameter at breast height (DBH).
2. Fragaria virginiana	35	Х	FACU	breast neight (bbri).
3. Solidago gigantea	15		FACW	
4. Trifolium pratense	15		FACU	Sapling - Woody plants, excluding woody vines, approximately
5. Solidago rugosa			FAC	20ft (6m) or more in height and less than 3in (7.6cm) DBH.
6. Anthoxanthum odoratum			FACU	
7. Ranunculus acris			FAC	
8.				Shrub Washington and discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount discount
				Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.
9				Zore (1 to only in neight.
10				
11				Herb - All herbaceous (non-woody) plants, including herbaceous
12				vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.
	139	= Tota	Cover	vines, less than approximately 3ft (1m) in neight.
Woody Vines (Plot size: )				
1.				
2.				Woody vine - All woody vines, regardless of height.
3.				
				The character of the set of
4				Hydrophytic
5				Vegetation
		= Tota	Cover	Present? NO
Remarks: (If observed, list morphological adaptations below).				

2022-GE-104-Wet

Project Site:	K42			C	ity/County:	Georgia	/Franklin		Samp. Date: 5/1	7/2022
Applicant/Owner:	Velco			— `	- Ly/County. —	State:	Vermont	Sampling Point:	2022-GE-	-104-Wet
Investigator(s):	RS	-			Section,		700000000000000000000000000000000000000	 Georgia		
Landform (hillslope, t		Terrace		_	Local relief (		-	Concave	Slope (%):	0-3
Subregion (LRR or	· MLRA):	LRR R	Lat	<u>t:</u> ,	44.77187		Long:	-73.132492	Datum:	NAD 83
Soil Map Unit:	Scantic si	it loam		_			-		NWI Class:	PEM
Are climatic/hydrol	logic condit	ons on the site	typical for this time of y	/ear	?	Yes	(If no, ex	kplain in Remarks.)		
Are Vegetation, So	il, or Hydrol	ogy significantl	ly disturbed? <u>No</u>				·	Normal Cir	cumstances?	Yes
Are Vegetation, So	il, or Hydrol	ogy naturally p	problematic? No					(If needed, e	xplain any answe	rs in Remarks.)
							•	_		
			ite map showing sa	mp	le point lo	၁catior	າs, transec	cts, important fea	atures, etc.	
Hydrophytic Vegeta		ıt?	YES			ĺ .				
Hydric Soil Present			YES		ļ	l .	Is This S	Sample Area Within	a Wetland?	YES
Wetland Hydrology Remarks:	/ Present?		YES			Щ_				
HYDROLOGY										
Wetland Hydrology								Secondary Indicator		vo required)
Primary Indicators	(minimum d	one is requir اد	ed; check all that apply)				_	Surface Soil Cr	acks (B6)	
Surface Wate	r (A1)		Water-Stained Lea	ves (	(B9)			Drainage Patte	erns (B10)	
High Water Ta	, ,		Aquatic Fauna (B13	•				Moss Trim Line		
Saturation (A:			Marl Deposits (B13	•					ater Table (C2)	
Water Marks			Hydrogen Sulfide C			(20)		Crayfish Burro		
Sediment Dep			X Oxidized Rhizosphe		-	s (C3)			ble on Aerial (C9)	
Drift Deposits Algal Mat or 0			Presence of Reduce Recent Iron Reduct			C6)		Geomorphic P	essed Plants (D1)	
Iron Deposits			Thin Muck Surface			20)		Shallow Aguita		
Inundation Vi		al (B7)	Other (Explain in Re					Microtopograp		
		ve Surface (B8)		-	,			FAC-Neutral Te		
Field Observations:										
Surface Water Pres			Depth (inches	.):		ľ				
Water Table Preser			Depth (inches			ľ	Wetland	Hydrology Present?		YES
Saturation Present	?		Depth (inches			!		· = ·		
Remarks: SOIL										
·	: (Describe t	o the depth ne	eded to document the ir			rm the a'	bsence of inc	dicators.)		
Depth	Matrix		<u>R</u>	<u>edo</u>	x Features					
	(moist)	%	Color (moist)		%	Type	Loc	Texture	Ren	narks
	R 3/1 R 6/1	100						MUCKY LOAM SANDY LOAM		
	Y 5/1	90	10YR 3/6		10			SANDY LOAM		
	. 5, 1		20111370			<u> </u>				
¹ Type: C=Concentration	, D=Depletion,	RM=Reduced Mate	rix, MS=Masked Sand Grains.					² Location: PL=Pore Lining	, M=Matrix.	
Hydric Soil Indicato	ors:							Indicators for Proble	ematic <u>Hydric</u> Soil	s ³ :
Histosol (A1)			Polyvalue E	Relov	w Surface (S8)	(I RR R.		2 cm Muck (A1	LO) (LRR K, L, MLRA	149B)
Histic Epipedo	on (A2)		MLRA 14			(Lini.,			edox (A16) (LRR K, I	
Black Histic (A					ace (S9) (LRR R,	, MLRA 1ª	19B)		eat or Peat (S3) (LRF	
Hydrogen Sul	fide (A4)		Loamy Muc	cky N	Mineral (F1) (LF	RR K, L)		Dark Surface (	S9) (LRR K, L, M)	
Stratified Laye			Loamy Gley						w Surface (S8) (LRR	K, L)
Depleted Beld		₃ce (A11)	X Depleted N						ace (S9) (LRR K, L)	
Thick Dark Su			Redox Dark						se Masses (F12) (LR	
Sandy Mucky					Surface (F7)				dplain Soils (F19) (N	
Sandy Gleyed			Redox Depr	ressi	ions (F8)				TA6) (MLRA 144A, 1	l45, 149B)
Sandy Redox			3,	. 10.	: Charatan			Red Parent Ma		
Stripped Mati		** D * 140D)			cators of hydro		-		Dark Surface (TF12)	
Dark Surface	(57) (LKK K, N	1LKA 149B)	we	tlan	nd hydrology m			Other (Explain	in Kemarks)	
Restrictive Layer (if	f observed):				disti	urbed or p	problematic.			
Type:								Hvdric	Soil Present?	YES
Depth (inches):										
Remarks:					-			<u> </u>		



	Absolute	Dom.	Indicator	
Tree Stratum (Plot size: 30' RAD )	% Cover	Sp?	Status	Dominance Test Worksheet:
				# Dominants OBL, FACW, FAC: <b>1</b> (A)
2.				(',
2				# Dominants across all strata: 1 (B)
3	- ———			# Dominants across all strata: 1 (B)
5				% Dominants OBL, FACW, FAC:(A/B)
6				
7.				Prevalence Index Worksheet:
		= Total	Cover	Total % Cover of: Multiply By:
Sapling Stratum (Plot size: 15' RAD )				OBL 83 x 1 = 83
				FACW 18 x 2 = 36
2				
2				FAC 18 x 3 = 54
3				FACU 1 x 4 = 4
4				<u>UPL</u> <u>x</u> 5 =
5				Sum: <b>120</b> (A) <b>177</b> (B)
6.				
7.				Prevalence Index = B/A = 1.48
··	- ———			Trevalence index 5,77
		<b>.</b>		
		= Tota	Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15' RAD )				X Dominance Test is > 50%
1				X Prevalence Index is <= 3.0
2.				Problematic Hydrophytic Vegetation ¹ (explain)
3.				Rapid Test for <u>Hydrophytic</u> Vegetation
4				Morphological Adaptations
-				iviorphological/idaptations
5				¹ Indicators of <u>hydric</u> soil and wetland hydrology must be present,
6				unless disturbed or problematic.
7				Definitions of Vegetation Strata:
		= Tota	Cover	
Herb Stratum (Plot size: 5' RAD )				Tree - Woody plants, excluding woody vines, approximately 20ft
1. Iris versicolor	65	х	OBL	(6m) or more in height and 3in (7.6cm) or larger in diameter at
2. Juncus effusus	15		OBL	breast height (DBH).
3. Ranunculus acris	15		FAC	
4. Symphyotrichum lanceolatum	15		FACW	Sapling - Woody plants, excluding woody vines, approximately
5. Onoclea sensibilis	3		FACW	20ft (6m) or more in height and less than 3in (7.6cm) DBH.
6. Scutellaria lateriflora	3		OBL	
7. Viola labradorica	3		FAC	
8. Oxalis stricta	1		FACU	Shrub - Woody plants, excluding woody vines, approximately 3 to
9.				20ft (1 to 6m) in height.
10.	. ———			
11.				Herb - All herbaceous (non-woody) plants, including herbaceous
12				vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3ft (1m) in height.
	120	= Tota	Cover	villes, less than approximately sit (1111) in neight.
Woody Vines (Plot size: )				
1.				
2.				Woody vine - All woody vines, regardless of height.
				Woody vine All woody vines, regardless of neight.
3				
4				Hydrophytic
5				Vegetation
		= Tota	Cover	Present? YES
Remarks: (If observed, list morphological adaptations below).				



Project Site:	K42			City/County:	St <u>Alba</u> ı	s /Franklin		Samp. Date: 5/1	18/2022
Applicant/Owner:	Velco				State:	Vermont	Sampling Point:	2022-5	A-4-Up
Investigator(s):	MCJ			Section	່ງ, Townsl	nip, Range:			•
Landform (hillslope, to	errace, etc.):	Terrace		Local relief	f (concave, o	convex, none):	Convex	Slope (%):	15-60
Subregion (LRR or	MLRA):	LRR R	<u>Lat</u>	44.826097		Long:	-73.114401	Datum:	NAD 83
Soil Map Unit:		on Rock outcrop						NWI Class:	Upland
		•	pical for this time of ye	ear?	Yes	(If no, ex	kplain in Remarks.)		
Are Vegetation, Soi								cumstances?	Yes
Are Vegetation, Soi	l, or Hydro	ogy naturally pro	blematic? <u>No</u>				_ (If needed, e	xplain any answe	rs in Remarks.)
CLINANA A DV OF	FINIDINIC	·C A44					:		
			e map showing sar	mpie point	location	is, transec	cts, important rea	atures, etc.	
Hydrophytic Vegeta		^{nt?} –	NO			1. This 6		- 144-4112	NO
Hydric Soil Present?		_	NO			is inis	Sample Area Within	a Wetland?	NO
Wetland Hydrology Remarks:	Present?		NO						
HYDROLOGY									
Wetland Hydrology			-ll 11 414 1- A				Secondary Indicator		vo required)
		one is required اد	; check all that apply)	(DC)		-	Surface Soil Cr		
Surface Water		_	Water-Stained Leav				Drainage Patte		
High Water Ta	, ,	_	Aquatic Fauna (B13)				Moss Trim Line		
Saturation (A3 Water Marks (		_	Marl Deposits (B13) Hydrogen Sulfide O				Crayfish Burro	ater Table (C2)	
Sediment Dep	. ,	_	Oxidized Rhizosphe		nts (C3)			ble on Aerial (C9)	
Drift Deposits	, ,	_	Presence of Reduce		) (C3)			essed Plants (D1)	
Algal Mat or C		_	Recent Iron Reducti		(C6)		Geomorphic P		
Iron Deposits		_	Thin Muck Surface (				Shallow Aquita		
Inundation Vis	ible on Aeri	al (B7)	Other (Explain in Re	marks)			Microtopogran	ohic Relief (D4)	
Sparsely Vege	tated Conca	ve Surface (B8)					FAC-Neutral Te	est (D5)	
Field Observations:									
Surface Water Pres	ent?		Depth (inches)	:					
Water Table Presen	it?		Depth (inches)	:		Wetland	Hydrology Present?		NO
Saturation Present?	)		Depth (inches)	:	•'			·	
Remarks:									
Profile Description: Depth	(Describe 1 Matrix	o the depth need	led to document the in Re	idicator or conf edox Features	firm the a	bsence of in	dicators.)		
	moist)	<u></u> %	Color (moist)	%	Type ¹	Loc ²	Texture	Ren	narks
	3/4	100			.,,,,,		LOAM	·····························	
	4/4	95	10yr 4/6		С		LOAM		
¹Type: C=Concentration	D=Depletion	RM=Reduced Matrix	MS=Masked Sand Grains.				² Location: PL=Pore Lining	M=Matrix	
Hydric Soil Indicator		Title Reduced Midelik,	Washea sana Grans.				Indicators for Proble	<i>"</i>	ls ³ .
	13.								
Histosol (A1)	(**)			elow Surface (S8	3) (LRR R,			10) (LRR K, L, MLRA	
Histic Epipedo			MLRA 149	•	D MIDA 1	100)		edox (A16) (LRR K,	
Black <u>Histic</u> (A Hydrogen Sulf				urface (S9) (LRR I ky Mineral (F1) (		198)		eat or Peat (S3) (LRI S9) (LRR K, L, M)	K K, L, K)
Stratified Laye				ed Matrix (F2)	LINIX IX, L)			w Surface (S8) (LRF	1 K 1)
Depleted Belo		ace (A11)	Depleted M					ace (S9) (LRR K, L)	, =,
Thick Dark Sur		200 (7.22)		Surface (F6)				se Masses (F12) (LF	R K. L. R)
Sandy Mucky				ark Surface (F7)				dplain Soils (F19) (N	
Sandy Gleyed			Redox Depr					TA6) (MLRA 144A, 1	•
Sandy Redox (							Red Parent Ma		
Stripped Matr	ix (S6)		3 1	ndicators of <u>hydr</u>	rophytic ve	getation and	Very Shallow I	Dark Surface (TF12)	
Dark Surface (	S7) (LRR R, N	ИLRA 149B)	wet	tland hydrology r dis		esent, unless problematic.	Other (Explain	in Remarks)	
Restrictive Layer (if	observed):			uis	star Sea OI	p. obiciliatic.			
	rock						Hydric	Soil Present?	NO
Depth (inches):	70000000								
Remarks:								<del></del>	

								*****	, 0		
					Absolute	Dom.	Indicator	1			
Tree S	Stratum	(Plot size:	30' RAD	)	% Cover	Sp?	Status	Dominance Test W	orksheet:		
1.								# Dominants OBL,	FACW, FAC:		(A)
2.											
3.								# Dominants acros	s all strata:	5	(B)
4.											
5.								% Dominants OBL,	FACW, FAC:		(A/B)
6.											
7.								Prevalence Index V	Vorksheet:		
						= Tota	Cover	Total % Cover of:	-	Multiply By	<u>:</u>
•	•	(Plot size:	15' RAD	)				OBL	X 1 =		_
1.								FACW 10	- x 2 =	20	_
2.								FAC 15	x 3 =	45	_
3.								FACU 156 UPL 8	- x4=	624 40	_
4. 5.									x 5 =	729	— _{/B\}
5. 6.								Sum:189	_(A)	125	— ^(B)
7.					- ——			Prevalence Index	= B/A =	3.86	
/.					- ——			Frevalence maca	- 6/7/ -	3.00	_
						= Tota	l Cover	Hydrophytic Veget	ation Indicato	rs·	
Shrub	Stratum	(Plot size:	15' RAD	)			· ************************************		Test is > 50%		
		s virginiana		<b>-</b> ′	38	Х	FACU		Index is <= 3.0		
	Acer sace				5		FACU		: Hydrophytic		explain)
		thunbergii			5		FACU		or Hydrophyti	_	•
	Frangula				5		FAC	I — ·	cal Adaptation		
5.		cidentalis					FACW	¹ Indicators of <u>hydric</u> soi	•		rocant
6.	Cornus se	ericea			5		FACW	unless disturbed or pro		TOlogy Hust be a	lesent,
7.								Definitions of Vege	tation Strata:		
					63	= Tota	Cover				
	Stratum	(Plot size:	5' RAD	)				Tree - Woody plants, 6			
		pratense			38	X	FACU	(6m) or more in height breast height (DBH).	and 3in (7.6cm) o	larger in diamet	er at
	Arctium				15	X	FACU				
		morrowii			15	x	FACU				
	Galium n				15	<u> </u>	FACU	Sapling - Woody plan 20ft (6m) or more in he			
		virginiana			- <del>10</del>		FACU	Zort (om) or more in he	igiit ailu less tilali	3111 (7.0cm) DBH	•
6. 7.		canadensis			10		FACU FAC				
7. 8.	Solidago	canadense					UPL	Shrub Waadu plants	oveluding weed		nataly 2 to
	Daucus c						UPL	Shrub - Woody plants 20ft (1 to 6m) in height		viries, approxiii	ately 5 to
		trichum laeve			- <del></del> 5		FACU				
11.	Simping	tticiidiii ideve			- —		<u> </u>	Herb - All herbaceous	(non-woody) plar	nts including her	haceous
12.								vines, regardless of size			
					126	= Tota	Cover	vines, less than approxi	mately 3ft (1m) ir	height.	
Wood	ly Vines	(Plot size:		)							
1.		_									
2.								Woody vine - All wo	ody vines, regard	less of height.	
3.											
4.								Hydrophytic			
5.								Vegetation			
						= Tota	Cover	Present?		NO	_
Remark	s: (If obser	ved, list morpho	ological adaptati	ons below).							

2022-SA-4-wet

Project Site:	K42			c	City/County:	St <u>Alban</u>	s /Franklin		Samp. Date: 5/1	8/2022
Applicant/Owner:	Velco			_`		State:	Vermont	Sampling Point:	2022-SA	\-4-wet
Investigator(s):	MCJ			_	Section,	Townsh	700000000000000000000000000000000000000			
Landform (hillslope, te	errace, etc.):	Terrace		_	Local relief (	(concave, c	onvex, none):	Concave	Slope (%):	15-60
Subregion (LRR or		LRR R	La	<u>ե։</u> _	44.826207		Long:	-73.114830	Datum:	NAD 83
Soil Map Unit:		on Rock outcrop			2	V	/16		NWI Class:	PEM
Are Vegetation, Soil			typical for this time of y	/ear	-?	Yes	(If no, ex	(plain in Remarks.)	cumstances?	Vac
Are Vegetation, Soil			70000	—				_	kplain any answei	Yes
Are vegetation, son	i, or riyaror	ogy naturally pr	obicinatic: 140						cplain any answer	3 III Nemarks.,
SUMMARY OF I	FINDING	S - Attach sit	te map showing sa	ımı	ple point k	ocation	ıs, transed	cts, important fea	tures, etc.	
Hydrophytic Vegeta	tion Preser	nt?	YES		·			· · ·	<u> </u>	
Hydric Soil Present?	)	-	YES				Is This S	Sample Area Within	a Wetland?	YES
Wetland Hydrology	Present?		YES							
Remarks:										
				_						
HYDROLOGY										
Wetland Hydrology								Secondary Indicator		o required)
		one is require	d; check all that apply)	_				Surface Soil Cra		
X Surface Water		-	Water-Stained Lea		(B9)			Drainage Patte		
High Water Ta Saturation (A3		-	Aquatic Fauna (B13 Marl Deposits (B13					Moss Trim Line Dry-Season Wa		
Water Marks (		-	Hydrogen Sulfide (		r (C1)			Crayfish Burrov		
Sediment Dep		-	Oxidized Rhizosphe			s (C3)			ble on Aerial (C9)	
Drift Deposits		-	Presence of Reduc		-	- (/			essed Plants (D1)	
Algal Mat or C		-	Recent Iron Reduc			C6)		Geomorphic Po		
Iron Deposits (	(B5)		Thin Muck Surface	: (C7	')			Shallow Aquita	rd (D3)	
Inundation Vis	ible on Aeria	ıl (B7)	Other (Explain in R	ema	arks)			Microtopograp	hic Relief (D4)	
Sparsely Veget	tated Conca	ve Surface (B8)						FAC-Neutral Te	est (D5)	
Field Observations:										
Surface Water Prese	ent?	X	Depth (inches	s):	surface					
Water Table Presen			Depth (inches				Wetland	l Hydrology Present?		YES
Saturation Present?			Depth (inches	_						
	•		oring well, aerial photo		•	•				
0.39" of Rain in th	ie 5 days p	orior; PDSI 0.8	5" for the week endir	ıg II	n 5/20/22 ne	ear norr	nai(NOAA)			
Remarks:										
SOIL										
	(Describe t	o the depth nea	eded to document the i	ndi	cator or confi	rm the al	bsence of inc	dicators.)		
Depth	Matrix				ox Features					
(in) Color (	moist)	<u></u> %	Color (moist)		%	Type ¹	Loc ²	Texture	Ren	narks
0-6 10YR		95	10YR 3/6			<u> </u>		SILT LOAM		
6-16 10yr		85	10yr 5/6	_	15	С	m	CLAY LOAM		
				_ ;						
				<u> </u>						
				<u> </u>	<del></del> .					
¹Type: C=Concentration.	D=Depletion.	RM=Reduced Matri	x, MS=Masked Sand Grains.					² Location: PL=Pore Lining,	. M=Matrix.	
Hydric Soil Indicator				—						_3
myaric son maicator	15:							Indicators for Proble	ematic <u>Hydric</u> Soii	S:
Histosol (A1)					w Surface (S8)	(LRR R,			0) (LRR K, L, MLRA	
Histic Epipedo			MLRA 14						edox (A16) (LRR K, I	
Black Histic (A	-				ace (S9) (LRR R,		·9B)		eat or Peat (S3) (LRF	( K, L, R)
Hydrogen Sulfi Stratified Laye					Mineral (F1) (LF Matrix (F2)	KK K, L)			59) (LRR K, L, M) w Surface (S8) (LRR	K I)
Depleted Belo		ace (Δ11)	Depleted N						w 3011ace (38) (LKK ace (S9) (LRR K, L)	Ν, L)
Thick Dark Sur		ice (A11)	x Redox Darl						se Masses (F12) (LR	R.K. L. R)
Sandy Mucky I	, ,				Surface (F7)				dplain Soils (F19) (N	
Sandy Gleyed			Redox Dep						ГА6) (MLRA 144A, 1	
Sandy Redox (								Red Parent Ma		
Stripped Matri	ix (S6)		3	Indi	icators of <u>hydro</u>	phytic ve	getation and	Very Shallow D	ark Surface (TF12)	
Dark Surface (	S7) (LRR R, N	1LRA 149B)	W€	etlar	nd hydrology m	ust be pre	esent, unless	Other (Explain	in Remarks)	
					dist	urbed or	problematic.			
Restrictive Layer (if	observed):									
Type:								Hydric !	Soil Present?	YES
Depth (inches): Remarks:										

	Absolute	Dom.	Indicator		
Tree Stratum (Plot size: 30' RAD )	% Cover	Sp?	Status	Dominance Test Worksheet:	
1.				# Dominants OBL, FACW, FAC:	<b>5</b> (A)
2.					
3.				# Dominants across all strata:	<b>5</b> (B)
4.					(-,
				0/ Daminanta ORI FACIAL FAC: 10	000/ (A/D)
5				% Dominants OBL, FACW, FAC: 10	<b>00%</b> (A/B)
6					
7				Prevalence Index Worksheet:	
		= Tota	Cover	Total % Cover of: Multi	iply By:
Sapling Stratum (Plot size: 15' RAD )				OBL x 1 =	
1. Thuia occidentalis	15	х	FACW		256
2. Betula populifolia	- <del>- 3</del>		FAC		54
3. <u>Salix</u> bebbiana	3		FACW		12
4				<u>UPLx</u> 5 =	
5				Sum: <b>149</b> (A) <b>3</b>	<b>322</b> (B)
6.					
7.				Prevalence Index = B/A = 2	.16
	21	<b>.</b>		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	21	= Tota	Cover	Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size: 15' RAD )				X Dominance Test is > 50%	
1. Cornus amomum	15	Х	FACW	X Prevalence Index is <= 3.0	
2. Cornus racemosa			FAC	Problematic Hydrophytic Vegetat	tion ¹ (explain)
3. Lonicera morrowii			FACU	Rapid Test for Hydrophytic Veget	
4					dion
4.				Morphological Adaptations	
5				¹ Indicators of <u>hydric</u> soil and wetland hydrology m	ust be present,
6				unless disturbed or problematic.	
7.				Definitions of Vegetation Strata:	
		= Tota	Cover		
Herb Stratum (Plot size: 5' RAD )				Tree - Woody plants, excluding woody vines, app	roximately 20ft
Valerian officinalis	32	Х	FACW	(6m) or more in height and 3in (7.6cm) or larger in	
				breast height (DBH).	
2. Equisetum pratense	32	x	FACW		
3. <u>Thelypteris</u> palustris	15		FACW		
4. Onoclea sensibilis	15		FACW	Sapling - Woody plants, excluding woody vines,	approximately
5. Phalaris arundinacea			FACW	20ft (6m) or more in height and less than 3in (7.6c	:m) DBH.
6.					
7.					
				Shrub - Woody plants, excluding woody vines, as 20ft (1 to 6m) in height.	pproximately 3 to
8.				20Tt (1 to 6m) in neight.	
8. 9.				l ' ' "	
9				Herb - All herbaceous (non-woody) plants, includ	ling herbaceous
9. 10. 11.		<u> </u>		Herb - All herbaceous (non-woody) plants, incluc vines, regardless of size. Includes woody plants, ex	
9			Cover		
9	95	= Tota	Cover	vines, regardless of size. Includes woody plants, ex	
9	95	= Tota	Cover	vines, regardless of size. Includes woody plants, ex	
9	95	= Tota	Cover	vines, regardless of size. Includes woody plants, ex	
9	95	= Tota	Cover	vines, regardless of size. Includes woody plants, ex	xcept woody
9	95	= Tota	Cover	vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.	xcept woody
9.	95	= Tota	Cover	vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he	xcept woody
9.	95	= Tota	Cover	vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic	xcept woody
9.	95			vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody
9.	95	= Tota		vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody
9.	95			vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody
9.	95			vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody
9.	95			vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody
9.	95			vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody
9.	95			vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody
9.	95			vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody
9.	95			vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody
9.	95			vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody
9.	95			vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody
9.	95			vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody
9.	95			vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody
9.	95			vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody
9.	95			vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he  Hydrophytic  Vegetation	xcept woody

2022-SA-8-Up

Project Site:	K42			Citv/Countv:	St Alba	ns /Franklin		Samp. Date: 5/1	18/2022
Applicant/Owner:	Velco			,,	State:	Vermont	Sampling Point:		A-8-Up
Investigator(s):	MCJ			Section	n, Towns	hip, Range:	St Albans		
Landform (hillslope, to	errace, etc.):	Terrace		Local relie	f (concave,	convex, none):	Convex	Slope (%):	0-3
Subregion (LRR or	MLRA):	LRR R	<u>La</u> t	t: <b>44.845828</b>		Long:	-73.113099	Datum:	NAD 83
Soil Map Unit:	Kingsbury							NWI Class:	Upland
			typical for this time of y	ear?	Yes	- (If no, e	(plain in Remarks.)		
Are Vegetation, Soil			·					rcumstances?	Yes
Are Vegetation, Soil	, or Hydrol	ogy naturally p	roblematic? <u>No</u>				– (If needed, e	xplain any answe	rs in Remarks.)
CLINANA A DV OF I	CINIDINIC	C A44l:			1				
			te map showing sa	mpie point	iocatio	ns, transec	cts, important rea	atures, etc.	
Hydrophytic Vegeta		t?	NO					M .I ID	NO
Hydric Soil Present?			NO			Is This S	Sample Area Within	a Wetland?	NO
Wetland Hydrology Remarks:	Present?		NO						
HYDROLOGY									. 1)
Wetland Hydrology		of analis raquir	adushask all that apply)				Secondary Indicator		vo required)
· · · · · ·		T one is require	ed; check all that apply)	(BO)		_	Surface Soil Cr		
Surface Water			Water-Stained Lear				Drainage Patte		
High Water Ta Saturation (A3			——— Aquatic Fauna (B13 Marl Deposits (B13				Moss Trim Lin	ater Table (C2)	
Water Marks (	-		Hydrogen Sulfide C	•			Crayfish Burro	, ,	
Sediment Dep			Oxidized Rhizosphe		ots (C3)			ible on Aerial (C9)	
Drift Deposits			Presence of Reduce		010 (00)			essed Plants (D1)	
Algal Mat or C			Recent Iron Reduct		(C6)		Geomorphic P		
Iron Deposits (	(B5)		Thin Muck Surface	(C7)			Shallow Aquit	ard (D3)	
Inundation Vis	ible on Aeria	l (B7)	Other (Explain in Re	emarks)			Microtopogra	ohic Relief (D4)	
Sparsely Veget	tated Concav	e Surface (B8)					FAC-Neutral T	est (D5)	
Field Observations:									
Surface Water Prese	ent?		Depth (inches	·	_				
Water Table Presen			Depth (inches	<i>'</i>	_	Wetland	l Hydrology Present?		NO
Saturation Present?			Depth (inches toring well, aerial photo	·					
Remarks:									
SOIL									
		o the depth ne	eded to document the ir		firm the a	absence of inc	dicators.)		
Depth	Matrix			edox Features	_ 1	. 2			
(in) Color (	- 1-		Color (moist)	%	Type ¹	Loc	Texture	Rer	narks
0-15 15-18 10yr		90	10yr 5/6		<del></del>	<u> </u>	SANDY LOAM	5% organic o	onsentration
	,-								
		. —							
1							2		
*Type: C=Concentration,	D=Depletion,	RM=Reduced Matr	ix, MS=Masked Sand Grains.				² Location: PL=Pore Lining	g, M=Matrix.	
Hydric Soil Indicator	rs:						Indicators for Probl	ematic <u>Hydric</u> Soi	ls ³ :
Histosol (A1)			Polyvalue B	Below Surface (S8	3) (LRR R.		2 cm Muck (A:	10) (LRR K, L, MLRA	149B)
Histic Epipedo	n (A2)		MLRA 14		, (			Redox (A16) (LRR K,	· ·
Black Histic (A:			Thin Dark S	Surface (S9) (LRR	R, MLRA 1	49B)	5 cm Mucky P	eat or Peat (S3) (LRI	R K, L, R)
Hydrogen Sulfi	ide (A4)		Loamy Muc	cky Mineral (F1)	(LRR K, L)		Dark Surface (	S9) (LRR K, L, M)	
Stratified Laye	rs (A5)		Loamy Gley	ved Matrix (F2)			Polyvalue Belo	ow Surface (S8) (LRF	t K, L)
Depleted Belo	w Dark Surfa	ce (A11)	Depleted N	1atrix (F3)			Thin Dark Surf	ace (S9) (LRR K, L)	
Thick Dark Sur	face (A12)		Redox Dark	Surface (F6)			Iron-Mangane	se Masses (F12) (LF	R K, L, R)
Sandy Mucky I				ark Surface (F7)				odplain Soils (F19) (N	
Sandy Gleyed			Redox Depr	ressions (F8)				TA6) (MLRA 144A, 1	145, 149B)
Sandy Redox (			3				Red Parent Ma		
Stripped Matri				Indicators of hyd		-		Dark Surface (TF12)	
Dark Surface (	57) (LRR R, N	.LKA 149B)	we	tland hydrology			Other (Explain	ın Kemarks)	
Restrictive Layer (if	ohserved).			di	sturbed or	problematic.			
Type:	COSCIVEU).						Hvdric	Soil Present?	NO
Depth (inches):								_	
Remarks:									

		Absolute	Dom.	Indicator	1		
Tree S	Stratum (Plot size: <b>30' RAD</b> )	% Cover	Sp?	Status	Dominance Test Worksheet:		
1.	·			*******	# Dominants OBL, FACW, FAC:	2	(A)
					# Dominants Obt, TACW, TAC.		— ^(^)
2.						_	
3.					# Dominants across all strata:	4	— ^(В)
4.							
5.					% Dominants OBL, FACW, FAC:	50%	(A/B)
6.							
7.					Prevalence Index Worksheet:		
			= Tota	l Cover	Total % Cover of:	Multiply By	<i>/</i> :
Sanlir	g Stratum (Plot size: 15' RAD )				OBL x 1 =		_
•						30	_
1.							_
2.					FAC 41 x 3 =	123	_
3.					FACU x 4 =	120	_
4.					UPL <u>3</u> x 5 =	15	
5.					Sum: <b>89</b> (A)	288	(B)
6.							
7.					Prevalence Index = B/A =	3.24	
					_,,,		_
			= Tota	l Cover	Hydrophytic Vegetation Indicator	rc.	
Ch1	Stratum (Plot size: 15' RAD )		- 1018	· SOXEI	-	13.	
	·				Dominance Test is > 50%		
1.					Prevalence Index is <= 3.0	_	
2.					Problematic Hydrophytic	Vegetation* (	explain)
3.					Rapid Test for <u>Hydrophyti</u>	<u>c</u> Vegetation	
4.					Morphological Adaptation	ıs	
5.					Indicators of hydric soil and watland hyd	ralagy must be r	rocont
6.					¹ Indicators of <u>hydric</u> soil and wetland hyd unless disturbed or problematic.	rology must be p	resent,
7.					Definitions of Vegetation Strata:		
/.			= Tota	Cover	benintions of vegetation strata.		
	C (DI . : ELDAD )		- 10ta	Cover	T		
	Stratum (Plot size: 5' RAD )				Tree - Woody plants, excluding woody v (6m) or more in height and 3in (7.6cm) or		
	Agrostis capillaris	38	<u>X</u> _	<u>FAC</u>	breast height (DBH).	larger in diame	ter at
2.	Galium mollugo	15	X	FACU			
3.	Phalaris arundinacea	15	X	FACW			
4.	Solidago canadensis	15		FACU	Sapling - Woody plants, excluding wood	dy vines, approx	imately
5.	Equisetum arvense	3		FAC	20ft (6m) or more in height and less than	3in (7.6cm) DBH	۱.
6.	Vicia cracca L.	3		UPL			
7.		· <del></del>					
					Should be a second of		
8.					Shrub - Woody plants, excluding woody 20ft (1 to 6m) in height.	vines, approxin	nately 3 to
9.					Zort (1 to onl) in neight.		
10.							
11.					Herb - All herbaceous (non-woody) plan		
12.					vines, regardless of size. Includes woody		oody
		89	= Tota	Cover	vines, less than approximately 3ft (1m) in	height.	
Wood	ly Vines (Plot size: )						
1.	, vines (1.100 size)						
					Woody vine - All woody vines, regard		
2.					Woody ville - All woody vines, regardi	less of neight.	
3.							
4.					Hydrophytic		
5.					Vegetation		
			= Tota	l Cover	Present?	NO	
							_
Remark	s: (If observed, list morphological adaptations below).						

2022-SA-8-wet

Project Site:	K42			Citv	/County:	St <u>Albar</u>	ıs /Franklin		Samp. Date: 5/1	18/2022
Applicant/Owner:	Velco					State:	Vermont	Sampling Point:		A-8-wet
Investigator(s):	MCJ						nip, Range:	St Albans		
Landform (hillslope, to		Terrace		_		(concave, o	onvex, none):	Concave	Slope (%):	0-3
Subregion (LRR or		LRR R	Lat	። <u>44</u>	.845766		Long:	-73.113031	Datum:	NAD 83
Soil Map Unit:	Kingsbury					.,	/16		NWI Class:	PEM
			typical for this time of y	ear?		Yes	. (If no, e	xplain in Remarks.)		
Are Vegetation, Soi								_	cumstances?	Yes
Are Vegetation, Soi	i, or Hydron	ogy naturany pi	roblematic? <u>No</u>					(II fleeded, e	xplain any answe	rs in Remarks.)
SLIMMARY OF	EINDING	S - Attach si	te map showing sa	mnle	a noint l	ocation	nc tranco	cts important for	aturas atc	
Hydrophytic Vegeta			YES	Пріс	e point i	I	is, transc	cts, important rea	itures, etc.	
Hydric Soil Present?		10:	YES				Is This	Sample Area Within	a Wetland?	YES
Wetland Hydrology			YES				13 11113	Sample Area Within		123
Remarks:	riesent:		163	—		<u> </u>				
HYDROLOGY										
Wetland Hydrology								Secondary Indicator		vo required)
		t one is require	ed; check all that apply)		-,		•	Surface Soil Cr	` '	
Surface Water			X Water-Stained Leav		∍)			Drainage Patte		
High Water Ta			Aquatic Fauna (B13					Moss Trim Line	, ,	
X Saturation (A3			Marl Deposits (B13		.1)			Dry-Season Wa		
Water Marks ( Sediment Dep			Hydrogen Sulfide O		-	to (C2)		Crayfish Burro	ws (C8) ble on Aerial (C9)	
Drift Deposits	٠,,		Oxidized Rhizosphe Presence of Reduce			is (C3)			essed Plants (D1)	
Algal Mat or C			Recent Iron Reduct			(C6)		Geomorphic P		
Iron Deposits			Thin Muck Surface		Timed Sons (	(00)		Shallow Aquita		
Inundation Vis		il (B7)	Other (Explain in Re		s)			Microtopogram		
Sparsely Vege					,			FAC-Neutral To		
Field Observations:										
Surface Water Pres	ent?		Depth (inches)	):						
Water Table Presen	it?		Depth (inches)	_			Wetland	d Hydrology Present?		YES
Saturation Present?	)	x	Depth (inches	): <del>_</del> 5	Surface					
Remarks: SOIL										
Profile Description:	(Describe t	o the depth ne	eded to document the ir	ndicat	or or confi	rm the a	bsence of in	dicators.)		
Depth	Matrix		Re	<u>edox</u> f	Features					
(in) Color (	(moist)	%	Color (moist)		%	Type ¹	<u>Loc</u> ²	Texture	Rer	narks
0-10 10YY		98	10YR 5/2		2	D	M	CLAY LOAM		
10-15 10YF	R 5/1	85	10YR 4/6		15		M	CLAY		
					-					
¹ Type: C=Concentration,	D=Depletion,	RM=Reduced Matr	ix, MS=Masked Sand Grains.					² Location: PL=Pore Lining	, M=Matrix.	
Hydric Soil Indicato	rs:							Indicators for Proble	ematic Hydric Soi	ls ³ :
					c ( (co)	(1.00.0			***************************************	
Histosol (A1)	n (A2)		MLRA 14		Surface (S8)	(LKK K,			LO) (LRR K, L, MLRA Ledox (A16) (LRR K,	
Histic Epipedo Black Histic (A					e (S9) (LRR R	MIDA 1/	IQD)		eat or Peat (S3) (LRI	
Hydrogen Sulf	-				neral (F1) (L		130)		S9) (LRR K, L, M)	( K, L, K)
Stratified Laye			Loamy Gley						w Surface (S8) (LRF	k K, L)
Depleted Belo		ice (A11)	Depleted M						ace (S9) (LRR K, L)	,
Thick Dark Sur		• •	X Redox Dark						se Masses (F12) (LF	R K, L, R)
Sandy Mucky			Depleted D						dplain Soils (F19) (N	
Sandy Gleyed	Matrix (S4)		Redox Depr	essior	ns (F8)			Mesic Spodic (	TA6) (MLRA 144A, 1	145, 149B)
Sandy <u>Redox</u> (			<del></del>					Red Parent Ma	aterial (F21)	
Stripped Matr			³ l	ndicat	ors of <u>hydro</u>	ophytic ve	getation and		Oark Surface (TF12)	
Dark Surface (	S7) (LRR R, N	ILRA 149B)	we	tland h			esent, unless	Other (Explain	in Remarks)	
Postrictive Laves /:f	obsor and				dist	turbed or	problematic.	1		
Restrictive Layer (if Type:	onservea):							المرامية الم	Soil Present?	VEC
Depth (inches):								Invalie		YES
Remarks:								!		

	Absolute	Dom.	Indicator	
Tree Stratum (Plot size:30' RAD)	% Cover	Sp?	Status	Dominance Test Worksheet:
1.				# Dominants OBL, FACW, FAC: (A)
2				
3				# Dominants across all strata: (B)
4				
5				% Dominants OBL, FACW, FAC: 100% (A/B)
6	- ———			
7	- ——			Prevalence Index Worksheet:
4-1-0-0		. = Total	Cover	Total % Cover of: Multiply By:
Sapling Stratum (Plot size:15' RAD)				OBL x 1 =
1.	- ——			FACW 98 x 2 = 196
2.	- ——			FAC 3 x3 = 9
3.				FACU x 4 =
4				UPL X5 =
5.				Sum:(A)(B)
6	- ——			
7	- ———			Prevalence Index = B/A =
		= Total	Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15' RAD )		- 10131	COXE	X Dominance Test is > 50%
				X Prevalence Index is <= 3.0
				Problematic Hydrophytic Vegetation (explain)
2				Rapid Test for Hydrophytic Vegetation
4.				Morphological Adaptations
5.		. ——		
6.		. ——		¹ Indicators of <u>hydric</u> soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
		= Total	Cover	_
Herb Stratum (Plot size: 5' RAD)				Tree - Woody plants, excluding woody vines, approximately 20ft
1. Phalaris arundinacea	95	x	FACW	(6m) or more in height and 3in (7.6cm) or larger in diameter at
2. Solidago gigantea	3		FACW	breast height (DBH).
3. Equisetum arvense	3		FAC	
				Sapling - Woody plants, excluding woody vines, approximately
5				20ft (6m) or more in height and less than 3in (7.6cm) DBH.
6				
7.	- ——			
8.				Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.
· · · · · ·				20ft (1 to 6m) in neight.
10.	- ——			l
11.	- ——			Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody
12		Total		vines, less than approximately 3ft (1m) in height.
Weekly Charles (District)	101	= Total	Cover	
Woody Vines (Plot size:)  1.				
2.	. ——	. ——		Woody vine - All woody vines, regardless of height.
3.	. ———			WOOdy vine - All woody vines, regardless of neight.
4.	. ———	. ——		Hydrophytic
5.	. ———	. ——		Vegetation
··	- —	= Total	Cover	Present? YES
			COVE	
Remarks: (If observed, list morphological adaptations below).				
(11 0200, 100, 110, p.10,				



Project Site:	K42			City/County:	St Albar	s /Franklin		Samp. Date: 5/3	19/2022
Applicant/Owner:	Velco			_ City/County.	State:	Vermont	Sampling Point:		A-17-Up
Investigator(s):	BG			Section		nip, Range:	St Albans		
Landform (hillslope, te	errace, etc.):	Terrace		Local relief	f (concave, d	convex, none):	Convex	Slope (%):	3-8
Subregion (LRR or		LRR R	Lat	44.853001		Long:	-73.102978	Datum:	NAD 83
Soil Map Unit:		Loamy fine san		7	Vaa	/16	mlain in Damania \	NWI Class:	Upalnd
Are Vegetation, Soil			typical for this time of y	earr	Yes	- (II no, e	kplain in Remarks.) Normal Cir	cumstances?	Yes
Are Vegetation, Soil							_	xplain any answe	
	, ,	-8,, p.	<u>110</u>				_ (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	,
SUMMARY OF I	FINDING	S - Attach si	te map showing sa	mple point	location	ns, transed	cts, important fea	tures, etc.	
Hydrophytic Vegeta	tion Prese	nt?	Yes						
Hydric Soil Present?			NO			Is This S	Sample Area Within	a Wetland?	NO
Wetland Hydrology	Present?		NO						
Remarks:									
HYDROLOGY									
Wetland Hydrology	Indicators	<del></del>					Secondary Indicator	s (minimum of t	wo required)
			ed; check all that apply)				Surface Soil Cr	-	
Surface Water	(A1)		Water-Stained Lea	ves (B9)		•	Drainage Patte	erns (B10)	
High Water Ta	ble (A2)		Aquatic Fauna (B13	3)			Moss Trim Line	es (B16)	
Saturation (A3			Marl Deposits (B13				Dry-Season Wa		
Water Marks (	. ,		Hydrogen Sulfide C		. (62)		Crayfish Burro		
Sediment Dep		•	Oxidized Rhizosphe Presence of Reduce	-	ots (C3)			ble on Aerial (C9) essed Plants (D1)	
Drift Deposits Algal Mat or C			Recent Iron Reduct		(C6)		Geomorphic Po		
Iron Deposits (			Thin Muck Surface		()		Shallow Aguita		
Inundation Vis	ible on Aeri	al (B7)	Other (Explain in Re	emarks)			Microtopograp		
Sparsely Veget	tated Conca	ve Surface (B8)					FAC-Neutral Te	est (D5)	
Field Observations:									
Surface Water Prese	ent?		Depth (inches	):					
Water Table Presen			Depth (inches		ı	Wetland	l Hydrology Present?		NO
Saturation Present?			Depth (inches			: C : I - I- I -			
			oring well, aerial photos S5" for the week endir		•				
1.02 Of Kain in ti	ne 5 days	prior; PDSI 0.8	5 for the week endir	ig in 5/20/22i	near nor	mai (NOAA)			
Remarks:									
Kemarks.									
SOIL									
Profile Description:	(Describe t	o the depth nee	eded to document the ir	ndicator or con	firm the a	bsence of in	dicators.)		
Depth	Matrix		<u>R</u> .	edox Features					
(in) Color (		%	Color (moist)	%	Type ¹	<u>Loc²</u>	Texture	Rer	narks
0-10 10-16 10yr 2.5Y		100	10YR 2/1				LOAM		
2.51	3,0		10111 2/1				LOAW		
				_					
1				_			7		
-		RM=Reduced Matr	ix, MS=Masked Sand Grains.				² Location: PL=Pore Lining		
Hydric Soil Indicator	rs:						Indicators for Proble	ematic <u>Hydric</u> Soi	ls ³ :
Histosol (A1)			Polyvalue B	selow Surface (S8	s) (LRR R,		2 cm Muck (A1	.0) (LRR K, L, MLRA	149B)
Histic Epipedo	<u>n</u> (A2)		MLRA 14	9B)			Coast Prairie R	edox (A16) (LRR K,	L, R)
Black Histic (A				urface (S9) (LRR		19B)		eat or Peat (S3) (LR	R K, L, R)
Hydrogen Sulfi				cky Mineral (F1) (	LRR K, L)			S9) (LRR K, L, M)	
Stratified Laye Depleted Belo		200 (411)	Loamy Gies	(ed Matrix (F2)				w Surface (S8) (LRF ace (S9) (LRR K, L)	( K, L)
Thick Dark Sur		ice (AII)		Surface (F6)				se Masses (F12) (LF	RR K. L. R)
Sandy Mucky I				ark Surface (F7)				dplain Soils (F19) (I	
Sandy Gleyed				ressions (F8)				TA6) (MLRA 144A,	
Sandy <u>Redox</u> (	S5)						Red Parent Ma	iterial (F21)	
Stripped Matri				ndicators of <u>hyd</u>		-		Oark Surface (TF12)	
Dark Surface (	57) (LRR R, N	ЛLRA 149B)	we	tland hydrology i	-		Other (Explain	in Remarks)	
Restrictive Layer (if	observed).			di	sturbed or	problematic.	I		
Type:	observeu).						Hydric	Soil Present?	NO
Depth (inches):									
Remarks:							!		

				Absolute	Dom.	Indicator	Ι			
Tree S	Stratum (Plot size:	<b>30' RAD</b> )		% Cover	Sp?	Status	<u>Dominance</u> Test W	orksheet:		
1.							# Dominants OBL,	FACW, FAC:	1	(A)
2.										
3.							# Dominants acros	s all strata:	2	(B)
4.										
5.							% Dominants OBL,	FACW, FAC:	50%	(A/B)
6.										
7.					= Total	Caucr	Prevalence Index V Total % Cover of:	vorksneet:	Multiply D	
Sanlin	g Stratum (Plot size:	<b>15' RAD</b> )	-		- 10tai	cover	OBL	<u>x</u> 1 =	Multiply By	<u>.                                    </u>
3apiiii 1.							FACW 28	x 2 =	56	_
2.							FAC	- X 2 =		_
3.							FACU <b>45</b>	x 4 =	180	_
4.							UPL	- x 5 =		_
5.							Sum: <b>73</b>	(A)	236	— (B)
6.								-		_
7.							Prevalence Index	= B/A =	3.23	_
		451.040	-		= Total	Cover	Hydrophytic Veget		rs:	
	Stratum (Plot size:	<b>15' RAD</b> )						Test is > 50%		
1. 2.								Index is <= 3.0 Hydrophytic		
3.								or Hydrophytic	-	expiain)
4.							l —— ·	cal Adaptatio		
5.							<u> </u>	•		
6.							¹ Indicators of <u>hydric</u> soil unless disturbed or prob		irology must be p	resent,
7.							Definitions of Vege			
					= Total	Cover				
Herb :	Stratum (Plot size:	<b>5' RAD</b> )					Tree - Woody plants, e			
1.	Solidago canadensis			40	X	FACU	(6m) or more in height a breast height (DBH).	and 3in (7.6cm) o	r larger in diamet	ter at
	Poa palustris			15	X	FACW	breast neight (bbil).			
	Phalaris arundinacea			10		FACW				
	Taraxacum officinale			5		FACU	Sapling - Woody plan 20ft (6m) or more in he			
	Impatiens capensis			3		FACW	Zort (onl) or more in he	igiit ailu less tilai	1 3111 (7.0CIII) DBF	
6. 7.										
7. 8.			<del></del> -				Shrub - Woody plants	avaluding wash		atalu 2 ta
9.							20ft (1 to 6m) in height.		y vines, approxiii	lately 5 to
10.										
11.							Herb - All herbaceous	(non-woody) pla	nts, including her	baceous
12.							vines, regardless of size	. Includes woody	plants, except w	
				73	= Total	Cover	vines, less than approxi	mately 3ft (1m) ir	n height.	
Wood	ly Vines (Plot size:	)	•							
1.										
2.							Woody vine - All wo	ody vines, regard	less of height.	
3.										
4.							Hydrophytic			
5.							Vegetation			
			-		= Total	Cover	Present?		NO	_
Dom!	s: (If observed, list morpho	logical adar-t-ti	alaus)				l			
Kemark	s: (II observed, list morpho	logical adaptations b	elow).							



Project Site:	K42			City/County:	St Albar	s /Franklin		Samp. Date: 5/1	.9/2022
Applicant/Owner:	Velco			,	State:	Vermont	Sampling Point:		-17-wet
Investigator(s):	MCJ			Sectio	n, Townsl	nip, Range:	St Albans		
Landform (hillslope, to		Terrace		<u>Local</u> relie	ef (concave, o	convex, none):	Concave	<u> Slope</u> (%):	3-8
Subregion (LRR or	MLRA):	LRR R	Lat	44.853002		Long:	-73.102969	Datum:	NAD 83
Soil Map Unit:		Loamy fine <u>san</u>						NWI Class:	PEM
			typical for this time of ye	ear?	Yes	(If no, e	xplain in Remarks.)		
Are Vegetation, Soil	-		70000				_	cumstances?	Yes
Are Vegetation, Soil	l, or Hydrol	ogy naturally pr	oblematic? <u>No</u>				_ (If needed, e	xplain any answe	rs in Remarks.)
CLINANA A DV OF	LINIDINIC	^		عمام مامم	lasstic		ata imamantant fac		
			te map showing sar	npie point	Tocation	is, transe	cts, important rea	atures, etc.	
Hydrophytic Vegeta		τ? -	YES			In Thin	Camanala Ausa 14/i4hin	- 14/-+  2	VEC
Hydric Soil Present?			YES			is inis	Sample Area Within	a wetland?	YES
Wetland Hydrology Remarks:	Present?		YES						
Remarks:									
HADBOLOCA									
HYDROLOGY Wetland Hydrology	Indicators						Secondary Indicator	rs (minimum of tu	vo required)
, 0,		f one is reauire	d; check all that apply)				Surface Soil Cr		vo requireu)
Surface Water			X Water-Stained Leav	es (B9)		•	Drainage Patte		
High Water Ta		-	Aquatic Fauna (B13)				Moss Trim Line		
X Saturation (A3		-	Marl Deposits (B13)					ater Table (C2)	
Water Marks (		-	Hydrogen Sulfide O				Crayfish Burro		
Sediment Dep		-	X Oxidized Rhizospher		ots (C3)			ible on Aerial (C9)	
Drift Deposits		-	Presence of Reduce		()			essed Plants (D1)	
Algal Mat or C		-	Recent Iron Reducti		s (C6)		Geomorphic P		
Iron Deposits (		-	Thin Muck Surface (	C7)			Shallow Aquita		
Inundation Vis	ible on Aeria	l (B7)	Other (Explain in Re	marks)				ohic Relief (D4)	
Sparsely Veget	tated Concav	e Surface (B8)					FAC-Neutral To	est (D5)	
Field Observations:						1			
Surface Water Prese	ent?		Depth (inches)	:					
Water Table Presen	t?		Depth (inches)		_	Wetland	d Hydrology Present?		YES
Saturation Present?	)	x	Depth (inches)	: 6	-				
Remarks:	3 days		5" for the week endin						
SOIL	(Doscribo t	a the depth nee	eded to document the in	dicator or cor	afirm the a	bsonso of in	dicators \		
Depth	Matrix	o the depth nee		dox Features		DSEILE OI III	uicators.)		
		<del></del> -		%	Type ¹	Loc ²	Toyturo	Pon	narks
(in) Color (	illoistj		Color (moist)		Туре	<u> </u>	Texture MUCK	nei	latiks
12-16 10yr	2/1						MUCKY LOAM		
				-					
l <del>-</del>	D. D. Hallan	204 204 004 004	MC Marilado do Carina				21	******	
		KIVI=Keduced IVIatri	x, MS=Masked Sand Grains.				² Location: PL=Pore Lining		2
Hydric Soil Indicator	rs:						Indicators for Proble	ematic <u>Hydric</u> Soi	ls³:
Histosol (A1)			Polyvalue Be	elow Surface (S	8) (LRR R,		2 cm Muck (A1	LO) (LRR K, L, MLRA	149B)
X Histic Epipedo	n (A2)		MLRA 149					ledox (A16) (LRR K,	
Black <u>Histic</u> (A	3)		Thin Dark Su	urface (S9) (LRR	R, MLRA 14	19B)	5 cm Mucky Pe	eat or Peat (S3) (LRI	R K, L, R)
Hydrogen Sulf	ide (A4)		Loamy Muc	ky Mineral (F1)	(LRR K, L)		Dark Surface (	S9) (LRR K, L, M)	
Stratified Laye	rs (A5)		Loamy Gley	ed Matrix (F2)			Polyvalue Belo	w Surface (S8) (LRR	K, L)
Depleted Belo	w Dark Surfa	ce (A11)	Depleted M	atrix (F3)			Thin Dark Surf	ace (S9) (LRR K, L)	
Thick Dark Sur	face (A12)		Redox Dark	Surface (F6)			Iron-Mangane	se Masses (F12) (LR	R K, L, R)
Sandy Mucky I	Mineral (S1)		Depleted Da	ark Surface (F7)			Piedmont Floo	dplain Soils (F19) (N	ИLRA 149B)
Sandy Gleyed			Redox Depr	essions (F8)				TA6) (MLRA 144A, 1	L45, 149B)
Sandy Redox (							Red Parent Ma		
Stripped Matr				ndicators of <u>hyd</u>		-		Dark Surface (TF12)	
Dark Surface (	S7) (LRR R, N	ILRA 149B)	wet	land hydrology	-		Other (Explain	in Remarks)	
Restrictive Layer (if	observed).			di	isturbed or	problematic.	ı		
Type:	observea):						Hydric	Soil Present?	YES
Depth (inches):							I III		ILJ_
Remarks:							!		

	Absolute	Dom.	Indicator		
Tree Stratum (Plot size:30' RAD)	% Cover	Sp?	Status	Dominance Test Worksheet:	
1				# Dominants OBL, FACW, FAC: 2	(A)
2					
3				# Dominants across all strata: 2	(B)
4	- ——				
5				% Dominants OBL, FACW, FAC: 100%	(A/B)
6.				Downston and the Mandale and	
7			Carra	Prevalence Index Worksheet:	
Sapling Stratum (Plot size: 15' RAD )		= Total	cover	Total % Cover of:  OBL x 1 =	<u> </u>
				OBL x 1 = FACW 95 x 2 = 190	_
2				FAC 30 x3 = 90	
2				FACU 15 x 4 = 60	
				UPL x 5 =	_
				Sum: <b>140</b> (A) <b>340</b>	— (B)
6.					` ′
7.				Prevalence Index = B/A = 2.43	
		= Total	Cover	Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size: 15' RAD )				X Dominance Test is > 50%	
1.				X Prevalence Index is <= 3.0	
2.				Problematic Hydrophytic Vegetation ¹	(explain)
3.				Rapid Test for Hydrophytic Vegetation	ı
4.				Morphological Adaptations	
5				¹ Indicators of <u>hydric</u> soil and wetland hydrology must be	present,
6				unless disturbed or problematic.	
7				Definitions of Vegetation Strata:	
-1		= Total	Cover		
Herb Stratum (Plot size: 5' RAD )				Tree - Woody plants, excluding woody vines, approxim.  (6m) or more in height and 3in (7.6cm) or larger in diam.	
1. Epilobium hirsutum	63	<u>X</u>	FACW	breast height (DBH).	eter at
2. Phalaris arundinacea	32	<u> </u>	FACW		
3. <u>Vitis riparia</u>			FAC	Conling West states at 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and 15 and	Society I
Solidago canadensis     Equisetum arvense	- <del>- 15</del> - 15		FACU FAC	Sapling - Woody plants, excluding woody vines, appro 20ft (6m) or more in height and less than 3in (7.6cm) DB	
6.					
7.					
· ·				Shrub - Woody plants, excluding woody vines, approxi	
8.					mately 3 to
8.				20ft (1 to 6m) in height.	mately 3 to
9.					mately 3 to
9. 10.		<u> </u>		20ft (1 to 6m) in height.	
9. 10. 11.		<u></u>		20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except w	erbaceous
9. 10.			Cover	20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he	erbaceous
9. 10. 11.		= Total	Cover	20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except w	erbaceous
9. 10. 11. 12.		= Total	Cover	20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except w	erbaceous
9		= Total	Cover	20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except w	erbaceous
9		= Total	Cover	20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.	erbaceous
9.		= Total	Cover	20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.	erbaceous
9.		= Total	Cover	20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.	erbaceous
9.		= Total		20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic	erbaceous
9.		<u></u>		20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation	erbaceous
9.		<u></u>		20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation	erbaceous
9.		<u></u>		20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation	erbaceous
9.		<u></u>		20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation	erbaceous
9.		<u></u>		20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation	erbaceous
9.		<u></u>		20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation	erbaceous
9.		<u></u>		20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation	erbaceous
9.		<u></u>		20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation	erbaceous
9.		<u></u>		20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation	erbaceous
9.		<u></u>		20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation	erbaceous
9.		<u></u>		20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants, including he vines, regardless of size. Includes woody plants, except vines, less than approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation	erbaceous

2022-SA-9-Up

Project Site:	K42			City/County:	St Albar	s /Franklin		Samp. Date: 6/2	2/2022
Applicant/Owner:	Velco			City/County	State:	Vermont	Sampling Point:	2022-S	A-9-Up
Investigator(s):	BG			Section		nip, Range:	St Albans		ор
Landform (hillslope, to		Terrace		- Local relief			Convex	Slope (%):	0-3
Subregion (LRR or	MLRA):	LRR R	Lat:	-		Long:	-73.084575	Datum:	NAD 83
Soil Map Unit:	St Albans	Clay						NWI Class:	Upland
Are climatic/hydrol	ogic conditi	ons on the site typ	ical for this time of ye	ar?	Yes	(If no, ex	xplain in Remarks.)		
Are Vegetation, Soi	l, or Hydrol	ogy significantly dis	sturbed? <u>No</u>			•	Normal Cir	cumstances?	Yes
Are Vegetation, Soi	l, or Hydrol	ogy naturally probl	lematic? No				(If needed, e	xplain any answe	rs in Remarks.)
							_		
SUMMARY OF	FINDING:	S - Attach site	map showing san	nple point l	location	ns, transed	cts, important fea	atures, etc.	
Hydrophytic Vegeta	ation Presen	it?	NO						
Hydric Soil Present?	?	_	NO			Is This S	Sample Area Within	a Wetland?	NO
Wetland Hydrology	Present?		NO						
Remarks:									
HYDROLOGY									
Wetland Hydrology							Secondary Indicator		vo required)
		f one is required; o	check all that apply)	_		-	Surface Soil Cr	acks (B6)	
Surface Water	. ,		Water-Stained Leave	es (B9)			Drainage Patte		
High Water Ta		_	Aquatic Fauna (B13)				Moss Trim Line	, ,	
Saturation (A3	-	_	Marl Deposits (B13)					ater Table (C2)	
Water Marks		_	Hydrogen Sulfide Od				Crayfish Burro		
Sediment Dep		_	Oxidized Rhizospher	-	ts (C3)			ible on Aerial (C9)	
Drift Deposits			Presence of Reduced					essed Plants (D1)	
Algal Mat or C	. ,	_	Recent Iron Reduction		(C6)		Geomorphic P		
Iron Deposits		—	Thin Muck Surface (0				Shallow Aquita		
Inundation Vis		· · · —	Other (Explain in Rer	narks)				ohic Relief (D4)	
Sparsely Vege	tated Concav	e Surface (B8)					FAC-Neutral T	est (D5)	
Field Observations:									
Surface Water Pres	ent?		Depth (inches):						
Water Table Presen			Depth (inches):			Wetland	d Hydrology Present?		NO
Saturation Present?			Depth (inches): ng well, aerial photos,						
Remarks:									
SOIL									
Profile Description:	(Describe to	o the depth neede	d to document the inc	licator or conf	irm the a	bsence of in	dicators.)		
Depth	Matrix		Red	dox Features					
(in) Color (	(moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Ren	narks
	r 4/1	100					LOAM		
10-16 5Y	6/3	95	5y 5/1	5	c	m	LOAM		
		·							
		. ——— —		- ——					
<del></del>		· — —		- ——					
¹ Type: C=Concentration,	D=Depletion,	RM=Reduced Matrix, N	1S=Masked Sand Grains.	. ———			² Location: PL=Pore Lining	g, M=Matrix.	
Hydric Soil Indicato	rs.						Indicators for Proble	ematic Hydric Soi	le ³ .
***************************************									
Histosol (A1)				low Surface (S8)	) (LRR R,			LO) (LRR K, L, MLRA	
Histic Epipedo			MLRA 149					ledox (A16) (LRR K,	
Black Histic (A	•			rface (S9) (LRR R		<del>1</del> 9B)		eat or Peat (S3) (LRI	R K, L, R)
Hydrogen Sulf				y Mineral (F1) (L	LKK K, L)			S9) (LRR K, L, M)	
Stratified Laye		(444)		d Matrix (F2)				w Surface (S8) (LRR	K, L)
Depleted Belo		ce (A11)	Depleted Ma					ace (S9) (LRR K, L)	
Thick Dark Sur			Redox Dark S					se Masses (F12) (LR	
Sandy Mucky				rk Surface (F7)				dplain Soils (F19) (N	
Sandy Gleyed			Redox Depre	ssions (F8)				TA6) (MLRA 144A, 1	145, 1498)
Sandy Redox (			3.				Red Parent Ma		
Stripped Matr		11 DA 140D)		dicators of hydro		-		Dark Surface (TF12)	
Dark Surface (	,31) (LKK K, IV	ILINA 1430)	weti	and hydrology n		problematic.	Other (Explain	iii neiiiai KS)	
Restrictive Layer (if	observed).			uis	turbed or	problematic.			
Type:							Hydric	Soil Present?	NO
Depth (inches):									
Remarks:									

	Absolute	Dom.	Indicator	Γ	
Tree Stratum (Plot size:)	% Cover	Sp?	Status	Dominance Test Worksheet:	
1				# Dominants OBL, FACW, FAC:	<b>1</b> (A)
2.					
3.				# Dominants across all strata:	<b>2</b> (B)
4.					
5.				% Dominants OBL, FACW, FAC: 5	<b>0%</b> (A/B)
6.					
7.				Prevalence Index Worksheet:	
		= Total	Cover	Total % Cover of:	iply By:
Sapling Stratum (Plot size: 15' RAD )				OBL x 1 =	
1.				FACW <b>30</b> x 2 =	60
2.				FAC x 3 =	
3.				FACU <b>95</b> x 4 = <b>3</b>	80
4.				<u>UPL</u> <u>x</u> 5 =	
5.					<b>40</b> (B)
6.					
7.				Prevalence Index = B/A = 3	.52
		= Total	Cover	Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size: 15' RAD )			<del></del>	Dominance Test is > 50%	
				Prevalence Index is <= 3.0	
2.				Problematic <u>Hydrophytic</u> Vegetat	tion ¹ (explain)
2				Rapid Test for Hydrophytic Veget	
				Morphological Adaptations	ution
г				<del></del>	
				¹ Indicators of <u>hydric</u> soil and wetland hydrology muless disturbed or problematic.	ust be present,
6 7.				Definitions of Vegetation Strata:	
/		= Total	Cover	Delinitions of vegetation strata.	
Herb Stratum (Plot size: 5' RAD )		- 10161	Covei	Tree - Woody plants, excluding woody vines, app	rovimately 20ft
1. Galium mollugo	80	v	FACU	(6m) or more in height and 3in (7.6cm) or larger in	
Conclea sensibilis	30	<u> </u>	FACU	breast height (DBH).	
	10				
3. Fragaria virginiana			FACU	Conling Wasterlands evaluating woody vines	·
4. Parthenocissus quinquefolia			FACU	Sapling - Woody plants, excluding woody vines, 20ft (6m) or more in height and less than 3in (7.6c	
5.				Zott (onl) or more in neight and less than I ,	
6.					
7.					
8.				Shrub - Woody plants, excluding woody vines, ap 20ft (1 to 6m) in height.	pproximately 3 to
9.				2011 (1 to only in neight.	
10					
11.				Herb - All herbaceous (non-woody) plants, includ	
12				vines, regardless of size. Includes woody plants, ex vines, less than approximately 3ft (1m) in height.	cept wooay
	125	= Total	Cover	VIII 69, 1888 6141 6151 11 11 11 11 11 11 11 11 11 11 11 11	
Woody Vines (Plot size:)					
1					
2				Woody vine - All woody vines, regardless of he	ight.
3					
4				Hydrophytic	
5.				Vegetation	
		= Total	Cover	Present? N	NO
Remarks: (If observed, list morphological adaptations below).					



2022-SA-9-wet

Drainet Sita	K42			Ci+v/C	ountu	St Alban	s /Franklin		Samp. Date: 6/	/2/2022
Project Site: Applicant/Owner:	Velco			_City/Co	ounty	State:	Vermont	Sampling Point:	2022-9	SA-9-wet
Investigator(s):	BG				Section,		***************************************	St Albans		
Landform (hillslope, t	:errace, etc.):	Terrace		_ Loca	l relief (	concave, c	convex, none):	Concave	Slope (%):	0-3
Subregion (LRR or	MLRA):	LRR R	<u>Lat</u>	44.87	<b>'3751</b>		Long:	-73.084677	Datum:	NAD 83
Soil Map Unit:	St Albans								NWI Class:	PEM
			typical for this time of y	ear?		Yes	(If no, e	xplain in Remarks.)		
Are Vegetation, Soi									cumstances?	Yes
Are Vegetation, Soi	il, or Hydrol	ogy naturally pro	oblematic? <u>No</u>					_ (If needed, e	xplain any answ	ers in Remarks.)
SUMMARY OF	FINDING	S - Attach sit	te map showing sa	mple p	oint lo	ocation	າs, transed	cts, important fea	atures, etc.	
Hydrophytic Vegeta		it?	YES							
Hydric Soil Present		_	YES			ı	Is This S	Sample Area Within	a Wetland?	YES
Wetland Hydrology Remarks:	Present?		YES							
HYDROLOGY										
Wetland Hydrology			ali, ali a ali, all'ali anti a constru					Secondary Indicator		wo required)
<u> </u>	-	one is require	d; check all that apply)				-	Surface Soil Cr		
Surface Wate		-	Water-Stained Leav					Drainage Patte Moss Trim Line		
High Water Ta  Saturation (A:		-	Aquatic Fauna (B13 Marl Deposits (B13					Dry-Season W	` '	
Water Marks		-	Hydrogen Sulfide O	•				Crayfish Burro	3 3	
Sediment Dep		-	Oxidized Rhizosphe		ving Roots	s (C3)			ible on Aerial (C9)	
Drift Deposits		-	Presence of Reduce			- ( ,			essed Plants (D1)	
Algal Mat or 0	Crust (B4)	_	Recent Iron Reduct	ion in Tille	ed Soils (0	C6)		Geomorphic P	osition (D2)	
Iron Deposits		_	Thin Muck Surface					Shallow Aquita		
Inundation Vi		· · · -	Other (Explain in Re	emarks)				Microtopogra		
		ve Surface (B8)	_					FAC-Neutral T	est (D5)	
Field Observations: Surface Water Pres			Depth (inches)	١.						
Water Table Preser			Depth (inches)				Wetland	d Hydrology Present?		YES
Saturation Present		x	Depth (inches)		face		Wedane	a riyarology i reselle.	_	11.5
Remarks:										
SOIL Profile Description:	: (Describe t	o the depth nee	eded to document the in	dicator	or confir	rm the a	bsence of in	dicators.)		
Depth	Matrix	o the depth hee		edox Fea				arcators,,		
(in) Color	(moist)	%	Color (moist)	Ç	%	Type ¹	Loc ²	Texture	Re	marks
0-5 5y	3/1	100						LOAM		
5-16 5y	3/1	90	5Y 5/6	1	10	С	M	LOAM		
·										
1					:			2		
		RM=Reduced Matrix	x, MS=Masked Sand Grains.					² Location: PL=Pore Lining	*	3
Hydric Soil Indicato	rs:							Indicators for Proble	ematic <u>Hydric</u> Sc	oils":
Histosol (A1)			Polyvalue B		face (S8) (	(LRR R,			LO) (LRR K, L, MLRA	· ·
Histic Epipedo			MLRA 14						tedox (A16) (LRR K	
Black Histic (A			Thin Dark S				ŧ9Β)		eat or Peat (S3) (LF	RR K, L, R)
Hydrogen Sulf Stratified Lave			Loamy Muc Loamy Gley			RKK, L)			S9) (LRR K, L, M) w Surface (S8) (LR	ו אם.
Depleted Belo		οςο (Δ11)	X Depleted M						ace (S9) (LRR K, L)	K K, L)
Thick Dark Su		ce (AII)	X Redox Dark						se Masses (F12) (L	RR K. L. R)
Sandy Mucky			Depleted D						dplain Soils (F19)	
Sandy Gleyed			Redox Depr						TA6) (MLRA 144A,	
Sandy <u>Redox</u> (	(S5)							Red Parent Ma	aterial (F21)	
Stripped Matr							getation and		Dark Surface (TF12	)
Dark Surface	(S7) (LRR R, N	1LRA 149B)	we	tland hyd	rology m		esent, unless	Other (Explain	in Remarks)	
							1.1			
Restrictive Laver (if	observed):						problematic.			
Restrictive Layer (if Type:							problematic.	Hydric	Soil Present?	YES
	:						problematic.	Hydric	Soil Present?	YES

			Absolute	Dom.	Indicator	Ī		
Tree Strat	tum (Plot size:	)	% Cover	Sp?	Status	Dominance Test Workshee	t:	
1	·	<u> </u>				# Dominants OBL, FACW, F.	AC: <b>2</b>	(A)
2								
3						# Dominants across all stra	ta: <b>2</b>	(B)
4								
5						% Dominants OBL, FACW, F	AC: <b>100%</b>	(A/B)
6						2 1 1 1 1 1 1 1	<del> </del>	
^{7.} —					C	Prevalence Index Workshee		
Sanling St	ratum (Plot size:	15' RAD )		= Total	cover	Total % Cover of: OBL x 1	<u>Multiply</u> By	<u>/:</u>
4						FACW <b>120</b> x 2		_
2.						FAC X3		_
3.						FACU <b>10</b> x 4		_
4.						UPL 10 x 5	-	_
5.						Sum: <b>140</b> (A)	330	— (B)
6.								
7.						Prevalence Index = B/	/A = <b>2.36</b>	_
				T-4-1	C	11	d:	
Shrub Str	atum /Dlat siza.	15' RAD )		= Total	Cover	Hydrophytic Vegetation Inc		
	atum (Plot size: <b>raea alba</b>		5	Х	FACW	X Dominance Test is > X Prevalence Index is		
			_			Problematic Hydrop		avnlain)
3.						Rapid Test for Hydro		- Apidiny
4.						Morphological Adap	-	
5.						I —		
6.						¹ Indicators of <u>hydric</u> soil and wetla unless disturbed or problematic.	ina nyarology must be p	resent,
7.						Definitions of Vegetation S	trata:	
				= Total	Cover			
Herb Stra	tum (Plot size:	<b>5' RAD</b> )				Tree - Woody plants, excluding w		
	alaris arundinacea		90	X	FACW	(6m) or more in height and 3in (7. breast height (DBH).	6cm) or larger in diamet	ter at
2. <u><b>On</b></u>	oclea sensibilis		25		FACW	breast neight (DBH).		
	ia cracca L.		10		UPL			
	lium mollugo		10		FACU	Sapling - Woody plants, excluding		
5						20ft (6m) or more in height and le	ss than 3in (7.6cm) DBH	1.
^{6.} —								
^{7.} —								
8. —						Shrub - Woody plants, excluding 20ft (1 to 6m) in height.	, woody vines, approxim	nately 3 to
9. 10.								
11.						Herb - All herbaceous (non-wood	dv) plants including her	haconis
12.						vines, regardless of size. Includes		
				= Total	Cover	vines, less than approximately 3ft	(1m) in height.	
Woody Vi	ines (Plot size:	)						
1.	`	,						
2.						Woody vine - All woody vines,	regardless of height.	
3.								
4.						Hydrophytic		
5.						Vegetation		
				= Total	Cover	Present?	YES	_
Remarks: (I	f observed, list morphol	ogical adaptations below).						

2022-SW-202-Up

Project Site:	K42			City/County	, Swanto	n /Franklin		Samp. Date: 5/	19/2022
Applicant/Owner:	Velco			_ City/County	State:	Vermont	Sampling Point:		V-202-Up
Investigator(s):	BG			Section		hip, Range:	Swanton		·
Landform (hillslope, t		Terrace				convex, none):	Convex	Slope (%):	0-6
Subregion (LRR or	MLRA):	LRR R	Lat	44.90936		Long:	-73.065062	Datum:	NAD 83
Soil Map Unit:	<b>AU Gres</b>	Loamy fine san	d			-		NWI Class:	Upland
Are climatic/hydrol	logic condit	ions on the site	e typical for this time of y	ear?	Yes	(If no, e	xplain in Remarks.)		
Are Vegetation, Soi							_	cumstances?	Yes
Are Vegetation, Soi	il, or Hydro	logy naturally p	oroblematic? <u>No</u>				(If needed, e	xplain any answe	ers in Remarks.)
CLIN 48 44 DV CE	FINIBINIC								
			ite map showing sa	mple point	t locatioi	ns, transe	cts, important fea	atures, etc.	
Hydrophytic Vegeta		nt?	YES			1.	C   A   1411111		NO
Hydric Soil Present			YES			Is This	Sample Area Within	a Wetland?	NO
Wetland Hydrology	/ Present?		NO						
Remarks:									
HYDROLOGY									
Wetland Hydrology			endu ab nak - II + I + I \				Secondary Indicator		wo required)
· · · · · · · · · · · · · · · · · · ·		of one is requir	ed; check all that apply)	(0.0)		-	Surface Soil Cr		
Surface Water			Water-Stained Leav				Drainage Patte		
High Water Ta Saturation (A			<del></del> '	•			Moss Trim Line	es (B16) ater Table (C2)	
Water Marks			Marl Deposits (B13 Hydrogen Sulfide O				Crayfish Burro		
Sediment Dep			Oxidized Rhizosphe		oots (C3)			ble on Aerial (C9)	
Drift Deposits			Presence of Reduce	_	- 500 (00)			essed Plants (D1)	
Algal Mat or 0			Recent Iron Reduct		ils (C6)		Geomorphic P		
Iron Deposits			Thin Muck Surface		( 7		Shallow Aquita		
Inundation Vi		al (B7)	Other (Explain in Re				Microtopogra		
Sparsely Vege	tated Conca	ve Surface (B8)					FAC-Neutral T	est (D5)	
Field Observations:						T			
Surface Water Pres			Depth (inches)	1:					
Water Table Preser			Depth (inches)		_	Wetland	d Hydrology Present?		NO
Saturation Present			Depth (inches)		_		,		
Describe Recorded	Data (strea	ım gauge, moni	itoring well, aerial photos	s, previous ins	spections),	if available:			
1.02" of Rain in t	the 5 days	prior: PDSI 0.	85" for the week endir	ng in 5/20/2	2near nor	mal (NOAA	)		
	,.	,,.		,,		(	•		
Remarks:									
Memarks.									
SOIL									
	· (Describe	to the denth ne	eeded to document the ir	dicator or co	nfirm the a	hsence of in	dicators )		
Depth	Matrix	to the depth he		edox Features		bacilice of in	alcators.		
	(moist)	<del></del>	Color (moist)	%	Type ¹	Loc ²	Texture	Po	marks
	/ 3/3	100	Color (Illoist)		Турс		TEXTUTE		marks
	5/1	60	10YR 5/6	40	_ <u>_ c</u>		LOAM		
				_					
1	D.D. 1.1	P.4. P. 1					2,		·
*Type: C=Concentration,	, D=Depletion	, RM=Reduced Mat	rix, MS=Masked Sand Grains.				² Location: PL=Pore Lining	, M=Matrix.	
Hydric Soil Indicato	ors:						Indicators for Proble	ematic <u>Hydric</u> So	ils ³ :
Histosol (A1)			Polyvalue B	elow Surface (S	S8) (LRR R		2 cm Muck (A	lo) (LRR K, L, MLRA	149R)
Histic Epipedo	on (A2)		MLRA 14		JO) (EIIII II,			edox (A16) (LRR K,	
Black Histic (A				urface (S9) (LRF	R R. MLRA 14	49B)		eat or Peat (S3) (LR	
Hydrogen Sulf				ky Mineral (F1)		-,		S9) (LRR K, L, M)	7-7-7
Stratified Laye				red Matrix (F2)				w Surface (S8) (LRI	R K, L)
Depleted Belo		ace (A11)	X Depleted N					ace (S9) (LRR K, L)	
Thick Dark Su				Surface (F6)				se Masses (F12) (LI	RR K, L, R)
Sandy Mucky				ark Surface (F7	)			dplain Soils (F19) (	
Sandy Gleyed				essions (F8)				TA6) (MLRA 144A,	
Sandy Redox				, -,			Red Parent Ma		
Stripped Matr			3	ndicators of hy	drophyticya	getation and		Dark Surface (TF12)	
Julipped Mati	11/ (30)		,						
Dark Surface		MLRA 149B)	we	tland hydrolog		-	Other (Explain	in Remarks)	
		MLRA 149B)	we	tland hydrology o	y must be pr	-	Other (Explain	in Kemarks)	
	(S7) (LRR R, I	·	we		y must be pr	esent, unless	Other (Explain	in Remarks)	
Dark Surface	(S7) (LRR R, I	·	we		y must be pr	esent, unless		Soil Present?	YES
Dark Surface (Restrictive Layer (if Type: Depth (inches):	(S7) (LRR R, I observed)	·	we		y must be pr	esent, unless		·	YES
Dark Surface (Restrictive Layer (if	(S7) (LRR R, I observed)	·	we		y must be pr	esent, unless		·	YES

Sampling Point: 2022-SW-202-Up

					,		
		Absolu					
Tree	Stratum (Plot size:)	% Cove	er Sp?	Status	<u>Dominance</u> Test Worksheet:		
1.					# Dominants OBL, FACW, FAC:	4	(A)
2.							_
				- ——	# Daminanta assass all atreta.		/D)
3.					# Dominants across all strata:	8	— ^(B)
4.							
5.					% Dominants OBL, FACW, FAC:	50%	(A/B)
6.							
7.					Prevalence Index Worksheet:		
			= Tot	al <u>Cover</u>	_Total % Cover of:_	Multiply B	y:
Saplir	ng Stratum (Plot size: 15' RAD )				OBL <b>10</b> x 1 =	10	
1.					FACW <b>5</b> x 2 =	10	
		<u> </u>					_
2.					FAC x 3 =	45	
3.					FACU <b>20</b> x 4 =	80	
4.					<u>UPL x</u> 5 =		
							<del>_</del>
5.					Sum:(A)	145	(B)
6.							
7.					Prevalence Index = B/A =	2.90	
,.					Trevalence maex = b/A =		_
			= Tot	al <u>Cover</u>	Hydrophytic Vegetation Indicat	ors:	
Shruk	Stratum (Plot size: 15' RAD )				Dominance Test is > 50%	6	
	·	-	v	FACIL	I ———		
	Lonicera morrowii		<u>x</u>	FACU	X Prevalence Index is <= 3		
2.	Salix bebbiana	5	X	FACW	Problematic <u>Hydrophyti</u>	ç Vegetation* (	explain)
3.					Rapid Test for Hydrophy	tic Vegetation	
4.					Morphological Adaptation	ons	
5.					¹ Indicators of <u>hydric</u> soil and wetland h	vdrology must be	nresent,
6.					unless disturbed or problematic.	,	p,
7.							
/.					Definitions of Vegetation Strata	1:	
		10	= Tot	al Cover			
Herb	Stratum (Plot size: 5' RAD )				Tree - Woody plants, excluding woody	vines, approxima	tely 20ft
	Solidago rugosa	15	Х	FAC	(6m) or more in height and 3in (7.6cm)	or larger in diame	ter at
					breast height (DBH).		
	Anthoxanthum odoratum	5	X	<u>FACU</u>			
3.	Equisetum fluviatile	5	Х	OBL			
	Galium mollugo		$$ ${x}$	FACU	Sapling - Woody plants, excluding wo	nody vines, approx	imately
			$-\frac{x}{x}$	OBL	20ft (6m) or more in height and less the		
5.	Spartina alterniflora				2017 (0117) 01 111012 11 112012	un un (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
6.	Houstonia caerulea	5	X	FACU			
7.							
8.					Shrub - Woody plants, excluding woo	de vinos annrovir	antoly 3 to
					20ft (1 to 6m) in height.	uy villes, approxii	llatery 5 to
9.					201t (1 to onl) in neight.		
10.							
11.					Herb - All herbaceous (non-woody) pl	lants including he	rhaceous
						aries, including ne	Duccous
12.						ly plants except w	oody
					vines, regardless of size. Includes wood		oody
		40	= Tot	al Cover	vines, regardless of size. Includes wood vines, less than approximately 3ft (1m)		oody
Wood	dy Vines (Plat size:	40	= Tot	al Cover			roody
	dy Vines (Plot size:)	40	= Tot	al Cover			roody
Wood	dy Vines (Plot size:)	40	= Tot	al Cover	vines, less than approximately 3ft (1m)	in height.	roody
	dy Vines (Plot size:)	40	= Tot	al Cover		in height.	roody
1. 2.	dy Vines (Plot size:)	40	= Tot	al Cover	vines, less than approximately 3ft (1m)	in height.	oody
1. 2. 3.	dy Vines (Plot size:)	40	= Tot	al Cover	vines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega	in height.	oody
1. 2. 3. 4.	dy Vines (Plot size:)	40	= Tot	al Cover	vines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega	in height.	roody
1. 2. 3.	dy Vines (Plot size:)	40	= Tot	al Cover	vines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega	in height.	roody
1. 2. 3. 4.	dy Vines (Plot size:)	40			wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	roody
1. 2. 3. 4.	dy Vines (Plot size:)	40		al Cover	vines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega	in height.	roody
1. 2. 3. 4. 5.					wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	oody
1. 2. 3. 4. 5.	dy Vines (Plot size:)				wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	oody
1. 2. 3. 4. 5.					wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	oody
1. 2. 3. 4. 5.					wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	oody
1. 2. 3. 4. 5.					wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	oody
1. 2. 3. 4. 5.					wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	oody
1. 2. 3. 4. 5.					wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	oody
1. 2. 3. 4. 5.					wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	oody
1. 2. 3. 4. 5.					wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	oody
1. 2. 3. 4. 5.					wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	oody
1. 2. 3. 4. 5.					wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	oody
1. 2. 3. 4. 5.					wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	oody
1. 2. 3. 4. 5.					wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	oody
1. 2. 3. 4. 5.					wines, less than approximately 3ft (1m)  Woody vine - All woody vines, rega  Hydrophytic  Vegetation	in height.	oody

2022-SW-202-Wet

Project Site:	K42			City/Cou	ıntv.	Swanto	n /Franklin		Samp. Date: 5/	19/2022
Applicant/Owner:	Velco					State:	Vermont	Sampling Point:	_	/-202-Wet
Investigator(s):	MCJ			_			nip, Range:	Swanton		
Landform (hillslope, t				_		(concave, c	onvex, none):	Concave	Slope (%):	0-6
Subregion (LRR or		LRR R	<u>La</u> t	t: <b>44.909</b>	219		Long:	-73.065063	Datum:	NAD 83
Soil Map Unit:		Loamy fine sand	ypical for this time of y	ear?		Yes	(If no e	xplain in Remarks.)	NWI Class:	PEM
Are Vegetation, Soi			• • • • • • • • • • • • • • • • • • • •	<u>.                                    </u>		103	• (11 110, 0	•	cumstances?	Yes
Are Vegetation, So			70000					_	xplain any answe	
								_		
SUMMARY OF	FINDING	S - Attach site	e map showing sa	mple po	oint l	ocatior	ns, transe	cts, important fea	atures, etc.	
Hydrophytic Vegeta	ation Prese	nt?	YES							
Hydric Soil Present		_	YES				Is This	Sample Area Within	a Wetland?	YES
Wetland Hydrology	/ Present?		YES							
Remarks:										
HYDROLOGY	. I II							Constant land land		
Wetland Hydrology			d; check all that apply)					Secondary Indicator	•	wo required)
X Surface Wate		or one is required	Water-Stained Leav	ves (R9)			•	Drainage Patte		
High Water Ta		_	Aquatic Fauna (B13					Moss Trim Line		
Saturation (A:		_	Marl Deposits (B13)	-				Dry-Season W	. ,	
Water Marks	(B1)	_	Hydrogen Sulfide O					Crayfish Burro		
Sediment Dep	oosits (B2)	_	Oxidized Rhizosphe	res on Livin	ng Root	s (C3)		Saturation Visi	ible on Aerial (C9)	
Drift Deposits	; (B3)	_	Presence of Reduce	ed Iron (C4)				Stunted or Str	essed Plants (D1)	
Algal Mat or 0		_	Recent Iron Reduct		Soils (	C6)		Geomorphic P		
Iron Deposits		- 1 (27)	Thin Muck Surface					Shallow Aquita		
Inundation Vi		ave Surface (B8)	Other (Explain in Re	3marks)				Microtopogra FAC-Neutral To		
		——————————————————————————————————————							est (D3)	
Field Observations: Surface Water Pres			Donth (inches)	١.						
Water Table Preser			Depth (inches) Depth (inches)				Wotlan	d Hydrology Present?		YES
Saturation Present			Depth (inches)		ace		vvetiani	a riyarology Fresent:	_	163
Remarks:				_						
SOIL										
Profile Description:	: (Describe	to the depth need	ded to document the in	ndicator or	r confi	rm the a	bsence of in	dicators.)		
Depth	Matrix		Re	<u>edox</u> Featı	ures					
(in) Color	(moist)	%	Color (moist)	%		Type ¹	Loc ²	Texture	Re	marks
	y 4/1	95	7.5yr 5/1	5		d	m	SAND		
6-16 2.5,	/5gy	90	2.5y 4/1	10		a	m	SAND		
¹ Type: C=Concentration	, D=Depletion	., RM=Reduced Matrix	, MS=Masked Sand Grains.					² Location: PL=Pore Lining	g, M=Matrix.	
Hydric Soil Indicato	rs:							Indicators for Proble	ematic <u>Hydric</u> So	ils³:
Histosol (A1)			Polyvalue B	selow Surfac	ce (S8)	(I RR R.		2 cm Muck (A	LO) (LRR K, L, MLRA	149B)
Histic Epipedo	on (A2)		MLRA 14		00 (00)	(2			ledox (A16) (LRR K,	
Black Histic (A			Thin Dark S	urface (S9)	(LRR R	, MLRA 14	19B)	5 cm Mucky Po	eat or Peat (S3) (LR	R K, L, R)
Hydrogen Sul	fide (A4)		Loamy Muc	ky Mineral	(F1) (L	RR K, L)		Dark Surface (	S9) (LRR K, L, M)	
Stratified Laye	ers (A5)		X Loamy Gley	<u>(ed</u> Matrix (	(F2)			Polyvalue Belo	w Surface (S8) (LR	R K, L)
Depleted Beld	วพ Dark Surf	ace (A11)	Depleted M	latrix (F3)				Thin Dark Surf	ace (S9) (LRR K, L)	
Thick Dark Su			Redox Dark						se Masses (F12) (L	
Sandy Mucky		j	Depleted D						dplain Soils (F19) (	
Sandy Gleyed			Redox Depr	essions (F8	5)				TA6) (MLRA 144A,	145, 1498)
Sandy Redox Stripped Mati			3,		<b>6</b> la d			Red Parent Ma	ateriai (FZ1) Dark Surface (TF12)	
Dark Surface		MLRA 149B)					getation and esent, unless	Other (Explain		•
	, (=, )	···- · - · <del>· - /</del>	we	iiyui U			problematic.	(Explain	,	
Restrictive Layer (if	observed)	:								
Туре								Hydric	Soil Present?	YES
Depth (inches):	<u>:</u>									
Remarks:										

		Absolute	Dom.	Indicator	I		
Tree Stratum (Plot size:	)	% Cover	Sp?	Status	Dominance Test Worksheet:	-	(4)
1. 2.					# Dominants OBL, FACW, FAC:	5	— ^(A)
3					# Dominants across all strata:	5	(B)
4. 5.					% Dominants OBL, FACW, FAC:	100%	(A/B)
6.					70 Dominants ODE, FACW, FAC.	100/0	_(^,')
7.					Prevalence Index Worksheet:		
Sapling Stratum (Plot size: 15' RAI	<b>D</b> )		= Tota	Cover	Total % Cover of: OBL x 1 =	Multiply By	<u>:</u>
1.	<i>′</i>				FACW 143 x 2 =	286	_
2					FAC <b>15</b> x 3 =	45	_
3. 4.					FACU x 4 = UPL x 5 =		_
5.					Sum: <b>158</b> (A)	331	— (B)
6							_
7					Prevalence Index = B/A =	2.09	_
			= Tota	Cover	Hydrophytic Vegetation Indicator	·s:	
Shrub Stratum (Plot size: 15' RAI	<u>D</u> )	-			X Dominance Test is > 50%		
1. Salix bebbiana		<u>32</u> 	<u>X</u>	FACW	Prevalence Index is <= 3.0	·	
<ul><li>2. <u>Spiraea</u> alba</li><li>3.</li></ul>			<u>x</u>	FACW	Problematic Hydrophytic \ Rapid Test for Hydrophytic		xplain)
4.					Morphological Adaptation	-	
5.					Indicators of hydric soil and wetland hydr		resent.
6					unless disturbed or problematic.		,
7				Causa	Definitions of Vegetation Strata:		
Herb Stratum (Plot size: 5' RAC	)		= Tota	Cover	Tree - Woody plants, excluding woody vi	nes, approximat	elv 20ft
1. Thelypteris palustris	<u>^                                    </u>	32	Х	FACW	(6m) or more in height and 3in (7.6cm) or		
2. Onoclea sensibilis		32	<u> </u>	FACW	breast height (DBH).		
3. <u>Phalaris</u> arundinacea		32	X	FACW			
Equisetum arvense     5.		15		<u>FAC</u>	Sapling - Woody plants, excluding wood 20ft (6m) or more in height and less than		
6.						, ,	
7.							
8.					Shrub - Woody plants, excluding woody	vines, approxim	ately 3 to
9.					20ft (1 to 6m) in height.		
10. 11.					Herb - All herbaceous (non-woody) plan	ts including her	haceous
11.					vines, regardless of size. Includes woody p	olants, except wo	
		111	= Tota	Cover	vines, less than approximately 3ft (1m) in	height.	
Woody Vines (Plot size:	)						
1. 2.					Woody vine - All woody vines, regardle	ess of height.	
3.							
4.					Hydrophytic		
5					Vegetation	VE0	
			= Tota	Cover	Present?	YES	_
Remarks: (If observed, list morphological adap	otations below).				l		



Project Site:	K42			City/County:	Highgat	e /Franklin		Samp. Date: 5/	19/2022
Applicant/Owner:	Velco			- · · · · · ·	State:	Vermont	Sampling Point:		HI-8-up
Investigator(s):	MCJ			_		hip, Range:	Highgate		
Landform (hillslope, te		Terrace		<ul><li>Local relief</li></ul>	(concave,	-	Convex	Slope (%):	25-60
Subregion (LRR or		LRR R	Lat	44.923634		Long:	-73.057882	Datum:	NAD 83
Soil Map Unit:		loamy fine sand		2	V	/16	unlain in Damanta \	NWI Class:	Upland
			typical for this time of ye	ear <u>r</u>	Yes	- (IT no, e	xplain in Remarks.)		v
Are Vegetation, Soil			70000				_	cumstances?	Yes
Are Vegetation, Soil	i, or Hyarc	logy naturally p	roblematic? <u>No</u>				_ (If needed, e.	xplain any answ	ers in Kemarks.)
CLINANA A DV OF I	FINIDING	°C	+a man ahawina aa	ا خمام مامم		+	ata imama utan tifaa		
			te map showing sai	npie point i	ocatioi	is, transe	cts, important lea	atures, etc.	
Hydrophytic Vegeta		ent?	NO						
Hydric Soil Present?			NO			Is This	Sample Area Within	a Wetland?	NO
Wetland Hydrology Remarks:	Present?		NO						
HYDROLOGY									
Wetland Hydrology	Indicator						Socondary Indicator	s (minimum of t	wo roquirod)
, ,,			ed; check all that apply)				Secondary Indicator Surface Soil Cr.		wo requirea)
Surface Water		or one is require	Water-Stained Leav	ros (BO)		-		. ,	
High Water Ta			Aquatic Fauna (B13				Drainage Patte Moss Trim Line		
Saturation (A3			Marl Deposits (B13)				Dry-Season Wa		
Water Marks (			Hydrogen Sulfide O				Crayfish Burro		
Sediment Dep			Oxidized Rhizosphe		ts (C3)			ble on Aerial (C9)	
Drift Deposits			Presence of Reduce		()			essed Plants (D1)	
Algal Mat or C	rust (B4)		Recent Iron Reducti	on in Tilled Soils	(C6)		Geomorphic Po	osition (D2)	
Iron Deposits (	(B5)		Thin Muck Surface (	(C7)			Shallow Aquita	ard (D3)	
Inundation Vis	ible on Aer	ial (B7)	Other (Explain in Re	marks)			Microtopogran	ohic Relief (D4)	
Sparsely Veget	tated Conc	ave Surface (B8)					FAC-Neutral Te	est (D5)	
Field Observations:									
Surface Water Prese	ent?		Depth (inches)	:					
Water Table Presen	t?		Depth (inches)	:		Wetland	d Hydrology Present?		NO
Saturation Present?	)		Depth (inches)	:					
Remarks: SOIL									
Profile Description:	(Describe	to the depth ne	eded to document the in	dicator or conf	irm the a	bsence of in	dicators.)		
Depth	Matrix		Re	dox Features					
(in) Color (	moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Re	marks
0-2 10YR		100					SANDY LOAM		
2-14 2.5y		100					SANDY LOAM		
14-17 2.5y	5/2	100					SANDY LOAM		
¹ Type: C=Concentration.	D=Depletion	. RM=Reduced Matr	rix, MS=Masked Sand Grains.				² Location: PL=Pore Lining	. M=Matrix.	
	•	,					Indicators for Proble		.1_3
Hydric Soil Indicator	13.						indicators for Proble	ematic <u>Hydric</u> So	IIS :
Histosol (A1)			Polyvalue B	elow Surface (S8)	) (LRR R <i>,</i>		2 cm Muck (A1	lo) (LRR K, L, MLRA	. 149B)
Histic Epipedo			MLRA 149	•				edox (A16) (LRR K,	
Black <u>Histic</u> (A:	'			urface (S9) (LRR F		49B)		eat or Peat (S3) (LF	R K, L, R)
Hydrogen Sulfi				ky Mineral (F1) (l	LRR K, L)			S9) (LRR K, L, M)	
Stratified Laye	. ,	. ()		ed Matrix (F2)				w Surface (S8) (LR	R K, L)
Depleted Below		race (A11)	Depleted M					ace (S9) (LRR K, L)	ים ו עם פו
Thick Dark Sur		1		Surface (F6)				se Masses (F12) (L	
Sandy Mucky I Sandy Gleyed		J	Redox Depr	ark Surface (F7)				dplain Soils (F19) ( TA6) (MLRA 144A,	
Sandy Redox (			nedox Depr	C3310113 (F0)			Red Parent Ma		173, 1730]
Stripped Matri			3,,	ndicators of hydr	onhytic ye	getation and		Dark Surface (TF12	,
Dark Surface (		MLRA 149B)		land hydrology n		-	Other (Explain		'
Sank sanace (.	/ (=1111 11)		wei			problematic.		Action Raj	
Restrictive Layer (if	observed)	:		ui3					
Type:	,						Hydric	Soil Present?	NO
Depth (inches):									
Remarks:							•		

Tree Stratum (Plot size:	)	Absolute % Cover	Dom. Sp?	Indicator Status	Dominance Test Worksheet:		
1		70 00101			# Dominants OBL, FACW, FAC:	1	(A)
					-		_ ` `
					# Dominants across all strata:	2	_ (B)
<b>C</b>					% Dominants OBL, FACW, FAC:	50%	— ^(A/B)
-					Prevalence Index Worksheet:		
		_	= Total	Cover	Total % Cover of:	Multiply By	:
Sapling Stratum (Plot size:	15' RAD )				OBL <b>15</b> x 1 =	15	
1.					<u>FACW</u> <u>x</u> 2 =		
					FAC 35 x 3 =	105	_
					FACU x 4 =	140	_
					UPL x 5 =	260	— (В)
					- Sum(A)	200	<b>–</b> (b)
_					Prevalence Index = B/A =	3.06	_
Claude Chartery (District	15' DAD \		= Total	Cover	Hydrophytic Vegetation Indicators	S:	
Shrub Stratum (Plot size:  1.	<b>15' RAD</b> )				Dominance Test is > 50% Prevalence Index is <= 3.0		
2					Problematic Hydrophytic V	egetation1 (e	xplain)
					Rapid Test for Hydrophytic		
4					Morphological Adaptations	S	
F					¹ Indicators of <u>hydric</u> soil and wetland hydro	ology must be p	resent,
					unless disturbed or problematic.		
7			= Total	Cover	Definitions of Vegetation Strata:		
Herb Stratum (Plot size:	5' RAD )		- 10tai	Cover	Tree - Woody plants, excluding woody vin	nes, approximat	ely 20ft
1. Rubus idaeus		35	х	FACU	(6m) or more in height and 3in (7.6cm) or l		
<ol><li>Solidago rugosa</li></ol>		35	<u> x</u>	FAC	breast height (DBH).		
3. Calamagrostis canadensis	5	35 15	<u>x</u>	FAC OBL			
<ul><li>3. <u>Calamagrostis</u> canadensis</li><li>4.</li></ul>	5	15	<u>x</u>		Sapling - Woody plants, excluding woody		
3. Calamagrostis canadensis 4. 5.		15	<u>x</u>				
Calamagrostis canadensis     4.		15	<u>x</u>		Sapling - Woody plants, excluding woody		
3. Calamagrostis canadensis 4. 5. 6.		15	x		Sapling - Woody plants, excluding woody	Bin (7.6cm) DBH	
3. Calamagrostis canadensis 4. 5. 6. 7.		15			Sapling - Woody plants, excluding woody 20ft (6m) or more in height and less than 3	Bin (7.6cm) DBH	
3. Calamagrostis canadensis 4. 5. 6. 7. 8. 9.		15			Sapling - Woody plants, excluding woody 20ft (6m) or more in height and less than 3  Shrub - Woody plants, excluding woody v 20ft (1 to 6m) in height.	Bin (7.6cm) DBH.	ately 3 to
3. Calamagrostis canadensis 4. 5. 6. 7. 8. 9. 10.		15	x		Sapling - Woody plants, excluding woody 20ft (6m) or more in height and less than 3  Shrub - Woody plants, excluding woody v 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants	Bin (7.6cm) DBH vines, approxim	ately 3 to
3. Calamagrostis canadensis 4. 5. 6. 7. 8. 9.		15		OBL	Sapling - Woody plants, excluding woody 20ft (6m) or more in height and less than 3  Shrub - Woody plants, excluding woody v 20ft (1 to 6m) in height.	in (7.6cm) DBH vines, approxim s, including her lants, except wo	ately 3 to
3. Calamagrostis canadensis 4. 5. 6. 7. 8. 9. 10. 11.		15		OBL	Sapling - Woody plants, excluding woody 20ft (6m) or more in height and less than 3  Shrub - Woody plants, excluding woody v 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants vines, regardless of size. Includes woody plants woody plants woody plants of size.	in (7.6cm) DBH vines, approxim s, including her lants, except wo	ately 3 to
3. Calamagrostis canadensis 4. 5. 6. 7. 8. 9. 10. 11.		15		OBL	Sapling - Woody plants, excluding woody 20ft (6m) or more in height and less than 3  Shrub - Woody plants, excluding woody v 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants vines, regardless of size. Includes woody plants woody plants woody plants of size.	in (7.6cm) DBH vines, approxim s, including her lants, except wo	ately 3 to
3. Calamagrostis canadensis 4. 5. 6. 7. 8. 9. 10. 11. 12. Woody Vines (Plot size:		15		OBL	Sapling - Woody plants, excluding woody 20ft (6m) or more in height and less than 3  Shrub - Woody plants, excluding woody v 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plants vines, regardless of size. Includes woody plants woody plants woody plants of size.	Sin (7.6cm) DBH vines, approxim s, including herl lants, except wo	ately 3 to
3. Calamagrostis canadensis 4. 5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size: 1. 2. 3.		15		OBL	Sapling - Woody plants, excluding woody 20ft (6m) or more in height and less than 3  Shrub - Woody plants, excluding woody 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plant vines, regardless of size. Includes woody plant vines, less than approximately 3ft (1m) in h	Sin (7.6cm) DBH vines, approxim s, including herl lants, except wo	ately 3 to
3. Calamagrostis canadensis 4. 5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size: 1. 2. 3. 4.		15		OBL	Sapling - Woody plants, excluding woody 20ft (6m) or more in height and less than 3  Shrub - Woody plants, excluding woody 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plant vines, regardless of size. Includes woody pl vines, less than approximately 3ft (1m) in he woody vine - All woody vines, regardle	Sin (7.6cm) DBH vines, approxim s, including herl lants, except wo	ately 3 to
3. Calamagrostis canadensis 4. 5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size: 1. 2. 3.		15	= Total	OBL	Sapling - Woody plants, excluding woody 20ft (6m) or more in height and less than 3  Shrub - Woody plants, excluding woody 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plant vines, regardless of size. Includes woody plant vines, less than approximately 3ft (1m) in how woody vines, less than approximately 3ft (1m) in how woody vine - All woody vines, regardless than approximately 3ft (2m) in how woody vine - All woody vines, regardless than approximately 3ft (2m) in how woody vine - All woody vines, regardless than approximately 3ft (2m) in how woody vines, regardless than approximately 3ft (2m) in how woody vines, regardless than 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and 3 and	in (7.6cm) DBH vines, approxim s, including her lants, except wo height.	ately 3 to
3. Calamagrostis canadensis 4. 5. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size: 1. 2. 3. 4.		15		OBL	Sapling - Woody plants, excluding woody 20ft (6m) or more in height and less than 3  Shrub - Woody plants, excluding woody 20ft (1 to 6m) in height.  Herb - All herbaceous (non-woody) plant vines, regardless of size. Includes woody pl vines, less than approximately 3ft (1m) in he woody vine - All woody vines, regardle	Sin (7.6cm) DBH vines, approxim s, including herl lants, except wo	ately 3 to
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## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

2022-HI-8-Wet

Project Site:	K42			City/County:	Highgat	e /Franklin		Samp. Date: 5/3	19/2022
Applicant/Owner:	Velco			_ city, county.	State:	Vermont	Sampling Point:		II-8-Wet
Investigator(s):	LK			Section	ı, Townsl	nip, Range:	Highgate		
Landform (hillslope, te		Terrace		Local relief	(concave,	convex, none):	Concave	Slope (%):	25-60
Subregion (LRR or		LRR <u>R</u>	Lat	44.923613		Long:	-73.057800	Datum:	NAD 83
Soil Map Unit:		loamy fine sand				416		NWI Class:	PEM
			typical for this time of your	ear <u>?</u>	Yes	(If no, e	xplain in Remarks.)		Van
Are Vegetation, Soil Are Vegetation, Soil								rcumstances? xplain any answe	Yes
Are vegetation, son	i, or riyard	logy flaturally p	Toblematic: 140					Apiairi arry arrawc	13 III Kemarks.
SUMMARY OF	FINDING	iS - Attach si	ite map showing sai	mple point	location	is transe	cts, important fea	atures etc.	
Hydrophytic Vegeta			YES	mpie pomie	T	15) (141150	cts) iiiiportaire rec		
Hydric Soil Present?			YES			Is This	Sample Area Within	a Wetland?	YES
Wetland Hydrology			YES						
Remarks:					-				
HYDROLOGY									
Wetland Hydrology							Secondary Indicator	•	vo required)
· · ·		of one is require	ed; check all that apply)				Surface Soil Cr		
Surface Water			Water-Stained Leav				Drainage Patte		
X High Water Ta X Saturation (A3			Aquatic Fauna (B13 Marl Deposits (B13)				Moss Trim Line Dry-Season W		
Water Marks (			Hydrogen Sulfide O				Crayfish Burro		
Sediment Dep			X Oxidized Rhizosphe		ots (C3)			ible on Aerial (C9)	
Drift Deposits			Presence of Reduce		` '		Stunted or Str	essed Plants (D1)	
Algal Mat or C	rust (B4)		Recent Iron Reduct	ion in Tilled Soils	(C6)		Geomorphic P	osition (D2)	
Iron Deposits (			Thin Muck Surface	(C7)			Shallow Aquita	ard (D3)	
Inundation Vis			Other (Explain in Re	emarks)				ohic Relief (D4)	
Sparsely Veget	tated Conca	ave Surface (B8)					FAC-Neutral T	est (D5)	
Field Observations:									
Surface Water Prese			Depth (inches)						
Water Table Presen Saturation Present?		<u>X</u>	Depth (inches)			Wetlan	d Hydrology Present?	_	YES
		<u>X</u>	Depth (inches) toring well, aerial photos		+:\				
	•		85" for the week endin		• • • • • • • • • • • • • • • • • • • •		`		
1.02 Of Kalli III ti	ne 5 uays	prior, PDSI 0.	os for the week endin	ig iii 3/20/22i	lear non	iliai (NOAA	,		
Remarks:									
iverilariks.									
COII									
SOIL Profile Description:	(Describe	to the denth ne	eded to document the in	dicator or conf	firm the a	heanca of in	dicators )		
Depth Description:	Matrix			dox Features	iii iii tiie o	bacilice of it	dicators.		
(in) Color (		%	Color (moist)	%	Type ¹	Loc ²	Texture	Rei	marks
0-8 10yr		90	10YR 3/6	10	- ', pc	m	SANDY LOAM	- <u></u>	nans
8-16 2.5y		97	10YR 3/6		С	m	SANDY LOAM		
¹Type: C=Concentration	D=Depletion	RM=Reduced Mate	rix, MS=Masked Sand Grains.				² Location: PL=Pore Lining	M=Matrix	
	•	, mir medded man	The Masked Salid Grains:						3
Hydric Soil Indicator	rs:						Indicators for Proble	ematic <u>Hydric</u> Soi	Is ⁻ :
Histosol (A1)				elow Surface (S8	) (LRR R,			10) (LRR K, L, MLRA	
Histic Epipedo			MLRA 149					Redox (A16) (LRR K,	
Black Histic (A	'			urface (S9) (LRR I		19B)		eat or Peat (S3) (LR	R K, L, R)
Hydrogen Sulf Stratified Lave				ky Mineral (F1) (	LKK K, L)			S9) (LRR K, L, M)	B K 1)
Depleted Belo	. ,	face (A11)	Depleted M	ed Matrix (F2)				ow Surface (S8) (LRF ace (S9) (LRR K, L)	( N, L)
Thick Dark Sur		ace (AII)		Surface (F6)				se Masses (F12) (LF	RR K. I. R)
Sandy Mucky I		)		ark Surface (F7)				odplain Soils (F19) (I	
Sandy Gleyed			Redox Depr					TA6) (MLRA 144A,	·
Sandy Redox (				•			Red Parent Ma		
Stripped Matr	ix (S6)		³  1	ndicators of <u>hydr</u>	ophytic ve	getation and	Very Shallow [	Dark Surface (TF12)	
Dark Surface (	S7) (LRR R,	MLRA 149B)	wet	tland hydrology r	must be pr	esent, unless	Other (Explain	in Remarks)	
				dis	sturbed or	problematic.	T		
Restrictive Layer (if	observed)	:						C 11 D -	
Type:							Hydric	Soil Present?	YES
Depth (inches): Remarks:							Ļ		

		Absoluto	Dom	Indicator	T		
Tree Stratum (Plot size:	)	Absolute % Cover	Dom. Sp?	Indicator Status	Dominance Test Worksheet:		
1.	··		<u> </u>		# Dominants OBL, FACW, FAC:	6	(A)
					# Dominants across all strata:	6	— ^(B)
_		· ·			% Dominants OBL, FACW, FAC:	100%	(A/B)
					% DUMINIANTS ODE, LACTO, LAC.	10070	— (A, 5,
		· · ·			Prevalence Index Worksheet:		
			= Tota	Cover	Total % Cover of:	Multiply By	<u>/:</u>
Sapling Stratum (Plot size:	15' RAD)				OBL 83 x 1 = FACW 15 x 2 =	83	_
_					FACW 15 x 2 = FAC 15 x 3 =	45	_
3.					FACU x 4 =		_
					<u>UPL</u> <u>x</u> 5 =		_
C					Sum:(A)	158	(B)
7					Prevalence Index = B/A =	1.40	
/·					Trevalence mack		_
			= Tota	l <u>Cover</u>	Hydrophytic Vegetation Indicator	rs:	
Shrub Stratum (Plot size:					<u>X</u> <u>Dominance</u> Test is > 50%		
_					Prevalence Index is <= 3.0  Problematic Hydrophytic V	_	ovaloia)
_					Rapid Test for Hydrophyti		
4					Morphological Adaptation		
5					¹ Indicators of <u>hydric</u> soil and wetland hyd	rology must be p	present,
					unless disturbed or problematic.		
7			= Tota	Cover	Definitions of Vegetation Strata:		
Herb Stratum (Plot size:					Tree - Woody plants, excluding woody v	ines, approxima	tely 20ft
1. Calamagrostis canado	ensis		X	OBL	(6m) or more in height and 3in (7.6cm) or breast height (DBH).	larger in diame	ter at
2. Solidago rugosa			<u> </u>	FAC	breast neight (2 2).		
Carex scabrata     Dryopteris cristata		<u>15</u> 15	<u> </u>	OBL OBL	Sapling - Woody plants, excluding wood	dv vines, approx	imately
5. Equisetum sylvaticum	n		$\frac{\lambda}{x}$	FACW	20ft (6m) or more in height and less than		
6. Carex diandra		15	Х	OBL			
7. <u>Galium palustre</u>		3		OBL			
8. 9.					Shrub - Woody plants, excluding woody 20ft (1 to 6m) in height.	vines, approxin	nately 3 to
10					, -		
11.					Herb - All herbaceous (non-woody) plan	-	
12.					vines, regardless of size. Includes woody vines, less than approximately 3ft (1m) in		oody
Woody Vines (Plot size:	1	113	= Tota	l Cover		Ü	
1.	,						
2.					Woody vine - All woody vines, regard	less of height.	
3.							
4. 5.					Hydrophytic Vegetation		
j.			= Tota		Present?	YES	
		-		• *************************************			_
Remarks: (If observed, list morp	phological adaptations be	elow).					

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

2022-HI-6-up

Project	Site	K42			Ci	ity/County:	Highgat	e /Franklin		Samp. Date: 5/1	9/2022
,	nt/Owner:	Velco			— "	-	State:	Vermont	Sampling Point:	2022-H	II-6-up
Investig	ator(s):	RMS				Section	, Townsl	nip, Range:	Highgate		•
Landfor	m (hillslope, te	errace, etc.):	Terrace			Local relief	(concave, o	convex, none):	Convex	Slope (%):	0-3
Subregi	on (LRR or	MLRA):	LRR R	<u>La</u>	լ <u>է։</u> _∠	44.9294		Long:	-73.054565	Datum:	NAD 83
Soil Ma		***************************************	loamy fine sand							NWI Class:	Upland
				ypical for this time of y	/ear	?	Yes	(If no, ex	kplain in Remarks.)		
_			ogy significantly							cumstances?	Yes
Are Veg	etation, Soil	, or Hydrolo	ogy naturally pro	oblematic? <u>No</u>					_ (If needed, e	xplain any answer	s in Remarks.)
CLIVAN	AADV OE	EINIDING	C Attach cit	o man chawing co	mn	ala naint l	ocation	as transo	ets important for	sturos etc	
	hytic Vegeta			e map showing sa	ıπ	ле роппст	ocatioi	is, transet	is, important rea	itures, etc.	
***************************************	Soil Present?		-	NO NO				le Thic 9	Sample Area Within	a Wotland?	NO
			-	NO NO				15 11115	Sample Area Within	a wellanu:	<u> </u>
Remarl	d Hydrology	Presents		NU			<u> </u>				
ricinari											
HYDR	OLOGY										
	d Hydrology		_						Secondary Indicator	· ·	o required)
			f one is required	d; check all that apply)				•	Surface Soil Cr	acks (B6)	
_	Surface Water		_	Water-Stained Lea		(B9)			Drainage Patte		
	ligh Water Ta		_	Aquatic Fauna (B1					Moss Trim Line		
	Saturation (A3	-	_	Marl Deposits (B13					Dry-Season W		
	Water Marks (		_	Hydrogen Sulfide (			(00)		Crayfish Burro	• •	
	ediment Dep		-	Oxidized Rhizosphe		-	ts (C3)			ble on Aerial (C9)	
	Orift Deposits		-	Presence of Reduc			(CC)			essed Plants (D1)	
	Algal Mat or C ron Deposits (		-	Recent Iron Reduct Thin Muck Surface			(C6)		Geomorphic P		
	nundation Vis		L(B7) -	Other (Explain in R					Shallow Aquita Microtopograp		
			ve Surface (B8)	Other (Explain in it	cina	ii K3)			FAC-Neutral To		
	servations:							ı			
	Water Prese	ent?		Depth (inches	s):						
	able Presen			Depth (inches	· -			Wetland	Hydrology Present?		NO
	ion Present?			Depth (inches	′ –				,,		
Remark	s:										
SOIL											
	Description:	(Describe to	o the depth nee	ded to document the i			irm the a	bsence of in	dicators.)		
Depth		Matrix		<u>B</u>	ledo	<u>x</u> Features					
(in)	Color (	moist)	%	Color (moist)		%	Type ¹	Loc²	Texture	Ren	narks
0-5 5-7	10YF	R 3/2	100						SANDY CLAY LOAM SANDY LOAM		
7-14	10YR		95	10YR 6/6		5	<del></del>		SANDY LOAM		
				20111 07 0			<u> </u>				
					_ :						
1- 0									2,		
, · ·		' '	RM=Reduced Matrix	, MS=Masked Sand Grains.					² Location: PL=Pore Lining		2
Hydric S	Soil Indicator	rs:							Indicators for Proble	ematic <u>Hydric</u> Soil	s³:
L	listosol (A1)			Polyvalue !	Belov	w Surface (S8)	(LRR R,		2 cm Muck (A1	.0) (LRR K, L, MLRA 1	L49B)
	Histic Epipedo	<u>n</u> (A2)		MLRA 14	19B)				Coast Prairie B	edox (A16) (LRR K, L	., R)
	Black <u>Histic</u> (A					ice (S9) (LRR R		19B)	5 cm Mucky Pe	eat or Peat (S3) (LRR	K, L, R)
	Hydrogen Sulf			Loamy Mu	cky N	Mineral (F1) (L	.RR K, L)		Dark Surface (	59) (LRR K, L, M)	
	stratified Laye			Loamy Gle						w Surface (S8) (LRR	K, L)
	Depleted Belo		ce (A11)	Depleted N						ace (S9) (LRR K, L)	
_	hick Dark Sur			Redox Darl						se Masses (F12) (LR	
	andy Mucky I					Surface (F7)				dplain Soils (F19) (N	
_	Sandy Gleved			Redox Dep	ressi	ions (F8)				TA6) (MLRA 144A, 1	45, 149B)
	andy <u>Redox</u> (			2					Red Parent Ma		
	tripped Matri		U DA 1405)			cators of hydro		-		Park Surface (TF12)	
<u> </u>	Dark Surface (	57) (LKK K, M	ILKA 1498)	We	etlan	d hydrology m			Other (Explain	ın kemarks)	
Restrict	ive Layer (if	observed).				aist	urped or	problematic.			
	Type:								Hydric	Soil Present?	NO
Dep	oth (inches):										
Remark	s:										

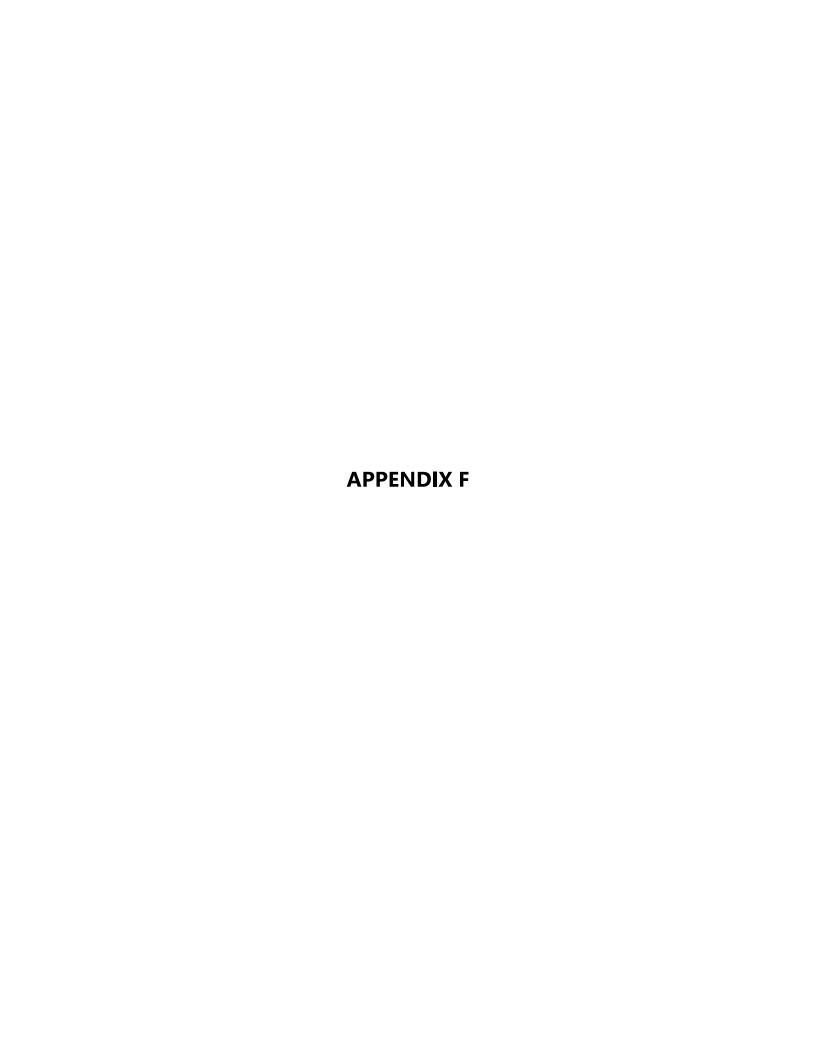
	Absolute	Dom.	Indicator	Γ
Tree Stratum (Plot size:)	% Cover	Sp?	Status	Dominance Test Worksheet:
1.				# Dominants OBL, FACW, FAC: 2 (A)
2.				
3				# Dominants across all strata: <b>5</b> (B)
4.				
5.				% Dominants OBL, FACW, FAC:40% (A/B)
6.				
7				Prevalence Index Worksheet:
		= Total	Cover	Total % Cover of: Multiply By:
Sapling Stratum (Plot size: 15' RAD )				OBL x 1 =
1				FACW 3 x 2 = 6
2				FAC 13.5 x 3 = 40.5
3				FACU <u>51.5</u> x 4 = <u>206</u>
4				<u>UPLx</u> 5 =
5				Sum: <u>68</u> (A) <u>252.5</u> (B)
6				
7				Prevalence Index = B/A = 3.71
at the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se		= Total	Cover	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size: 15' RAD )				Dominance Test is > 50%
				Prevalence Index is <= 3.0
2				Problematic <u>Hydrophytic</u> Vegetation ¹ (explain)
3				Rapid Test for Hydrophytic Vegetation
4				Morphological Adaptations
5				¹ Indicators of <u>hydric</u> soil and wetland hydrology must be present,
6				unless disturbed or problematic.
7				Definitions of Vegetation Strata:
		= Total	Cover	
Herb Stratum (Plot size: 5' RAD )				Tree - Woody plants, excluding woody vines, approximately 20ft (6m) or more in height and 3in (7.6cm) or larger in diameter at
1. Pteridium aquilinum	20.5	<u> </u>	FACU	breast height (DBH).
2. Onoclea sensibilis	3	<u>X</u>	FACW	
3. Solidago canadensis	10.5	x	FACU	
Solidago rugosa	10.5	X	FAC	Sapling - Woody plants, excluding woody vines, approximately
5. Parthenocissus quinquefolia	20.5	x	FACU	20ft (6m) or more in height and less than 3in (7.6cm) DBH.
6. Heracleum mantegazzianum	3		FAC	
7.				
8				Shrub - Woody plants, excluding woody vines, approximately 3 to 20ft (1 to 6m) in height.
9				Zort (I to onl) in height.
10				L
11.				Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody
12				vines, less than approximately 3ft (1m) in height.
	68	= Total	Cover	
Woody Vines (Plot size:)				
1.				Washing an a second
2.				Woody vine - All woody vines, regardless of height.
3.	. ———			I hadaa ahaada
4				Hydrophytic
5				Vegetation
		= Total	cover	Present? NO
Describe (If the month link or contributed to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state o				<u>l</u>
Remarks: (If observed, list morphological adaptations below).				

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

2022-HI-6-Wet

Project Site:	K42		(	City/County:	Highgate	g /Franklin		Samp. Date: 5/	19/2022
Applicant/Owner:	Velco			_	State:	Vermont	Sampling Point:		II-6-Wet
Investigator(s):	LK			Section		nip, Range:			
Landform (hillslope, to	errace, etc.):	Terrace				onvex, none):	Concave	Slope (%):	0-3
Subregion (LRR or	MLRA):	LRR R	Lat:	44.929326		Long:	-73.054439	Datum:	NAD 83
Soil Map Unit:		loamy fine sand						NWI Class:	PEM
			pical for this time of year?		Yes	(If no, e	kplain in Remarks.)	. 2	
Are Vegetation, Soi								rcumstances?	Yes
Are Vegetation, Soi	i, or Hydroid	gy naturally proi	blematic? <u>No</u>				(If needed, explain a	any answers in K	emarks.)
SLIMMARY OF	EINIDINGS	. Attach site	man chowing camn	le noint loc	rations	transact	s, important features,	otc	
Hydrophytic Vegeta			YES	ic point loc	I	, transcet	s, important reatures,		
Hydric Soil Present		-	YES				s This Sample Area Within	a Wetland?	YES
Wetland Hydrology		-	YES				3 This sample Area Within		123
Remarks:			120						
HYDROLOGY									
Wetland Hydrology	Indicators:						Secondary Indicators (mini	imum of two req	uired)
Primary Indicators	(minimum o	f one is required	; check all that apply)				Surface Soil Cracks (B		,
X Surface Wate	r (A1)	_	Water-Stained Leaves	(B9)			Drainage Patterns (B1	.0)	
High Water Ta	able (A2)	_	Aquatic Fauna (B13)				Moss Trim Lines (B16)	)	
X Saturation (A		_	Marl Deposits (B13)				Dry-Season Water Tal		
Water Marks		_	Hydrogen Sulfide Odo				Crayfish Burrows (C8)		
Sediment Dep		_	X Oxidized Rhizospheres	-	s (C3)		Saturation Visible on		
Drift Deposits		_	Presence of Reduced I		CC)		Stunted or Stressed P		
Algal Mat or 0		-	Recent Iron Reduction Thin Muck Surface (C7		C6)		Geomorphic Position Shallow Aguitard (D3)		
Inundation Vi		I (B7)	Other (Explain in Rema				Microtopographic Rel		
		e Surface (B8)		,			FAC-Neutral Test (D5)		
Field Observations:							<del></del>		
Surface Water Pres		х	Depth (inches):	1					
Water Table Preser	nt?		Depth (inches):			V	Vetland Hydrology Present?		YES
Saturation Present	?		Depth (inches):						
			Depth (menes).						
Describe Recorded	Data (strear	n gauge, monito	ring well, aerial photos, pr	evious inspect	tions), if a	vailable:			
	,				,.				
	,		ring well, aerial photos, pr		,.				
	,		ring well, aerial photos, pr		,.				
1.02" of Rain in t	,		ring well, aerial photos, pr		,.				
1.02" of Rain in t	,		ring well, aerial photos, pr		,.				
1.02" of Rain in t	,		ring well, aerial photos, pr		,.				
1.02" of Rain in the Remarks:	the 5 days _l	orior; PDSI 0.85	ring well, aerial photos, pro	in 5/20/22nd	ear norn	nal (NOAA)			
1.02" of Rain in the Remarks:  SOIL  Profile Description:	the 5 days p	orior; PDSI 0.85	ring well, aerial photos, pro " for the week ending i	in 5/20/22nd	ear norn	nal (NOAA)			
1.02" of Rain in the Remarks:  SOIL  Profile Description: Depth	(Describe to Matrix	orior; PDSI 0.85	ring well, aerial photos, pro " for the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in	in 5/20/22nd	ear norn	nal (NOAA)	ators.)		
Remarks:  SOIL  Profile Description: Depth (in) Color	(Describe to Matrix (moist)	o the depth need	ring well, aerial photos, pro " for the week ending i	in 5/20/22nd	ear norn	nal (NOAA)	ators.) Texture	Re	marks
Remarks:  SOIL  Profile Description: Depth (in) Color 5y	(Describe to Matrix (moist)	orior; PDSI 0.85	ring well, aerial photos, pro " for the week ending in ed to document the indicate Red Color (moist)	in 5/20/22nd	ear norn	nal (NOAA)	ators.)	Re	marks
Remarks:  SOIL  Profile Description: Depth (in) Color 5y	(Describe to Matrix (moist)	o the depth need	ring well, aerial photos, pro " for the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in	in 5/20/22nd	n the abs	ence of indic	ators.)  Texture  SILT LOAM	Re	marks
Remarks:  SOIL  Profile Description: Depth (in) Color 5y	(Describe to Matrix (moist)	o the depth need	ring well, aerial photos, pro " for the week ending in ed to document the indicate Red Color (moist)	in 5/20/22nd	n the abs	ence of indic	ators.)  Texture  SILT LOAM	Re	marks
Remarks:  SOIL  Profile Description: Depth (in) Color 5y	(Describe to Matrix (moist)	o the depth need	ring well, aerial photos, pro " for the week ending in ed to document the indicate Red Color (moist)	in 5/20/22nd	n the abs	ence of indic	ators.)  Texture  SILT LOAM	Re	marks
Remarks:  SOIL  Profile Description: Depth (in) 0-5 5-16 Sy	(Describe to Matrix (moist) 3/2 5/1	o the depth need    War   100   95   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	ring well, aerial photos, pro " for the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week en	in 5/20/22nd	n the abs	ence of indic	ators.)  Texture  SILT LOAM  SANDY LOAM		marks
Remarks:  SOIL  Profile Description: Depth (in) Color 0-5 5y 5-16 5y	(Describe to Matrix (moist) 3/2 5/1	o the depth need    War   100   95   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	ring well, aerial photos, pro " for the week ending in ed to document the indicate Red Color (moist)	in 5/20/22nd	n the abs	ence of indic	Texture SILT LOAM SANDY LOAM	trix.	marks
Remarks:  SOIL  Profile Description: Depth (in) 0-5 5-16 Sy	(Describe to Matrix (moist) 3/2 5/1	o the depth need    War   100   95   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	ring well, aerial photos, pro " for the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week en	in 5/20/22nd	n the abs	ence of indic	ators.)  Texture  SILT LOAM  SANDY LOAM	trix.	marks
Remarks:  SOIL  Profile Description: Depth (in) Color 0-5 5y 5-16 5y	(Describe to Matrix (moist) 3/2 5/1	o the depth need    War   100   95   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	ring well, aerial photos, prosection of the week ending is seen to document the indicance of the color (moist)  10yr 4/6  MS=Masked Sand Grains.	in 5/20/22nd	n the abso	ence of indic	Texture SILT LOAM SANDY LOAM	trix. Hydric Soils ³ :	marks
Remarks:  SOIL  Profile Description: Depth (in) Color 0-5 5y 5-16 5y  Type: C=Concentration, Hydric Soil Indicato	(Describe to Matrix (moist) 3/2 5/1	o the depth need    War   100   95   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	ring well, aerial photos, profile of the week ending is seed to document the indicated of the color (moist)  10yr 4/6  MS=Masked Sand Grains.  Polyvalue Beld MLRA 1498)	otor or confirm  OX Features  %  5	n the abs	ence of indic	Texture SILT LOAM SANDY LOAM  **Location: PL=Pore Lining, M=Mail Indicators for Problematic	trix. Hydric Soils ³ : . K, L, MLRA 149B)	marks
1.02" of Rain in the Remarks:  SOIL  Profile Description: Depth (in) Color 0-5 5y 5-16 5y  1-Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipeds Black Histic (A)	(Describe to Matrix (moist) 3/2 5/1 D=Depletion, Fors:	o the depth need    War   100   95   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	ring well, aerial photos, prosections of the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in	ator or confirm ox Features % 5	n the absortion the absortion the absortion the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the also the absortion that are also the absortion that are also the absortion that are also the  ence of indic	Texture SILT LOAM SANDY LOAM	trix. Hydric Soils ³ : I. K., MLRA 149B) A16) (LRR K, L, R) eat (S3) (LRR K, L, L,		
1.02" of Rain in the Remarks:  SOIL  Profile Description: Depth (in) Color 0-5 5y 5-16 5y	(Describe to Matrix (moist) 3/2 5/1 Dependence on (A2) A3) fide (A4)	o the depth need    War   100   95   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	ring well, aerial photos, prost of the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week ending in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in the week end in th	stor or confirm ox Features % 5 5 ww Surface (S8) Lace (S9) (LRR R, Mineral (F1) (Li	n the absortion the absortion the absortion the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the also the absortion that are also the absortion that are also the absortion that are also the  ence of indic	Texture SILT LOAM SANDY LOAM	trix. Hydric Soils ³ : LK, L, MLRA 149B) A16) (LRR K, L, R) eat (S3) (LRR K, L, F		
1.02" of Rain in the Remarks:  SOIL  Profile Description: Depth (in) Color 0-5 5y 5-16 5y	(Describe to Matrix (moist) 3/2 5/1	the depth need    Washington	ed to document the indica Red Color (moist)  10yr 4/6  MS=Masked Sand Grains.  Polyvalue Belo MLRA 1498) Thin Dark Surf Loamy Mucky Loamy Gleved	stor or confirm ox Features % 5  sw Surface (S8) Ace (S9) (LRR R, Mineral (F1) (Li Matrix (F2)	n the absortion the absortion the absortion the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the also the absortion that are also the absortion that are also the absortion that are also the  ence of indic	Texture  SILT LOAM SANDY LOAM	trix.  Hydric Soils ³ :  K, L, MLRA 149B)  A16) (LRR K, L, R) eat (S3) (LRR K, L, I  R K, L, M) ace (S8) (LRR K, L)		
1.02" of Rain in the Remarks:  SOIL  Profile Description: Depth (in) Color 0-5 5y 5-16 5y	(Describe to Matrix (moist) 3/2 5/1	the depth need    Washington	ed to document the indica Redu Color (moist)  10yr 4/6  MS=Masked Sand Grains.  Polyvalue Belo MLRA 1498) Thin Dark Surf Loamy Mucky Loamy Gleved X Depleted Matr	stor or confirm ox Features % 5 5 www Surface (S8) lace (S9) (LRR R, Mineral (F1) (Lf R) Matrix (F2) rix (F3)	n the absortion the absortion the absortion the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the also the absortion that are also the absortion that are also the absortion that are also the  ence of indic	ators.)  Texture  SILT LOAM  SANDY LOAM   *Location: PL=Pore Lining, M=Mat  Indicators for Problematic  2 cm Muck (A10) (LRR  Coast Prairie Redox (A  5 cm Mucky Peat or P  Dark Surface (S9) (LRR  Polyvalue Below Surface  Thin Dark Surface (S9)	trix.  Hydric Soils ³ :  K, L, MLRA 149B)  A16) (LRR K, L, R) eat (S3) (LRR K, L, I  R K, L, M) ace (S8) (LRR K, L)	3)	
SOIL Profile Description: Depth (in) Color 0-5 5y 5-16 5y	(Describe to Matrix (moist) 3/2 5/1	the depth need    Washington	ed to document the indica Red Color (moist)  10yr 4/6  MS=Masked Sand Grains.  Polyvalue Beld Marka 1498) Thin Dark Surf Loamy Mucky Loamy Gleved X Depleted Mate Redox Dark Su	in 5/20/22nd intor or confirm ox Features % 5  www Surface (S8) ace (S9) (LRR R, Mineral (F1) (Lf Matrix (F2) rix (F3) rface (F6)	n the absortion the absortion the absortion the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the also the absortion that are also the absortion that are also the absortion that are also the  ence of indic	ators.)  Texture  SILT LOAM  SANDY LOAM	trix.  Hydric Soils ³ :  K, L, MLRA 149B)  A16) (LRR K, L, R) eat (S3) (LRR K, L, I  R K, L, M) ace (S8) (LRR K, L) ) (LRR K, L) ses (F12) (LRR K, L)	R)	
SOIL Profile Description: Depth (in) Color 0-5 5y 5-16 5y	(Describe to Matrix (moist) 3/2 5/1	the depth need    Washington	ed to document the indica  Red  Color (moist)  10yr 4/6  MS=Masked Sand Grains.  Polyvalue Belo MLRA 149B) Thin Dark Surf Loamy Mucky Loamy Micky Loamy Gleyed Medo Dark Su Depleted Dark	in 5/20/22nd intor or confirm ox Features % 5  ww Surface (S8) ace (S9) (LRR R, Mineral (F1) (Lf Matrix (F2) rix (F3) rface (F6) Surface (F7)	n the absortion the absortion the absortion the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the also the absortion that are also the absortion that are also the absortion that are also the  ence of indic	ators.)  Texture  SILT LOAM  SANDY LOAM	trix.  Hydric Soils ³ :  K, L, MLRA 149B) A16) (LRR K, L, R) eat (S3) (LRR K, L, J ace (S8) (LRR K, L) (LRR K, L) (LRR K, L) Ses (F12) (LRR K, L, Soils (F19) (MLRA 1	R) R) 49B)	
SOIL Profile Description: Depth (in) Color 0-5 5y 5-16 5y	(Describe to Matrix (moist) 3/2 5/1	the depth need    Washington	ed to document the indica Red Color (moist)  10yr 4/6  MS=Masked Sand Grains.  Polyvalue Beld Marka 1498) Thin Dark Surf Loamy Mucky Loamy Gleved X Depleted Mate Redox Dark Su	in 5/20/22nd intor or confirm ox Features % 5  ww Surface (S8) ace (S9) (LRR R, Mineral (F1) (Lf Matrix (F2) rix (F3) rface (F6) Surface (F7)	n the absortion the absortion the absortion the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the absortion to the absortion that are also the also the absortion that are also the absortion that are also the absortion that are also the  ence of indic	ators.)  Texture  SILT LOAM  SANDY LOAM	trix.  Hydric Soils ³ :  K, L, MLRA 149B)  A16) (LRR K, L, R) eat (S3) (LRR K, L, I ace (S8) (LRR K, L) (LRR K, L) (LRR K, L) ses (F12) (LRR K, L, Soils (F19) (MLRA 1	R) R) 49B)	
SOIL Profile Description: Depth (in) Color 0-5 5y 5-16 5y  Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipeds Black Histic (A Hydrogen Sul Stratified Lay Depleted Belo Thick Dark Su Sandy Mucky Sandy Gleved	(Describe to Matrix (moist) 3/2 5/1 Depeletion, Fors:  20. (A2) (A3) fide (A4) eres (A5) ow Dark Surfarface (A12) Mineral (S1) Matrix (S4) (S5)	the depth need    Washington	ed to document the indica Red Color (moist)  10yr 4/6  MS=Masked Sand Grains.  Polyvalue Belo MLRA 1498) Thin Dark Surf Loamy Mucky Loamy Gleyed X Depleted Mati Redox Dark Su Depleted Dark Redox Depress	in 5/20/22nd intor or confirm ox Features % 5  ww Surface (S8) ace (S9) (LRR R, Mineral (F1) (Lf Matrix (F2) rix (F3) rface (F6) Surface (F7)	n the absort c	ence of indic	ators.)  Texture  SILT LOAM  SANDY LOAM   **Location: PL=Pore Lining, M=Mat  Indicators for Problematic  2 cm Muck (A10) (LRR  Coast Prairie Redox (A  5 cm Mucky Peat or P  Dark Surface (S9) (LRF  Polyvalue Below Surfa  Thin Dark Surface (S9)  Iron-Manganese Mass  Piedmont Floodplain to Mesic Spodic (TA6) (Mesic Spodic (Mesic Spodic (TA6) (Mesic Spodic (TA6) (Mesic Spodic (TA6) (Mesi	trix.  Hydric Soils ³ :  K, L, MLRA 149B) A16) (LRR K, L, R) eat (S3) (LRR K, L, I) ace (S8) (LRR K, L) (LRR K, L) (LRR K, L) Ses (F12) (LRR K, L, Soils (F19) (MLRA 144A, 145, 14	R) R) 49B)
1.02" of Rain in the Remarks:  SOIL  Profile Description: Depth (in) Color O-5 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5y 5-16 5	(Describe to Matrix (moist) 3/2 5/1 Depeletion, Fors:  an (A2) (A3) fide (A4) ers (A5) ow Dark Surfarface (A12) Mineral (S1) Matrix (S4) (S5) rix (S6)	the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where	ed to document the indica  Red  Color (moist)  10yr 4/6  MS=Masked Sand Grains.  Polyvalue Belo MLRA 1498) Thin Dark Surf Loamy Mucky Loamy Gleved X Depleted Matt Redox Dark Su Depleted Dark Redox Depress	in 5/20/22nd intor or confirm ox Features % 5  w Surface (S8) lace (S9) (LRR R, Mineral (F1) (LF Matrix (F2) rix (F3) rface (F6) Surface (F7) sions (F8)	n the absort Type ¹ c (LRR R, , MLRA 14: RR K, L)	ence of indic	ators.)  Texture  SILT LOAM  SANDY LOAM   **Location: PL=Pore Lining, M=Mai*  Indicators for Problematic  2 cm Muck (A10) (LRR  Coast Prairie Redox (A*)  5 cm Mucky Peat or P  Dark Surface (S9) (LRF  Polyvalue Below Surfa  Thin Dark Surface (S9)  Iron-Manganese Mass  Piedmont Floodplain:  Mesic Spodic (TA6) (M  Red Parent Material (	trix.  Hydric Soils ³ :  K, L, MLRA 149B)  A16) (LRR K, L, R)  eat (S3) (LRR K, L, I)  CLRR K, L)  (LRR K, L)  Ses (F12) (LRR K, L, I)  ALRA 144A, 145, 14  F21)  fface (TF12)	R) R) 49B)
1.02" of Rain in the Remarks:  SOIL  Profile Description: Depth (in) Color O-5 Sy 5-16 Sy  1-Type: C=Concentration, Hydric Soil Indicato Histosol (A1) Histic Epipeds Black Histic (A Hydrogen Sul Stratified Layl Depleted Beld Thick Dark Su Sandy Mucky Sandy Mucky Sandy Gleyed Sandy Redox Stripped Mati Dark Surface	(Describe to Matrix (moist) 3/2 5/1 Dependence of Matrix (moist) 3/2 5/1 Dependence of Matrix (moist) Matrix (moist) Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist) Dependence of Matrix (moist)	the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where	ed to document the indica  Red  Color (moist)  10yr 4/6  MS=Masked Sand Grains.  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1.02" of Rain in the Remarks:  SOIL  Profile Description: Depth (in) Color 0-5 5y 5-16 5y	(Describe to Matrix (moist) 3/2 5/1 Dependence of Matrix (moist) 3/2 5/1 Dependence of Matrix (moist) 3/2 5/1 Dependence of Matrix (moist) 3/2 5/1 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matrix (moist) 2/2 Dependence of Matr	the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where	ed to document the indica  Red  Color (moist)  10yr 4/6  MS=Masked Sand Grains.  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SOIL Profile Description: Depth (in) Color 0-5 5y 5-16 5y	(Describe to Matrix (moist) 3/2 5/1	the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where	ed to document the indica  Red  Color (moist)  10yr 4/6  MS=Masked Sand Grains.  Polyvalue Belo MLRA 1498) Thin Dark Surf Loamy Mucky Loamy Gleved X Depleted Matt Redox Dark Su Depleted Dark Redox Depress	in 5/20/22nd intor or confirm ox Features % 5  w Surface (S8) ace (S9) (LRR R, Mineral (F1) (Li Matrix (F2) rix (F3) rface (F6) Surface (F7) sions (F8)	n the absolute of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	ence of indic	ators.)  Texture  SILT LOAM  SANDY LOAM   **Location: PL=Pore Lining, M=Mat  Indicators for Problematic  2 cm Muck (A10) (LRR  Coast Prairie Redox (A  5 cm Mucky Peat or P  Dark Surface (S9) (LRF  Polyvalue Below Surfa  Thin Dark Surface (S9)  Iron-Manganese Mass  Piedmont Floodplain :  Mesic Spodic (TA6) (N  Red Parent Material (  Very Shallow Dark Sur  Other (Explain in Rem	trix.  Hydric Soils ³ :  K, L, MLRA 149B)  A16) (LRR K, L, R)  eat (S3) (LRR K, L, I)  CLRR K, L)  (LRR K, L)  Ses (F12) (LRR K, L, I)  ALRA 144A, 145, 14  F21)  fface (TF12)	R) R) 49B)
1.02" of Rain in the Remarks:  SOIL  Profile Description: Depth (in) Color 0-5 5y 5-16 5y	(Describe to Matrix (moist) 3/2 5/1	the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where the depth need  where	ed to document the indica  Red  Color (moist)  10yr 4/6  MS=Masked Sand Grains.  Polyvalue Belo MLRA 1498) Thin Dark Surf Loamy Mucky Loamy Gleved X Depleted Matt Redox Dark Su Depleted Dark Redox Depress	in 5/20/22nd intor or confirm ox Features % 5  w Surface (S8) ace (S9) (LRR R, Mineral (F1) (Li Matrix (F2) rix (F3) rface (F6) Surface (F7) sions (F8)	n the absolute of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	ence of indic	ators.)  Texture  SILT LOAM  SANDY LOAM   **Location: PL=Pore Lining, M=Mat  Indicators for Problematic  2 cm Muck (A10) (LRR  Coast Prairie Redox (A  5 cm Mucky Peat or P  Dark Surface (S9) (LRF  Polyvalue Below Surfa  Thin Dark Surface (S9)  Iron-Manganese Mass  Piedmont Floodplain :  Mesic Spodic (TA6) (N  Red Parent Material (  Very Shallow Dark Sur  Other (Explain in Rem	trix.  Hydric Soils ³ :  K, L, MLRA 149B) A16) (LRR K, L, R) eat (S3) (LRR K, L, I) R K, L, M) ace (S8) (LRR K, L) ) (LRR K, L) Ses (F12) (LRR K, L, L) Soils (F19) (MLRA 1 A14AA, 145, 14 F21) fface (TF12) arks)	R) 49B)

	Absolute	Dom. Indicate	or	
Tree Stratum (Plot size:)	% Cover	Sp? Status	Dominance Test Worksheet:	
1.			# Dominants OBL, FACW, FAC:	<b>1</b> (A)
2.				
3.			# Dominants across all strata:	<b>1</b> (B)
4.			_	``
5			—   % Dominants OBL, FACW, FAC:	<b>100</b> % (A/B)
6			— No Bollinants ODE, FACW, FAC.	(A/B)
7			Prevalence Index Worksheet:	
· .		- Total Cover	Total % Cover of:	Multiply Dyn
Couling Chartery (District 151 DAD		= Total <u>Cover</u>		Multiply By:
Sapling Stratum (Plot size: 15' RAD )			OBL 5 x 1 =	5
1.			FACW x 2 =	260
2			FAC x 3 =	
3			FACU x 4 =	
4			UPL <b>5</b> x 5 =	25
5			Sum:(A)	<b>290</b> (B)
6.				
7.			Prevalence Index = B/A =	2.07
		T . 10		
Shrub Stratum (Plot size: <b>15' RAD</b> )		= Total <u>Cover</u>	Hydrophytic Vegetation Indicators:	
			X Dominance Test is > 50%	
1.			<u>X</u> Prevalence Index is <= 3.0	1
2.			Problematic <u>Hydrophytic</u> Vegeta	
3			Rapid Test for <u>Hydrophytic</u> Vege	etation
4			Morphological Adaptations	
5			Indicators of <u>hydric</u> soil and wetland hydrology n	nust be present, unless
6			disturbed or problematic.	
7			Definitions of Vegetation Strata:	
		= Total Cover		
Herb Stratum (Plot size: 5' RAD )			Tree - Woody plants, excluding woody vines, app	proximately 20ft (6m) or
1. Phalaris arundinacea	95	X FACW	more in height and 3in (7.6cm) or larger in diame	ter at breast height (DBH).
			· 1	
2. Onoclea sensibilis		FACW	<b></b>	
2. Onoclea sensibilis	20		<u>.                                    </u>	
<ul><li>2. Onoclea sensibilis</li><li>3. Thelypteris palustris</li></ul>	15	FACW		, approximately 20ft (6m) or
<ol> <li>Onoclea sensibilis</li> <li>Thelypteris palustris</li> <li>Typha latifolia</li> </ol>		FACW	Sapling - Woody plants, excluding woody vines,	, approximately 20ft (6m) or
2. Onoclea sensibilis 3. Thelypteris palustris 4. Typha latifolia 5. Vicia cracca L.	15 5	FACW FACW OBL	Sapling - Woody plants, excluding woody vines,	, approximately 20ft (6m) or
2. Onoclea sensibilis 3. Thelypteris palustris 4. Typha latifolia 5. Vicia cracca L. 6.	15 5	FACW FACW OBL	Sapling - Woody plants, excluding woody vines,	, approximately 20ft (6m) or
<ol> <li>Onoclea sensibilis</li> <li>Thelypteris palustris</li> <li>Typha latifolia</li> <li>Vicia cracca L.</li> <li>7.</li> </ol>	15 5	FACW FACW OBL	Sapling - Woody plants, excluding woody vines, more in height and less than 3in (7.6cm) DBH.	
2. Onoclea sensibilis 3. Thelypteris palustris 4. Typha latifolia 5. Vicia cracca L. 6. 7. 8.	15 5	FACW FACW OBL	Sapling - Woody plants, excluding woody vines, more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, a	
<ol> <li>Onoclea sensibilis</li> <li>Thelypteris palustris</li> <li>Typha latifolia</li> <li>Vicia cracca L.</li> <li>8.</li> <li>9.</li> </ol>	15 5	FACW FACW OBL	Sapling - Woody plants, excluding woody vines, more in height and less than 3in (7.6cm) DBH.	
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2. Onoclea sensibilis 3. Thelypteris palustris 4. Typha latifolia 5. Vicia cracca L. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:) 1.	15 5 5	FACW FACW OBL UPL	Sapling - Woody plants, excluding woody vines, more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, a 6m) in height.  Herb - All herbaceous (non-woody) plants, incluregardless of size. Includes woody plants, except approximately 3ft (1m) in height.	approximately 3 to 20ft (1 to ding herbaceous vines, woody vines, less than
2. Onoclea sensibilis 3. Thelypteris palustris 4. Typha latifolia 5. Vicia cracca L. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:) 1. 2.	15 5 5	FACW FACW OBL UPL	Sapling - Woody plants, excluding woody vines, more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, a 6m) in height.  Herb - All herbaceous (non-woody) plants, incluregardless of size. Includes woody plants, except approximately 3ft (1m) in height.	approximately 3 to 20ft (1 to ding herbaceous vines, woody vines, less than
2. Onoclea sensibilis 3. Thelypteris palustris 4. Typha latifolia 5. Vicia cracca L. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:) 1. 2. 3.	15 5 5	FACW FACW OBL UPL	Sapling - Woody plants, excluding woody vines, more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, a 6m) in height.  Herb - All herbaceous (non-woody) plants, incluregardless of size. Includes woody plants, except approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of he	approximately 3 to 20ft (1 to ding herbaceous vines, woody vines, less than
2. Onoclea sensibilis 3. Thelypteris palustris 4. Typha latifolia 5. Vicia cracca L. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:) 1. 2. 3. 4.	15 5 5	FACW FACW OBL UPL	Sapling - Woody plants, excluding woody vines, more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, a 6m) in height.  Herb - All herbaceous (non-woody) plants, incluregardless of size. Includes woody plants, except approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of head of the hydrophytic	approximately 3 to 20ft (1 to ding herbaceous vines, woody vines, less than
2. Onoclea sensibilis 3. Thelypteris palustris 4. Typha latifolia 5. Vicia cracca L. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:) 1. 2. 3. 4.	15 5 5	FACW FACW OBL UPL  = Total Cover	Sapling - Woody plants, excluding woody vines, more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, a 6m) in height.  Herb - All herbaceous (non-woody) plants, incluregardless of size. Includes woody plants, except approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of here.  Hydrophytic Vegetation	approximately 3 to 20ft (1 to ding herbaceous vines, woody vines, less than eight.
2. Onoclea sensibilis 3. Thelypteris palustris 4. Typha latifolia 5. Vicia cracca L. 6. 7. 8. 9. 10. 11. 12.  Woody Vines (Plot size:) 1. 2. 3. 4. 5.	15 5 5	FACW FACW OBL UPL  = Total Cover	Sapling - Woody plants, excluding woody vines, more in height and less than 3in (7.6cm) DBH.  Shrub - Woody plants, excluding woody vines, a 6m) in height.  Herb - All herbaceous (non-woody) plants, incluregardless of size. Includes woody plants, except approximately 3ft (1m) in height.  Woody vine - All woody vines, regardless of here.  Hydrophytic Vegetation	approximately 3 to 20ft (1 to ding herbaceous vines, woody vines, less than eight.
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Ambystoma jeffersonianum	Jefferson Salamander	Animal	S2	G4	-	-	2019	Lives in forested areas and breeds in vernal pools.	Found in a mixed hardwood stand in Georgia.	Summer	No	Yes	No	Not a state or federally protected species.
Ammocrypta pellucida	Eastern Sand Darter	Anima <b>l</b>	S1	G4	Т	-	2019	Clean rivers and streams with sandy substrate.	Found in the lower Missisquoi River.	Summer	Yes	Yes	No	No project components located in waterways, no survey recommended.
Anemone multifida var. multifida	Early Thimbleweed	P <b>l</b> ant	S1	G5T5	E	-	1873	High-pH rivershore outcrops; limestone ledges along the Winooski and Ottaquechee Rivers	Found along the Missisquoi River.	Summer (June)	No	Yes	Yes	Species is state Endangered and has been documented on site.
Anodontoides ferussacianus	Cylindrical Papershell	Animal	S1S2	G5	E	-	2020	Lives in small streams with sandy or muddy substrate.	Found in the lower Missisquoi River.	Late Summer	Yes	Yes	No	No project components located in waterways, no survey recommended.
Antrostomus vociferus	Eastern Whip-poor- will	Anima <b>l</b>	S2B	G5	Т	-	2019, 2020	Sparse forests and forest edge near open areas.	Found in agriculture fields in Georgia. As well as several location in Franklin County Airport.	Summer	No	Yes	No	Species is state Threatened but has not been documented on site.
Apalone spinifera	Spiny Softshell (Turtle)	Animal	S1	G5	Т	-	2018	Rivers and streams with soft substrate and high oxygenation.	Found in streams north of St. Albans Bay state park.	Spring-Summer	No	Yes	Yes	Species is state Threatened and has potential habitat on site.
Bartramia longicauda	Upland Sandpiper	Animal	S2B	G5	E	-	2022	open tall grass fields.	From I 89, Exit 21 east on VT 78 approximately 1 mile to Airport Road north, also found in fields on both sides of Rt 207.	Summer	No	Yes	No	Species is state Threatened but has not been documented on site.
Equisetum pratense	Meadow Horsetail	Plant	\$3	G5	-	-	1,987	Meadows, woodlands, riparian forests with rich soils	Highgate Falls, by Power Plant	Spring	No	No	No	Not a state or federally protected species.
Carex atherodes	Awned Sedge	Plant	S1	G5	-	-	2019	Swales and wet meadows (slough sedge)	Found in disturbed areas in St. Albans.	Summer	No	Yes	Yes	Species is rare and has been documented on site.
Carex merritt- fernaldii	Fernald's Sedge	Plant	S1	G5	-	-	2010	Dry rocky or sandy soil or outcrops	Found near a substation in Georgia.	Summer	No	Yes	Yes	Species is very rare and has been documented on site.
Carex typhina	Cat-tai <b>l</b> Sedge	Plant	S2S3	G5	-	-	1992	Floodplain woodlands in western VT	Found near the mouth of the Mill River.	Late Summer	No	Yes	No	Not a state or federally protected species.



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Cottus bairdii	Mottled Sculpin	Anima <b>l</b>	S2	G5	-	-	1998	Gravel or rocky swift flowing streams.	Found in a lakeshore wetland complex on Lake Champlain.	Spring-Summer	No	No	No	Not a state or federal protected species.
Cyperus engelmanni	Engelmann's Flatsedge	Plant	S1S2	G4Q	-	-	2021	Found on pond shores and disturbed muddy areas.	St. Albans Bay	Late Summer- Fall	No	Yes	Yes	Species is rare and ha potential habitat on site.
Esox masquinongy	Muskellunge	Animal	S1	G5	-	-	1981	Lives in a variety of river and lake habitats.	Found near the Swanton dam.	Spring - Summer	No	Yes	No	No project components located waterways, no surve recommended.
Hemidactylium scutatum	Four-toed Salamander	Animal	S2	G5	-	-	2016	Forested habitat near wetlands	Found in a wet meadow in Georgia	Summer	No	Yes	No	Not a state or federal protected species.
Hybognathus hankinsoni	Brassy Minnow	Animal	S2S3	G5	-	-	2006	Lives in various streams and ponds.	Found at various points within Stonebridge Brook.	Summer - Late Summer	Yes	Yes	No	No project components located waterways, no surve recommended.
Hypericum ascyron	Great St. John's- wort	Plant	S2	G4	Т	-	2008	Riparian forests, riverbanks and low fields	Found adjacent to a brook west of a bridge on Rt 207.	Summer	No	Yes	Yes	Species is state Threatened and has potential habitat or site.
Ichthyomyzon unicuspis	Silver Lamprey	Animal	S2	G5	-	-	2016	Lives in large rivers and lakes.	Found at various points within Stonebridge Brook.	Summer- Late Summer	Yes	Yes	No	No project components located waterways, no surve recommended.
Ixobrychus exilis	Least Bittern	Anima <b>l</b>	S2B	G4G5	-	-	1993	They nest in freshwater and brackish marshes with tall aquatic vegetation such as cattails and other reeds and rushes.	Found in emergent wetland at upper reaches of Kelly Brook in Highgate	Spring-Summer	No	Yes	No	Not a state or federa protected species.
Lampsilis ovata	Pocketbook	Anima <b>l</b>	S2	G5	E	-	2020	Lives in large rivers with packed sand and gravel substrate.	Found within the Missisquoi River.	Summer-Late Summer	Yes	Yes	No	No project components located waterways, no surve recommended.
Lasmigona costata	Flutedshell	Anima <b>l</b>	S2	G5	E	-	1998	Lives in medium to large rivers often in riffles.	Found within the Missisquoi River.	Late Summer	Yes	Yes	No	No project components located waterways, no surve recommended.
Leptodea fragilis	Fragile Papershell	Anima <b>l</b>	S2	G5	E	-	2018	Lives in a variety of aquatic habitats.	Found in the St. Albans Bay.	Late Summer	No	Yes	No	No project components located waterways, no surve recommended.



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Lethenteron appendix	American Brook Lamprey	Animal	S1	G4	Т	-	2020	Lives in slow moving warm streams.	Found at various points within Hungerford Brook, Missisquoi River, Youngman Brook.	Summer - Late Summer	Yes	Yes	No	No project components located in waterways, no survey recommended.
Ligumia recta	Black Sandshell	Animal	S1	G4G5	E	-	1998	Lives in riffles and runs of larger rivers or sand bottom lakes.	Found within the Missisquoi River.	Late Summer	Yes	Yes	No	No project components located in waterways, no survey recommended.
Monarda punctata	Dotted Horsemint	Plant	S1	G5	-	-	2020	Found in fields roadsides and clearings.	Found along the north side of a rail trail.	Late Summer	No	Yes	Yes	Species is rare and ha potential habitat on site.
Moxostoma anisurum	Silver Redhorse	Anima <b>l</b>	S2	G5	-	-	2000	Various rivers and lakes.	Found within the Missisquoi River.	Spring - Summer	Yes	Yes	No	No project components located i waterways, no survey recommended.
Moxostoma macrolepidotum	Shorthead Redhorse	Anima <b>l</b>	S2	G5	-	-	2011	Various rivers and lakes.	Found in the lower Missisquoi River.	Spring - Summer	Yes	Yes	No	No project components located waterways, no survey recommended.
Moxostoma valenciennesi	Greater Redhorse	Anima <b>l</b>	S1	G4	-	-	2011	Various rivers and lakes.	Found in the lower Missisquoi River.	Spring - Summer	Yes	Yes	No	No project components located waterways, no survey recommended.
Myotis leibii	Eastern Small- footed Bat	Animal	S1	G4	Т	-	2019	Ground level crevices in tallus slopes.	Found in a woodland near a residential area in St. Albans	Summer	No	Yes	Yes	Species is state Endangered and has potential habitat on site.
Noturus flavus	Stonecat	Animal	S1	G5	E	-	2011	Found in medium to small streams.	Found in a riffle of a stream in Highgate.	Spring - Summer	Yes	Yes	No	No project components located i waterways, no survey recommended.
Platanthera flava var. herbiola	Tubercled Orchid	Plant	S1	G4	Т	-	2019	River shores, usually associated with circumneutral seeps, sandy alluvium, or shrub thickets, rarely in tidal marshes, also in wet fields, meadows, and swamps	Two small patches of woods on either side of Cedar Street where ditched waterway about 300 meters to the east.	Summer-Late Summer	No	Yes	Yes	Species is state Threatened and has potential habitat on site.
Potamilus alatus	Pink Heelsplitter	Animal	S2	G5	E	-	2017	Medium to large rivers with a variety of substrates. Can also adapt to shallow lakes.	Found in St. Albans Bay.	N/A	No	No	No	No project components located i waterways, no survey recommended.
Proserpinaca palustris	Marsh Mermaid- weed	Plant	S2S3	G5	-	-	1995	Shallow, still or slow-moving, basic to circumneutral water of lakes and rivers, ponds shores, swamps, fens, mucky pools	East of I-89, south of Village of Highgate Springs	Summer-Late Summer	No	Yes	No	Not a state or federal protected species.



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	Pyganodon grandis	Giant Floater	Animal	\$2\$3	G5	Т	-	2020	Found in shallow lakes and streams with fine sediment.	Found within the Missisquoi River.	Spring - Summer	Yes	Yes	No	No project components located in waterways, no survey recommended.
e Radius	Ulmus thomasii	Cork Elm	Plant	S1	G5	Т	-	2016	Limestone ledges or rich soils in western VT	Found on a limy ridge in Georgia.	Summer	No	Yes	Yes	Species is state Threatened and has potential habitat on site.
ige: 1-Mil	Thalictrum venulosum	Border Meadow-rue	Plant	S2S3	G5	-	-	2020	lake shores and ice scoured rivers.	At the edge of a driveway on the edge of a floodplain forest.	Summer	No	Yes	No	Not a state or federally protected species.
rrence Rar	Sisyrinchium atlanticum	Eastern Blue-eyed- grass	Plant	S1	G5	-	-	1998	fields, meadows, marsh edges	In sandy field, north side of VT 78, east of I-89 in Swanton.	Spring - Summer	No	Yes	Yes	Species is very rare and has potential habitat on site.
Element Occurrence Range: 1-Mile Radius	Ardea herodias	Great Blue Heron	Animal	S3S4B	G5	-	-	1994	Marshes, swamps, lakeshores, riversides, beaches and ponds; praries and meadows (winter)	Stone Bridge Brook	Spring-Summer	No	No	No	Not a state or federally protected species.
Eler	Cyprinella spiloptera	Spotfin Shiner	Animal	S3S4	G5	-	-	2011	Large creeks, rivers, lakes and reservoirs	Missisquoi River- Lower	Summer - Late Summer	No	No	No	Not a state or federally protected species.
	Eragrostis hypnoides	Creeping Love-grass	Plant	S3	G5	-	-	2021	Moist soils and wet margins, mud flats, sandy shores of streams and rivers	Mill River Mouth	Summer - Fall	No	No	No	Not a state or federally protected species.
	Carex grayi	Gray's Sedge	Plant	S3	G4G5	-	-	1992	Moist soils, floodplain forest, shaded seeps	Mill River Mouth	Summer	No	No	No	Not a state or federally protected species.
	Umbra limi	Central Mudminnow	Animal	S3S4	G5	-	-	1998	Slow-moving rivers and streams, marshy shores	Kelly Brook	Summer - Late Summer	No	No	No	No project components located in waterways, no survey recommended.
	Sagittaria rigida	Sessile-fruited Arrowhead	P <b>l</b> ant	S3	G5	-	-	2021	Lakes, river shores, backwaters and pools; fresh to brackish- tidal rivers	Mill River Mouth	Summer	No	No	No	Not a state or federally protected species.
	Lycopus virginicus	Virginia Bugleweed	Plant	S3	G5	-	-	2021	Moist soil, floodplain forests, along shores and wet meadows	Mill River Mouth	Spring - Summer	No	No	No	Not a state or federally protected species.
	Dichanthelium columbianum	Columbian Rosette- grass	P <b>l</b> ant	S3	G5T5	-	-	1990	Open spaces with thin or sandy soils	, Hungerford Brook	Spring	No	No	No	Not a state or federally protected species.



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Chrosomus neogaeus	Finescale Dace	Animal	S3	G5	-	-	1998	Smaller shallow and narrow streams with sandy substrates; high drainage headwaters	Kelly Brook	Summer - Late Summer	No	No	No	Not a state or federal protected species.
Dichanthelium dichotomum var. dichotomum	Cypress Witchgrass	Plant	\$3	G5T5	-	-	1989	Moist areas, either on peat, sand, silty clay, loam or loamy sand. Wet meadows, marshes, swamps, bogs, streamsides	Missisquoi Crossing, Missisquoi Falls	Spring-Summer	No	No	No	Not a state or federal protected species.
Cyperus squarrosus	Awned Flatsedge	Plant	\$3	G5	-	-	2011	Moist sandy or gravelly disturbed soils, stream banks, pond edges, rocky outcrops	Mill River Mouth	Summer	No	No	No	Not a state or federal protected species.
Carex brevior	Fescue Sedge	Plant	\$3	G5	-	-	2009	Seasonal or permanently saturated soils of fields, swamps, and wetland margins	Rail Trail West, along side- slope of LVRT, northwest of VT-78 east of Highgate Center.	Summer	No	No	No	Not a state or federal protected species.
Ambystoma laterale	Blue-spotted Salamander	Anima <b>l</b>	\$3	G5	-	-	1988	Deciduous hardwood forests, swampy woodlands, wet fields, vernal pools into mid-summer	Mill River Natural Area, northwest corner of Georgia where Mill River empties into Lake Champlain	Spring - Summer	No	No	No	Not a state or federa protected species.
Ranunculus trichophyllus	Northeastern White Water-buttercup	Plant	S3	G5	-	-	1992	Still or slow-moving water of lakes and rivers, circumneutral to basic water	Mi <b>ll</b> River Mouth	Spring - Summer	No	No	No	Not a state or federa protected species.
Ranunculus flabellaris	Yellow Water- buttercup	Plant	S3	G5	-	-	1992	Swamps, ponds, pools, slow streams	Mill River Mouth	Spring - Summer	No	No	No	Not a state or federa protected species.
Anguilla rostrata	American Ee <b>l</b>	Animal	S2	G4	-	-	2013	Freshwater, coastal streams, rivers and estuaries	Stonebridge Brook	Spring - Summer	No	No	No	No project components located waterways, no surve recommended.
Hybognathus regius	Eastern Silvery Minnow	Anima <b>l</b>	S3S4	G5	-	-	1998	Rivers, streams, lakes, tolerant of various water environments	Mill River, east side of St. Albans Bay near mouth	Summer - Late Summer	No	No	No	No project components located waterways, no surve recommended.
Etheostoma flabellare	Fantail Darter	Anima <b>l</b>	S3	G5	-	-	1983	Smaller streams, rivers, fast- flowing rocky waters	Hungerford Brook	Summer	No	No	No	No project components located waterways, no surve recommended.
Alasmidonta undulata	Triangle Floater	Anima <b>l</b>	S3	G4	-	-	2020	Streams, rivers, and lakes, substrates of sand, rock, or gravel	Missisquoi River - Highgate Dam to Swanton Dam	Summer - Fall	No	No	No	No project components located waterways, no surve recommended.
Opheodrys vernalis	Smooth Greensnake	Animal	S3	G5	-	-	2018	Moist meadows and woodlands, often adjacent to water sources and areas of dense low vegetation	Sodom Road - Georgia	Spring - Summer	No	No	No	Not a state or federa protected species.
Bombus rufocinctus	Red-belted Bumble Bee	Animal	\$3	G5	-	-	2013	Open areas, prairies and meadows with wooded margins	Stone Bridge Brook, unnamed tributary east of Brook and Miltonboro	Spring	No	No	No	Not a state or federa protected species.



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Notropis rubellus	Rosyface Shiner	Anima <b>l</b>	S3	G5	-	-	2011	Rivers, streams, lakes	Missisquoi River - Lower	Summer - Late Summer	No	No	No	Not a state or federally protected species.
Strophitus undulatus	Creeper	Animal	\$3	G5	-	-	2020	Woodlands, shaded groves, mature mixed woods	Missisquoi River - Highgate Dam to Swanton Dam	Summer	No	No	No	Not a state or federally protected species.
Elymus wiegandii	Wild-rye	P <b>l</b> ant	\$3	G4G5	-	-	1992	Mesic-wet upland forests, prairies, glades, ledges and bluffs, river and stream banks	Highgate Falls Islands	Spring - Summer	No	No	No	Not a state or federally protected species.
Margariscus margarita	Allegheny Pearl Dace	Animal	\$3	G5	-	-	2011	Lakes, ponds, rivers, usually on substrates of sand or gravel; generally in clear waters	Lower Missisquoi River	Summer - Late Summer	No	No	No	No project components located in waterways, no survey recommended.
Drymocallis argute	Tall Cinquefoil	Plant	S3	G5	-	-	2009	Prairies, wooded edges in shade	Highgate Center Railroad	Summer	No	No	No	Not a state or federally protected species.
Symphyotrichum ontarionis	Ontario Aster	Plant	\$2\$3	G5	-	-	2021	Open areas of floodplain forest.	Adjacent to a path to the shore of Lake Champlain in Georgia, and near the delta of the Mill River.	Summer- Late Summer	No	No	No	Not a state or federally protected species.
Cottus bairdii	Mottled Sculpin	Animal	S2	G5	-	-	2021	Small gravel bottom streams or rocky shorelines of lakes.	In Lake Champlain east of the islands.	N/A	No	No	No	No project components located in waterways, no survey recommended.
Hackelia deflexa ssp. americana	Nodding Stickseed	Plant	S2	G5T5	Т	-	2000	Rocky forest and cliff bases.	Along a calcareous bluff along Lake Champlain.	Summer -Late Summer	No	Yes	Yes	Species is state Threatened and has potential habitat on site.
Calystegia spithamaea ssp. spithamaea	Low Bindweed	P <b>l</b> ant	S2	G4G5T4T5	Т	-	2020	Sandy, open areas or areas with disturbance.	On North side of LVRT circa 1000 feet east of VT-78 just south of Pine Haven Road.	Summer	No	Yes	No	Not a state or federally protected species.
Scutellaria parvula	Small Skullcap	P <b>l</b> ant	S2	G4T4	-	-	2000	Woodlands, balds, river bank, often with thin soil over bedrock.	Found along railroad tracks in Highgate.	Spring - Summer	No	Yes	No	Not a state or federally protected species.
Schoenoplectus heterochaetus	Slender Bulrush	P <b>l</b> ant	S2	G5	-	-	2021	Shallow waters, or wet river and lake shores.	Found near the delta of the Mill River.	Summer- Late Summer	No	Yes	No	Not a state or federally protected species.
Cyperus erythrorhizos	Red-root Flatsedge	Plant	\$2\$3	G5	-	-	2022	Mesic to hydric shorelines and wet areas.	Southeast side of small deltaic penninsula between Deep Bulrush Marsh and Deep Broadleaf Marsh.	Late summer- Fall	No	Yes	No	Not a state or federally protected species.

#### Vermont Potential Rare, Threatened, and Endangered Species and Natural Communities in the Project Region and Onsite Habitats Summary

Client: Vermont Electric Power Company ("VELCO") Project: VELCO K42 Franklin County Line Upgrade

Prepared by: VHB (K.Maines, C. Peterson) October 20, 2023

Survey Date: May-August, 2023



														Survey F	Recommended?
Species	Common Name	Туре	State Rank	Global Rank	Vermont Status	Federal Status	EO last Observed	Habitat Description ¹	Occurrence Description ²	Optima <b>l</b> Survey Time ³	EO Mapped within Study Area?	Potential for Habitat to Occur Onsite?	(yes/no)	Comments	
Deep Bulr	rush Marsh	Natural Community	S4	-	-	-	2021	Open water areas with bullrush often on lake shores or backwaters of slow rivers.	Found near the delta of the Mill River.	Summer-Fall	No	No	No	No potential habitat on site.	
Deep Broa	ndleaf Marsh	Natural Community	S4	-	-	-	2021	Open water areas with often on pond and lake shores or backwaters of slow rivers.	Found near the delta of the Mill River.	Summer-Fall	No	No	No	No potential habitat on site.	
Limestone Bluff (	Cedar-Pine Forest	Natural Community	S2	-	-	-	1992	Outcrops of limestone, shale or dolostone bluffs or outcrops	Found on the shore of Lake Champlain.	Summer-Fall	No	Yes	Yes	Check rocky forested areas, especially near Lake Champlain	
Lakeside F <b>l</b> oc	odplain Forest	Natural Community	S3	-	-	-	1992	Former lake coves, in complexes of marshes and swamps at the mouths of rivers and streams	Found on the shore of Lake Champlain.	Summer-Fall	No	Yes	Yes	Check lakeside areas Study area.	
	thern White Cedar ramp	Natural Community	\$3	-	-	-	1996	Floodplains of larger rivers on calcareous bedrock or isolated basins on calcareous bedrock.	Found in a quarry swamp in Swanton.	Summer-Fall	No	Yes	Yes	Check forested, low gradient areas or basins with softwood in Study Area.	
	rich Fern Floodplain orest	Natural Community	\$3	-	-	-	1992	Behind the natural levees of low to moderate grade portions of large rivers.	Found on islands in the Missisquoi River.	Summer-Fall	No	Yes	Yes	Check floodplain area associated with large rivers in Study Area.	

¹Potential sources for habitat description listed below

Ahles, Harry E. and Magee, Dennis W. 2007. Flora of the Northeast. A Manual of the Vascular Flora of New England and Adjacent New York Animal Diversity Web. Retrieved from: https://animaldiversity.org/accounts

Cornell Lab of Ornithology Bird Guide. Retrieved from: https://www.allaboutbirds.org/guide/

Gilman, Arthur V. 2015. New Flora of Vermont. The New York Botanical Garden.

Gleason, Henry A. and Cronquist, Arthur. 1991. Manual of Vascular Plants of Northeaster United States and Adjacent Canada. The New York Botanical Garden.

Haines, Arthur. 2011. Flora Novae Angliae. New England Wildflower Society/Yale University Press, New Haven, CT. 973 Pp.

Langdon, Richard W., Ferguson, Mark T. and Cox, Kenneth M. 2006. Fishes of Vermont. Vermont Department of Fish and Wildlife.

Newcomb, Lawrence. 1977. Newcomb's Wildflower Guide . Little, Brown, and Company, Boston

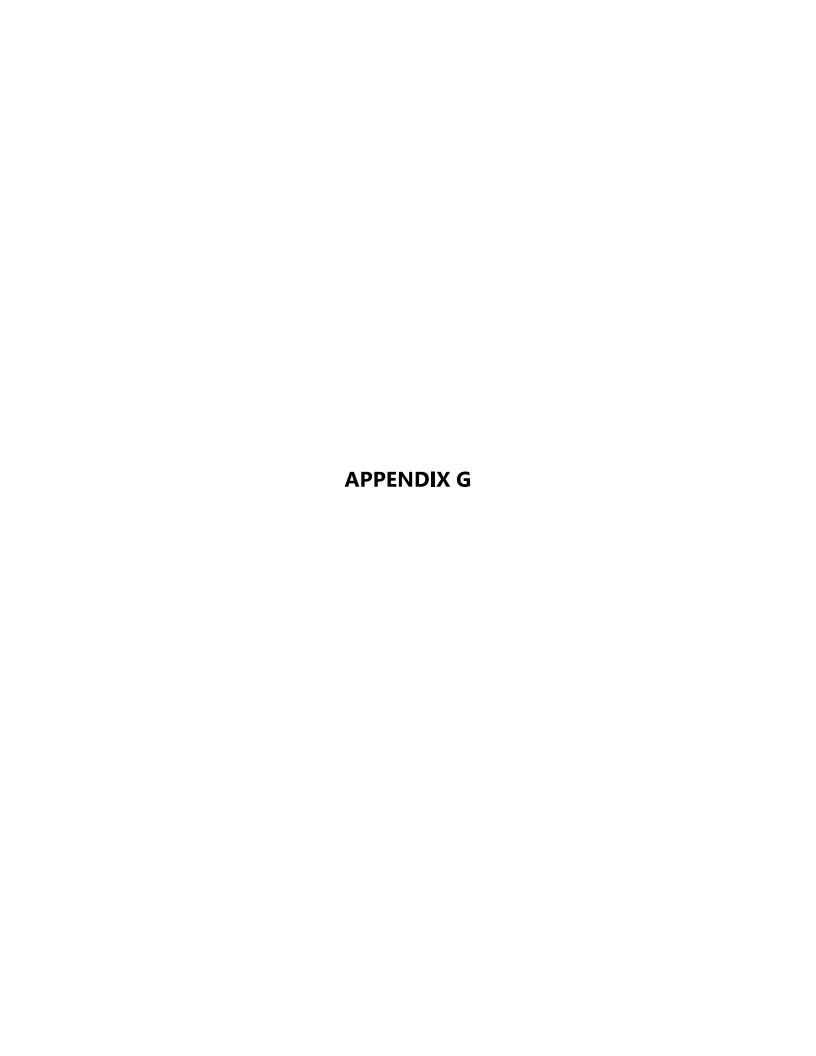
Northern Prairie Wildlife Research Center. http://www.npwrcusgs.gov/resource/distr/insect/sligb/uss/49.htm Seymour, Frank Conliding, 1982. The floar of New England. 2d ed. Phytologia Memoirs 2 Plainfield, NJ: Harold N. Moldenke and Alma L. Moldenke. 611 p. [7604] Thompson, Elicabeth H., Sorenon, Eric R. and Zeine, Robert J. 2019. Wetland, Woodand, Wildland. 4 Guide to the Natural Communities of Vermont. Vermont Department of Fish and Wildlife and The Nature Conservancy.

Vermont Natural Resources Atlas, Accessed August 2023. Element Occurrence Reports

²Sources for occurrence description listed below:

Vermont Natural Heritage Inventory - Vermont Fish & Wildlife Department - Element Occurrence Reports.

3Flowering Time: Spring (April-May), Summer (June-July), Late Summer (August-September), Fall (October-November)





# United States Department of the Interior



### FISH AND WILDLIFE SERVICE

New England Ecological Services Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5094 Phone: (603) 223-2541 Fax: (603) 223-0104

In Reply Refer To: October 17, 2023

Project Code: 2023-0056518

Project Name: VELCO FCLU Line Rebuild Project

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

*Updated* 4/12/2023 - *Please review this letter each time you request an Official Species List, we will continue to update it with additional information and links to websites may change.* 

## **About Official Species Lists**

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Federal and non-Federal project proponents have responsibilities under the Act to consider effects on listed species.

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested by returning to an existing project's page in IPaC.

## **Endangered Species Act Project Review**

Please visit the "New England Field Office Endangered Species Project Review and Consultation" website for step-by-step instructions on how to consider effects on listed

species and prepare and submit a project review package if necessary:

https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review

*NOTE* Please <u>do not</u> use the **Consultation Package Builder** tool in IPaC except in specific situations following coordination with our office. Please follow the project review guidance on our website instead and reference your **Project Code** in all correspondence.

**Northern Long-eared Bat - (Updated 4/12/2023)** The Service published a final rule to reclassify the northern long-eared bat (NLEB) as endangered on November 30, 2022. The final rule went into effect on March 31, 2023. You may utilize the **Northern Long-eared Bat Rangewide Determination Key** available in IPaC. More information about this Determination Key and the Interim Consultation Framework are available on the northern long-eared bat species page:

## https://www.fws.gov/species/northern-long-eared-bat-myotis-septentrionalis

For projects that previously utilized the 4(d) Determination Key, the change in the species' status may trigger the need to re-initiate consultation for any actions that are not completed and for which the Federal action agency retains discretion once the new listing determination becomes effective. If your project was not completed by March 31, 2023, and may result in incidental take of NLEB, please reach out to our office at <a href="mailto:newengland@fws.gov">newengland@fws.gov</a> to see if reinitiation is necessary.

### Additional Info About Section 7 of the Act

Under section 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to determine whether projects may affect threatened and endangered species and/or designated critical habitat. If a Federal agency, or its non-Federal representative, determines that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Federal agency also may need to consider proposed species and proposed critical habitat in the consultation. 50 CFR 402.14(c)(1) specifies the information required for consultation under the Act regardless of the format of the evaluation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

### https://www.fws.gov/service/section-7-consultations

In addition to consultation requirements under Section 7(a)(2) of the ESA, please note that under sections 7(a)(1) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species. Please contact NEFO if you would like more information.

**Candidate species** that appear on the enclosed species list have no current protections under the ESA. The species' occurrence on an official species list does not convey a requirement to

consider impacts to this species as you would a proposed, threatened, or endangered species. The ESA does not provide for interagency consultations on candidate species under section 7, however, the Service recommends that all project proponents incorporate measures into projects to benefit candidate species and their habitats wherever possible.

## **Migratory Birds**

In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see:

https://www.fws.gov/program/migratory-bird-permit

https://www.fws.gov/library/collections/bald-and-golden-eagle-management

Please feel free to contact us at **newengland@fws.gov** with your **Project Code** in the subject line if you need more information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat.

Attachment(s): Official Species List

Attachment(s):

Official Species List

## OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5094 (603) 223-2541

## **PROJECT SUMMARY**

Project Code: 2023-0056518

Project Name: VELCO FCLU Line Rebuild Project
Project Type: Utility Infrastructure Maintenance

Project Description: VELCO Franklin County line rebuild project that extends throughout

Georgia, Saint Albans Town, Swanton, Highgate, Vermont.

## **Project Location:**

The approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@44.8261943,-73.11450266361163,14z">https://www.google.com/maps/@44.8261943,-73.11450266361163,14z</a>



Counties: Franklin County, Vermont

## **ENDANGERED SPECIES ACT SPECIES**

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## **MAMMALS**

NAME STATUS

Northern Long-eared Bat *Myotis septentrionalis* 

Endangered

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>

### **INSECTS**

NAME

Monarch Butterfly *Danaus plexippus* 

Candidate

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>

### CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

## **IPAC USER CONTACT INFORMATION**

Agency: VHB

Name: Kaitlyn Maines Address: 40 IDX Drive

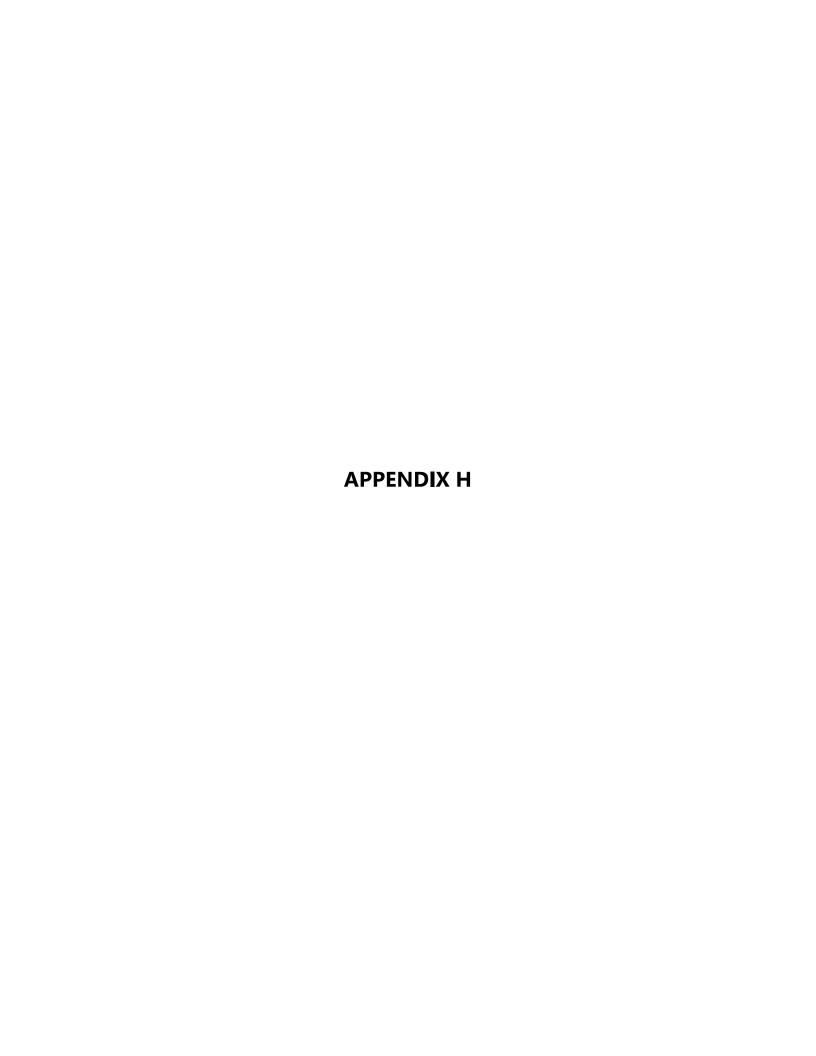
Address Line 2: Building 100, Suite 200

City: South Burlington

State: VT Zip: 05403

Email kmaines@vhb.com

Phone: 8024976189





**Project:** Franklin County Line Upgrade Project **Client:** Vermont Electric Power Company ("VELCO")

**Location**: Georgia to Highgate, Vermont

Survey Date(s): May-September 2022, July-August 2023 (L. Keszey, M.Jackman, C. Fenner, K. Maines)

Scientific Name ¹	Common Name	Family	Vermont Rarity Rank ²	Non-Native Invasive Species ³
Achillea millefolium L.	common yarrow	Asteraceae		
Acer negundo L.	boxelder	Aceraceae		
Actaea pachypoda Elliott	white baneberry	Ranunculaceae		
Acer pensylvanicum L.	striped maple	Aceraceae		
Acalypha rhomboidea Raf.	common threeseed mercury	Euphorbiaceae		
Acer rubrum L.	red maple	Aceraceae		
Actaea rubra (Aiton) Willd.	red baneberry	Ranunculaceae		
Acer pensylvanicum L.	striped maple	Aceraceae		
Acer rubrum L.	red maple	Aceraceae		
Acer saccharum Marshall	sugar maple	Aceraceae		
Acer spicatum Lam.	mountain maple	Aceraceae		
Adiantum pedatum L.	northern maidenhair	Pteridaceae		
Ageratina altissima (L.) R.M. King & H. Rob.	white snakeroot	Asteraceae		
Agrostemma githago L.	common corncockle	Caryophyllaceae		
Agrostis gigantea Roth	redtop	Poaceae		
Agrimonia gryposepala Wallr.	tall hairy agrimony	Rosaceae		
Agrostis hyemalis (Walter) Britton, Sterns & Poggenb.	winter bentgrass	Poaceae		
Agrostis scabra Willd.	rough bentgrass	Poaceae		
Agrimonia striata Michx.	roadside agrimony	Rosaceae		
Allium tricoccum Aiton	ramp	Liliaceae		
Ambrosia artemisiifolia L.	annual ragweed	Asteraceae		
Amphicarpaea bracteata (L.) Fernald	American hogpeanut	Fabaceae		
Anemone canadensis L.	Canadian anemone	Ranunculaceae		
Antennaria neglecta Greene	field pussytoes	Asteraceae		
Apios americana Medik.	groundnut	Fabaceae		
Apocynum androsaemifolium L.	spreading dogbane	Apocynaceae		
Apocynum cannabinum L.	Indianhemp	Apocynaceae		
Aquilegia canadensis L.	red columbine	Ranunculaceae		
Arctium minus Bernh.	lesser burdock	Asteraceae		
Arisaema triphyllum (L.) Schott	Jack in the pulpit	Araceae		
Artemisia vulgaris L.	common wormwood	Asteraceae		
Asarum canadense L.	Canadian wildginger	Aristolochiaceae		
Asclepias incarnata L.	swamp milkweed	Asclepiadaceae		
Asplenium platyneuron (L.) Britton, Sterns & Poggenb.	ebony spleenwort	Aspleniaceae		
Asclepias syriaca L.	common milkweed	Asclepiadaceae		
Athyrium filix-femina (L.) Roth	common ladyfern	Dryopteridaceae		
Betula papyrifera Marshall	paper birch	Betulaceae		
Betula alleghaniensis Britton	yellow birch	Betulaceae		
Betula populifolia Marshall	gray birch	Betulaceae		
Bidens frondosa L.	devil's beggartick	Asteraceae		
Bromus inermis Leyss.	smooth brome	Poaceae		
Brassica nigra (L.) W.D.J. Koch	black mustard	Brassicaceae		
Carya cordiformis (Wangenh.) K. Koch	bitternut hickory	Juglandaceae		
Carex merritt-fernaldii Mack.	Fernald's sedge	Cyperaceae	S1	



**Project:** Franklin County Line Upgrade Project **Client:** Vermont Electric Power Company ("VELCO")

**Location**: Georgia to Highgate, Vermont

Survey Date(s): May-September 2022, July-August 2023 (L. Keszey, M.Jackman, C. Fenner, K. Maines)

Scientific Name ¹	Common Name	Family	Vermont Rarity Rank ²	Non-Native Invasive Species ³
Carex gracillima Schwein.	graceful sedge	Cyperaceae		
Carex pallescens L.	pale sedge	Cyperaceae		
Carex pensylvanica Lam.	Pennsylvania sedge	Cyperaceae		
Carex plantaginea Lam.	plantainleaf sedge	Cyperaceae		
Campanula rotundifolia L.	bluebell bellflower	Campanulaceae		
Calystegia spithamaea (L.) Pursh	low false bindweed	Convolvulaceae	S2 (T)	
Calystegia sepium (L.) R. Br.	hedge false bindweed	Convolvulaceae		
Centaurea nigra L.	lesser knapweed	Asteraceae		
Celastrus orbiculatus Thunb.	Oriental bittersweet	Celastraceae		В
Centaurea stoebe L.	spotted knapweed	Asteraceae		WL
Chelone glabra L.	white turtlehead	Scrophulariaceae		
Chenopodium pratericola Rydb.	desert goosefoot	Chenopodiaceae		
Circaea alpina L.	small enchanter's nightshade	Onagraceae		
Cirsium arvense (L.) Scop.	Canada thistle	Asteraceae		
Cichorium intybus L.	chicory	Asteraceae		
Clematis virginiana L.	devil's darning needles	Ranunculaceae		
Clinopodium vulgare L.	wild basil	Lamiaceae		
Cornus alternifolia L. f.	alternateleaf dogwood	Cornaceae		
Cornus amomum Mill.	silky dogwood	Cornaceae		
Cornus sericea L.	redosier dogwood	Cornaceae		
Cystopteris bulbifera (L.) Bernh.	bulblet bladderfern	Dryopteridaceae		
Cystopteris fragilis (L.) Bernh.	brittle bladderfern	Dryopteridaceae		
Cystopteris tenuis	Mackay's Fragile Fern	Woodsiacaea		
Cyperus houghtonii Torr.	Houghton's flatsedge	Cyperaceae	S2 (T)	
Cyperus lupulinus (Spreng.) Marcks	Great Plains flatsedge	Cyperaceae	32 (1)	
Daucus carota L.	Oueen Anne's lace	Apiaceae		
	***************************************	Poaceae		
Dactylis glomerata L.  Danthonia spicata (L.) P. Beauv. ex Roem. & Schult.	orchardgrass	Poaceae		
Desmodium canadense (L.) P. Beauv. ex Roem. & Schall.	poverty oatgrass showy ticktrefoil	Fabaceae		
· ,	,	Fabaceae	S2	
Desmodium perplexum B.G. Schub.	perplexed ticktrefoil		32	
Dichanthelium acuminatum (Sw.) Gould & C.A. Clark	tapered rosette grass	Poaceae		
Dianthus armeria L.	Deptford pink	Caryophyllaceae		
Digitaria ischaemum (Schreb.) Schreb. ex Muhl.	smooth crabgrass	Poaceae		
Doellingeria umbellata (Mill.) Nees	parasol whitetop	Asteraceae		
Dryopteris carthusiana (Vill.) H.P. Fuchs	spinulose woodfern	Dryopteridaceae		
Dryopteris clintoniana (D.C. Eaton) Dowell	Clinton's woodfern	Dryopteridaceae		
Dryopteris cristata (L.) A. Gray	crested woodfern	Dryopteridaceae		
Dryopteris intermedia (Muhl. ex Willd.) A. Gray	intermediate woodfern	Dryopteridaceae		
Dryopteris marginalis (L.) A. Gray	marginal woodfern	Dryopteridaceae		
Echinochloa crus-galli (L.) P. Beauv.	barnyardgrass	Poaceae		
Echium vulgare L.	common viper's bugloss	Boraginaceae		
Elymus hystrix L.	eastern bottlebrush grass	Poaceae		
Epilobium ciliatum Raf.	fringed willowherb	Onagraceae		
Equisetum arvense L.	field horsetail	Equisetaceae		



**Project:** Franklin County Line Upgrade Project **Client:** Vermont Electric Power Company ("VELCO")

**Location**: Georgia to Highgate, Vermont

Survey Date(s): May-September 2022, July-August 2023 (L. Keszey, M.Jackman, C. Fenner, K. Maines)

Scientific Name ¹	Common Name	Family	Vermont Rarity Rank ²	Non-Native Invasive Species ³
Equisetum hyemale L.	scouringrush horsetail	Equisetaceae		
Equisetum scirpoides Michx.	dwarf scouringrush	Equisetaceae		
Equisetum sylvaticum L.	woodland horsetail	Equisetaceae		
Erigeron annuus (L.) Pers.	eastern daisy fleabane	Asteraceae		
Erigeron philadelphicus L.	Philadelphia fleabane	Asteraceae		
Euthamia graminifolia (L.) Nutt.	flat-top goldentop	Asteraceae		
Eutrochium maculatum (L.) E.E. Lamont	spotted joe pye weed	Asteraceae		
Euphrasia nemorosa (Pers.) Wallr.	common eyebright	Scrophulariaceae		
Eupatorium perfoliatum L.	common boneset	Asteraceae		
Fagus grandifolia Ehrh.	American beech	Fagaceae		
Festuca rubra L.	red fescue	Poaceae		
Fraxinus americana L.	white ash	Oleaceae		
Fraxinus pennsylvanica Marshall	green ash	Oleaceae		
Fragaria vesca L.	woodland strawberry	Rosaceae		
Fragaria virginiana Duchesne	Virginia strawberry	Rosaceae		
Galium mollugo L.	false baby's breath	Rubiaceae		
Galinsoga parviflora Cav.	gallant soldier	Asteraceae		
Gentiana andrewsii Griseb.	closed bottle gentian	Gentianaceae	S2 (T)	
Geum laciniatum Murray	rough avens	Rosaceae	(.)	
Geranium robertianum L.	Robert geranium	Geraniaceae		
Glyceria canadensis (Michx.) Trin.	rattlesnake mannagrass	Poaceae		
Glechoma hederacea L.	ground ivy	Lamiaceae		
Gleditsia triacanthos L.	honeylocust	Fabaceae		
Hepatica nobilis Schreb. var. acuta (Pursh) Steyerm.	sharplobe hepatica	Ranunculaceae		
Helianthus tuberosus L.	Jerusalem artichoke	Asteraceae		
Hieracium pilosella L.	mouseear hawkweed	Asteraceae		
Hieracium scabrum Michx.	rough hawkweed	Asteraceae		
Hylodesmum glutinosum (Muhl. ex Willd.) H. Ohashi & R.R. Mill	large tick-trefoil	Fabaceae		
Hypericum perforatum L.	common St. Johnswort	Clusiaceae		
Hydrophyllum virginianum L.	eastern waterleaf	Hydrophyllaceae		
Ilex verticillata (L.) A. Gray	common winterberry	Aquifoliaceae		
Impatiens capensis Meerb.	jewelweed	Balsaminaceae		
Iris versicolor L.	harlequin blueflag	Iridaceae		
Juglans cinerea L.	butternut	Juglandaceae	S3?	
Juncus tenuis Willd.	poverty rush	Juncaceae	55:	
Juniperus virginiana L.	eastern redcedar	Cupressaceae		
Daniperus virginiana L. Lactuca canadensis L.		Asteraceae		
Lactuca canadensis L. Leontodon autumnalis L.	Canada lettuce fall dandelion			
Leontras cardiaca L.	common motherwort	Asteraceae Lamiaceae		
Lithospermum officinale L.	European stoneseed	Boraginaceae		
Linaria vulgaris Mill.	butter and eggs	Scrophulariaceae		
Lobelia cardinalis L.	cardinalflower	Campanulaceae		
Lotus corniculatus L.	bird's-foot trefoil	Fabaceae		



**Project:** Franklin County Line Upgrade Project **Client:** Vermont Electric Power Company ("VELCO")

**Location**: Georgia to Highgate, Vermont

Survey Date(s): May-September 2022, July-August 2023 (L. Keszey, M.Jackman, C. Fenner, K. Maines)

Scientific Name ¹	Common Name	Family	Vermont Rarity Rank ²	Non-Native Invasive Species ³
Lonicera morrowii A. Gray	Morrow's honeysuckle	Caprifoliaceae		В
Lycopus americanus Muhl. ex W.P.C. Barton	American water horehound	Lamiaceae		
Lysimachia ciliata L.	fringed loosestrife	Primulaceae		
Lythrum salicaria L.	purple loosestrife	Lythraceae		В
Maianthemum canadense Desf.	Canada mayflower	Liliaceae		
Malus Mill.	apple	Rosaceae		
Maianthemum racemosum (L.) Link	feathery false lily of the valley	Liliaceae		
Melilotus officinalis (L.) Lam.	sweetclover	Fabaceae		
Mimulus ringens L.	Allegheny monkeyflower	Scrophulariaceae		
Muhlenbergia mexicana (L.) Trin.	Mexican muhly	Poaceae		
Nepeta cataria L.	catnip	Lamiaceae		
Oenothera biennis L.	common evening primrose	Onagraceae		
Onoclea sensibilis L.	sensitive fern	Dryopteridaceae		
Ostrya virginiana (Mill.) K. Koch	hophornbeam	Betulaceae		
Oxalis stricta L.	common yellow oxalis	Oxalidaceae		
Panicum capillare L.	witchgrass	Poaceae		
Parthenocissus quinquefolia (L.) Planch.	Virginia creeper	Vitaceae		
Pastinaca sativa L.	wild parsnip	Apiaceae		WL
Phalaris arundinacea L.	reed canarygrass	Poaceae		WL
Phragmites australis (Cav.) Trin. ex Steud.	common reed	Poaceae		<b>- "</b> -
Physalis hederifolia A. Gray	ivyleaf groundcherry	Solanaceae		
Phleum pratense L.	timothy	Poaceae		
Pipatherum racemosum	Black seeded Mountain Rice	Poaceae		
Pinus strobus L.	eastern white pine	Pinaceae		
Platanthera flava (L.) Lindl.	palegreen orchid	Orchidaceae		
Plantago lanceolata L.	narrowleaf plantain	Plantaginaceae		
Polypodium appalachianum Haufler & Windham	Appalachian polypody	Polypodiaceae		
Potentilla argentea L.	silver cinquefoil	Rosaceae		
Poa compressa L.	Canada bluegrass	Poaceae		
Polygonum cuspidatum Siebold & Zucc.	Japanese knotweed	Polygonaceae		В
Populus deltoides W. Bartram ex Marshall	eastern cottonwood	Salicaceae		D
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Populus grandidentata Michx.	bigtooth aspen	Salicaceae		
Portulaca oleracea L.	little hogweed	Portulacaceae		
Poa palustris L.	fowl bluegrass	Poaceae		
Poa pratensis L.  Relycenum scandons L. var. scandons	Kentucky bluegrass	Poaceae		-
Polygonum scandens L. var. scandens	climbing false buckwheat	Polygonaceae		
Potentilla simplex Michx.	common cinquefoil	Rosaceae		
Populus tremuloides Michx.	quaking aspen	Salicaceae		
Polygonum virginianum L.	jumpseed	Polygonaceae 		<del>                                     </del>
Prunella vulgaris L.	common selfheal	Lamiaceae		
Pycnanthemum tenuifolium Schrad.	narrowleaf mountainmint	Lamiaceae		
Quercus bicolor Willd.	swamp white oak	Fagaceae		
Quercus macrocarpa Michx.	bur oak	Fagaceae		
Quercus muehlenbergii Engelm.	chinkapin oak	Fagaceae	S3	



**Project:** Franklin County Line Upgrade Project **Client:** Vermont Electric Power Company ("VELCO")

**Location**: Georgia to Highgate, Vermont

Survey Date(s): May-September 2022, July-August 2023 (L. Keszey, M.Jackman, C. Fenner, K. Maines)

Scientific Name ¹	Common Name	Family	Vermont Rarity Rank ²	Non-Native Invasive Species ³
Quercus rubra L.	northern red oak	Fagaceae		
Rhamnus cathartica L.	common buckthorn	Rhamnaceae		В
Rhus glabra L.	smooth sumac	Anacardiaceae		
Rhus typhina L.	staghorn sumac	Anacardiaceae		
Ribes americanum Mill.	American black currant	Grossulariaceae		
Ribes cynosbati L.	eastern prickly gooseberry	Grossulariaceae		
Rosa multiflora Thunb.	multiflora rose	Rosaceae		WL
Rubus canadensis L.	smooth blackberry	Rosaceae		
Rumex crispus L.	curly dock	Polygonaceae		
Rubus hispidus L.	bristly dewberry	Rosaceae		
Rudbeckia hirta L.	blackeyed Susan	Asteraceae		
Rubus idaeus L.	American red raspberry	Rosaceae		
Rubus odoratus L.	purpleflowering raspberry	Rosaceae		
Salix bebbiana Sarq.	Bebb willow	Salicaceae		
Sanguinaria canadensis L.	bloodroot	Papaveraceae		
Salix discolor Muhl.	pussy willow	Salicaceae		
Salix interior Rowlee	sandbar willow	Salicaceae		
Salix nigra Marshall	black willow	Salicaceae		
Saponaria officinalis L.	bouncingbet	Caryophyllaceae		
Sambucus racemosa L.	red elderberry	Caprifoliaceae		
Salix sericea Marshall	silky willow	Salicaceae		
Scirpus atrovirens Willd.	green bulrush	Cyperaceae		
Scirpus cyperinus (L.) Kunth	woolgrass	Cyperaceae		
Scirpus hattorianus Makino	mosquito bulrush	Cyperaceae		
Scirpus microcarpus J. Presl & C. Presl	panicled bulrush	Cyperaceae		
Sedum acre L.	goldmoss stonecrop	Crassulaceae		
Setaria pumila (Poir.) Roem. & Schult.	yellow foxtail	Poaceae		
Sisyrinchium montanum Greene	· · · · · · · · · · · · · · · · · · ·	Iridaceae		
Solidago caesia L.	strict blue-eyed grass wreath goldenrod	Asteraceae		
Solidago altissima L.	Canada goldenrod			
Solidago canadensis L.	Canada goldenrod	Asteraceae		
Solanum dulcamara L.		Asteraceae		
	climbing nightshade	Solanaceae		
Solidago flexicaulis L.	zigzag goldenrod	Asteraceae		
Solidago gigantea Aiton	giant goldenrod	Asteraceae		
Solidago juncea Aiton	early goldenrod	Asteraceae		
Solidago nemoralis Aiton	gray goldenrod	Asteraceae		
Solidago rugosa Mill.	wrinkleleaf goldenrod	Asteraceae		
Sparganium americanum Nutt.	American bur-reed	Sparganiaceae		
Spiranthes cernua (L.) Rich.	nodding lady's tresses	Orchidaceae		
Spiranthes ochroleuca (Rydb.) Rydb.	yellow nodding lady's tresses	Orchidaceae	S3	
Streptopus amplexifolius (L.) DC.	claspleaf twistedstalk	Liliaceae		
Stellaria graminea L.	grass-like starwort	Caryophyllaceae		
Symphyotrichum cordifolium (L.) G.L. Nesom	common blue wood aster	Asteraceae		
Symphyotrichum lateriflorum (L.) Á. Löve & D. Löve	calico aster	Asteraceae		



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**Location**: Georgia to Highgate, Vermont

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Prepared By: VHB - October 17, 2023

Scientific Name ¹	Common Name	Family	Vermont Rarity Rank ²	Non-Native Invasive Species ³
Symphyotrichum lanceolatum (Willd.) G.L. Nesom	white panicle aster	Asteraceae		
Symphyotrichum novae-angliae (L.) G.L. Nesom	New England aster	Asteraceae		
Symphyotrichum puniceum (L.) Á. Löve & D. Löve	purplestem aster	Asteraceae		
Tanacetum vulgare L.	common tansy	Asteraceae		
Thalictrum dioicum L.	early meadow-rue	Ranunculaceae		
Thuja occidentalis L.	arborvitae	Cupressaceae		
Thalictrum pubescens Pursh	king of the meadow	Ranunculaceae		
Tilia americana L.	American basswood	Tiliaceae		
Toxicodendron rydbergii (Small ex Rydb.) Greene	western poison ivy	Anacardiaceae		
Trifolium aureum Pollich	golden clover	Fabaceae		
Triosteum aurantiacum E.P. Bicknell	orangefruit horse-gentian	Caprifoliaceae		
Trifolium pratense L.	red clover	Fabaceae		
Trifolium repens L.	white clover	Fabaceae		
Typha latifolia L.	broadleaf cattail	Typhaceae		
Ulmus americana L.	American elm	Ulmaceae		
Uvularia sessilifolia L.	sessileleaf bellwort	Liliaceae		
Valeriana officinalis L.	garden valerian	Valerianaceae		WL
Verbena hastata L.	swamp verbena	Verbenaceae		
Veronica officinalis L.	hard fescue	Scrophulariaceae		
Verbascum thapsus L.	common mullein	Scrophulariaceae		
Verbena urticifolia L.	white vervain	Verbenaceae		
Viburnum acerifolium L.	mapleleaf viburnum	Caprifoliaceae		
Vicia cracca L.	bird vetch	Fabaceae		
Vitis labrusca L.	fox grape	Vitaceae		
Viola L.	violet	Violaceae		
Vitis riparia Michx.	riverbank grape	Vitaceae		
Woodsia ilvensis (L.) R. Br.	rusty woodsia	Dryopteridaceae		
Woodsia obtusa (Spreng.) Torr.	bluntlobe cliff fern	Dryopteridaceae		
Xanthium strumarium L.	rough cocklebur	Asteraceae		
Zanthoxylum americanum Mill.	common pricklyash	Rutaceae		

## $\boldsymbol{X}$ - Plant species was found in this community type.

Watch List Species (WL) from: Vermont Invasive Exotic Plant Committee. 2017. Quarantine and Watch List Update.

¹ Nomenclature follows USDA-NRCS PLANTS database (plants.usda.gov/) (2023).

² The Vermont Rarity Rank from the "Rare and Uncommon Native Vascular Plants of Vermont - Vermont Natural Heritage Inventory - Vermont Fish & Wildlife Department", version dated May 4, 2022.

³ The Vermont Rarity Rank from the "Endangered and Threatened Plants of Vermont - Vermont Natural Heritage Inventory - Vermont Fish & Wildlife Department", version dated February 10, 2022.

⁴ Class B Noxious Weeds Species (B) from: Quarantine #3- Noxious Weeds (2012).