Town of Fremont Wetland Evaluation Report

Prepared for:

Town of Fremont, NH Conservation Commission



September 2007

Prepared by:

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with assistance from



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I. INTRODUCTION

West Environmental, Inc. (WEI) has prepared this report to document the evaluation of 55 wetlands within the Town of Fremont, New Hampshire. This is a follow-up study to the WEI study of Spruce Swamp in 2003. These wetlands were previously identified in the Fremont Wetland Mapping Report (April 2007), also prepared by WEI. The field work for this evaluation was conducted from February to September 2007 and included the verification of potential prime wetland boundaries.

The purpose of this wetland evaluation was to gain a better understanding of the wetland resources within the Town of Fremont and to identify wetlands that qualify for Prime Wetland Designation. Each wetland was analyzed to determine its relative importance within the town and the region. The information in this report may also be used as a planning tool by town officials to identify and protect natural resources within the community. The wetland boundaries identified on the aerial photo overlays are for planning and Prime Wetland Designation purposes and are not to be construed as site specific wetland delineations per State of New Hampshire regulations.

The Town of Fremont can utilize this report as the basis for selecting Prime Wetland candidates for designation in accordance with the requirements of RSA 482-A:15 and Chapter Wt 700 of the New Hampshire Department of Environmental Services (NHDES) administrative rules. These regulations allow for designation of "wetlands of significant value…because of their uniqueness, fragility and unspoiled character."

The following sections of this report document the functions and values of 55 wetlands and include the supporting information used to make these determinations.

II. METHODOLOGY

West Environmental, Inc. identified 57 wetlands for the inventory in the Fremont Wetland Mapping Report (April 2007). These wetlands all met the following criteria:

 State of New Hampshire jurisdictional wetlands with the presence of hydric soils, hydrophytic vegetation and wetland hydrology

Wetland Mapping

Fifty-seven wetland systems were mapped onto stereo black & white photographs with a flight date of March 28, 2006. Individual wetlands components were classified using the US Fish and Wildlife-Cowardin classification system. WEI staff then field inspected accessible wetlands during the 2007 field season. The wetland boundaries were verified to assess general accuracy and hydrologic connections. Wetland boundary revisions were drawn directly onto the aerial photos. These color aerial photo overlays are included in the report and the boundary for each wetland is shown in dark blue. The wetland boundaries were not flagged "on the ground" in the field and do not constitute a wetland delineation according to the 1987 Corps of Engineers Wetland Delineation Manual, Technical report Y-87-1. These wetland boundaries are not appropriate for project permitting by local, State or Federal Agencies. Two wetlands were not accessible in the field, Wetlands #51 & 57.

Wetland Evaluation

The Wetland Inventory Data Form includes wetland plant community descriptions, verifications of NRCS poorly and very poorly drained soil mapping, and information on field observations of wetland hydrology. This form also includes wildlife habitat observations. A photolog of the various wetland components is included to illustrate the physical features of each wetland. The wetland systems were evaluated utilizing a wetland assessment methodology developed by WEI based in part on the US Army Corps of Engineers New England Divisions Highway Methodology Workbook Supplement. This evaluation is based on collection of data on the physical characteristics of the wetland through field inspections, research of existing information and best professional judgment. This methodology provides a better understanding of the physical characteristics of each wetland for both its function and values.

The physical features were evaluated to determine if a function is present. The wetland is then evaluated to determine if the function present is a principal function of that wetland based on comparison to other wetlands in the region and using professional judgment.

Wetland Inventory Functional Value Assessment Data Forms were completed for each wetland (See Appendix A). This assessment evaluates the following wetland functions:

- Groundwater Recharge/Discharge This function includes the ability of a
 wetland to provide recharge of surface water into the ground and/or discharge
 groundwater into surface waters.
- Flood-flow Alteration This function considers the effectiveness of the wetland in reducing flood damage by attenuation of floodwaters for prolonged periods following precipitation events.
- Sediment/Toxicant/Pathogen Retention The presence of this function reduces
 or prevents degradation of water quality because the wetland acts as a trap for
 sediments, toxicants or pathogens.
- Nutrient Removal/Retention Transformation This function relates to the
 effectiveness of the wetland to prevent adverse effects of excess nutrients entering
 surface waters or aquifers.
- Product Export This function relates to the effectiveness of the wetland to produce food or usable products for human or other living organisms.
- Sediment/Shoreline Stabilization This function relates to the effectiveness of a wetland to stabilize stream banks and shorelines against erosion.
- Wildlife Habitat This function considers the effectiveness of the wetland to
 provide habitat for various types and populations of animals typically associated with
 the wetland and the wetland edge (includes resident and migratory species).

The assessment also evaluates the following values associated with wetlands:

- Recreational Value This value considers the effectiveness of the wetland and associated watercourses to provide recreation opportunities such as canoeing, fishing, hunting, hiking and other passive recreational activities. This does not include any activities that involve wheeled or tracked vehicles.
- Educational/Scientific Value This value considers the effectiveness of the wetland as a site for an "outdoor classroom" or as a location for scientific study or research.
- Uniqueness/Heritage This value includes such things as archeological sites, unusual aesthetic quality, historical features, or unique plants, animal or unusual geologic features.

An assessment of Restoration Potential was also performed for each wetland

Restoration Stabilization Potential — This assessment includes evaluating the restoration potential of wetlands that have ecological deterioration due to human activity. This includes water quality impacts, invasive species, ditching and fill from erosion or human disturbance.

A comparison of the functions and values used in this study with the Method for Comparative Evaluation of Non-tidal Wetlands in New Hampshire (1991) (NH Method) is shown below.

	Wetland Functions/Values	NH Method
1	Groundwater Recharge/Discharge	Groundwater Use Potential
2	Floodflow Alteration	Flood Control Potential
3	Sediment/Toxicant/Pathogen Retention	Sediment Trapping
4	Nutrient Removal/Retention Transformation	Nutrient Attenuation
5	Production Export	(No equivalent)
6	Sediment/Shoreline Stabilization	Shoreline Anchoring & Dissipation of Erosive Forces
7	Wildlife Habitat	Wildlife Habitat
8	Recreational Value	Water-based Recreation
9	Educational/Scientific Value	Educational Potential
10	Uniqueness/Heritage	Noteworthiness
11	Restoration Potential	(No equivalent)

III. FINDINGS

The 57 wetland systems identified for the inventory include wetlands ranging in size from 3 to 277 acres. Two wetlands were not accessible for evaluation. The mapped area of the 55 wetlands totals approximately 1,338.5 acres. Forested and scrub-shrub wetlands were the dominant wetland type. The wetlands within Fremont are associated with two main watersheds: the Exeter River and Brown Brook. By far the majority of wetlands drain into the Exeter River which enters the southwest portion of town from Sandown and exits into Chester. It reenters Fremont on its western boundary with Raymond and crosses the entire width of town. The freshwater wetland systems identified in the inventory include forested and scrub-shrub swamps, wet meadows, marshes, and beaver ponds. Most of the freshwater wetlands are associated with intermittent streams and many of them are interconnected and drain into the Exeter River.

Based on field assessments of the above-mentioned wetland values and functions a ranking system was developed to assess the comparative function and value of each wetland (see Table 1 Freshwater Wetlands). The ranking system in this report is based on three components of each wetland: size (larger wetlands generally provide greater potential to perform wetland function); number of principal functions (diverse wetlands with numerous functions are more important than wetlands with limited functions); and wetland-values (wetlands that provide human-based values provide greater benefit to the community). These elements were combined to provide a total score for each wetland.

The calculation for ranking the freshwater wetlands is as follows:

Wetland size (acres) x Number of principal functions + Wetland Value score = Total Score For the Wetland Value score there are 3 values and each value gets a score of 1, 2 or 3 for low, medium and high.

Based on the ranking system, four distinct tiers of wetlands emerged. Tier 1 includes 7 of the largest, most diverse freshwater and tidal wetlands complexes in Fremont. These wetlands represent 711.4 acres. These wetlands range in size from 61 to 277 and all of them score over 400 in their evaluations. The total acreage of this tier is 711.4.

Tier 2 includes 7 wetlands that score over 150 and under 400. These wetlands, although smaller than the Tier 1 wetlands, are diverse and high functioning. They range from a 44-acre freshwater scrub-shrub swamp to a 32-acre floodplain forest. The total acreage of this tier is 251.6.

Tier 3 includes the next 12 wetlands ranging from scores of 75 to 150. These wetlands range in size from 12 to 20 acres and provide significant wetland function and value. The total acreage of this tier is 191.7.

Tier 4 includes the remaining 23 wetlands that scored below 75. All of these wetlands still qualify as prime but they do not have the high function and value that the top 26 wetlands have.

Table 1

Fremont Freshwater Wetlands Ranking

Wetland ID	Size(acres)	#PF	WVs	Total Score	Rank
2	13.3 x	6	+ 7	= 86.8	23
3	4.4	6	5	31.4	41
4	4.7	6	5	33.2	40
5	18.2	6	8	117.2	17
6		N/A - 5	0% hydric	A soils	
7	7.6	7	7	60.2	32
8	13.7	6	6	88.2	22
9	22.2	3	3	69.6	29
10	38.9	6	7	240.4	10
11	9.1	6	5	59.6	33
12	6.0	7	6	48.0	37
13	8.0	6	5	53.0	35
14	34.9	6	7	216.4	13
15	81.1	7	9	576.7	3
16	67.5	7	5	477.5	5
17	18.0	6	6	114.0	18
18/19	6.0	1	3	9.0	49
20	61.0	7	9	436.0	6
21	12.0	4	5	53.0	34
22	20.6	4	4	86.4	25
23	4.6	5	5	28.0	43
24	9.8	2	3	22.6	44
25	19.3	6	7	122.8	15
26	16.2	7	5	118.4	16
27	14.0	7	5	103.0	20
28	4.5	4	3	21.0	46
29	9.8	6	3	61.8	30
30	12.0	7	6	90.0	21
31/32	13.0	5	8	73.0	28
33	7.5	6	4	49.0	36
34	6.0	5	6	36.0	39
35	28.0	6	9	177.0	14
36	8.3	5	3	44.5	38

· #PF = Number of Principal Functions WVs = Wetland Value score

Table 1 (cont.)

Wetland ID	Size(acres)	#PF	WVs	Total Score	Rank
37	60.0	7	9	427.0	7
38	3.0	5	4	19.0	47
39	76.0	7	5	537.0	4
40	12.0	6	3	75.0	27
41	88.8	7	5	621.0	2
42	277.0	7	7	1946.0	1
43	44.0	7	8	316	8
44	11.1	5	5	60.5	31
45	12.8	6	7	83.8	26
46	35.8	6	5	219.8	12
47	13.6	6	5	86.6	24
48	20.0	5	5	105.0	19
49	38.0	7	7	273.0	9
50	3.0	5	6	21.0	45
52	3.2	3	3	12.6	48
53		I/A - 50% h	ydric A soils		
54	N/A - 50% hydric A soils				
55	32.0	7	5	229.0	11
56	5.0	5	5	30.0	42

55 wetlands

Total Acres 1335.5

#PF = Number of Principal Functions identified in the Wetland Evaluation

WVs = Wetland Values score for Each Wetland

Table 2

Tier One All wetlands with a score over 400

Wetland ID	Size	Score	Rank
42	277.0	1946.0	1
41	88.8	621.0	2
15	81.1	576.7	3
39	76.0	537.0	4
16	67.5	477.5	5
20	61.0	436.0	6
37	60.0	427.0	7
Total acres	711.4		

Table 3

<u>Tier Two</u>
All wetlands with a score over 150 and under 400

Wetland ID	Size	Score	Rank
43	44.0	316.0	8
49	38.0	273.0	9
10	38.9	240.4	10
55	32.0	229.0	11
46	35.8	219.8	12
14	34.9	216.4	13
35	28.0	177.0	14
Total acres	251.6		

Table 4

Tier Three
All wetlands with a score over 75 and under 150

Wetland ID	Size	Score	Rank
25	19.3	122.8	15
26	16.2	118.4	16
5	18.2	117.2	17
17	18.0	114.0	18
48	20.0	105.0	19
27	14.0	103.0	20
30	12.0	90.0	21
8	13.7	88.2	22
2	13.3	86.8	23
47	13.6	86.6	24
22	20.6	86.4	25
45	12.8	83.8	26
Total acres	191.7		

IV. RECOMMENDATIONS

Prime Wetland Recommendations

West Environmental, Inc. (WEI) recommends all of the wetlands in Tiers 1, 2 & 3 be nominated as prime wetland candidates for designation by Fremont to the NHDES Wetlands Bureau. These 26 wetlands represent the highest functioning wetlands that provide critical habitat, crucial wetlands function and recreational and educational opportunities to the residents of Fremont. All of these wetlands qualify for Prime Wetland status and the majority of them are identified as highest value wildlife habitat of state importance in the NH Fish & Game's Wildlife Action Plan (2006).

It is recommended that the boundaries of these wetlands be finalized and digitized for placement on the Fremont Tax Maps as part of the local Prime Wetland Designation. The Fremont Conservation Commission should engage the Fremont Planning Board in this process and a warrant article should be crafted per RSA 482-A:15 for local Prime Wetland Designation. A public hearing should be held presenting the information regarding these wetlands and the public should have the opportunity to review the wetland maps and reports and ask questions. When and if the public approves these wetlands for Prime Designation, a final report with the Prime Wetland tax map overlays should be submitted to the NHDES Wetlands Bureau for their acceptance.

Vernal Pool Survey

A significant number of the Tier 3 wetlands provide critical vernal pool habitat that may be utilized by spotted or Blanding's turtles. Numerous smaller vernal pools were also identified during field inspections. A Vernal Pool Survey conducted during amphibian and turtle breeding season would help determine whether these wetlands in fact provide rare species habitat. This information could then be utilized in determining how these wetlands should be protected in the future.

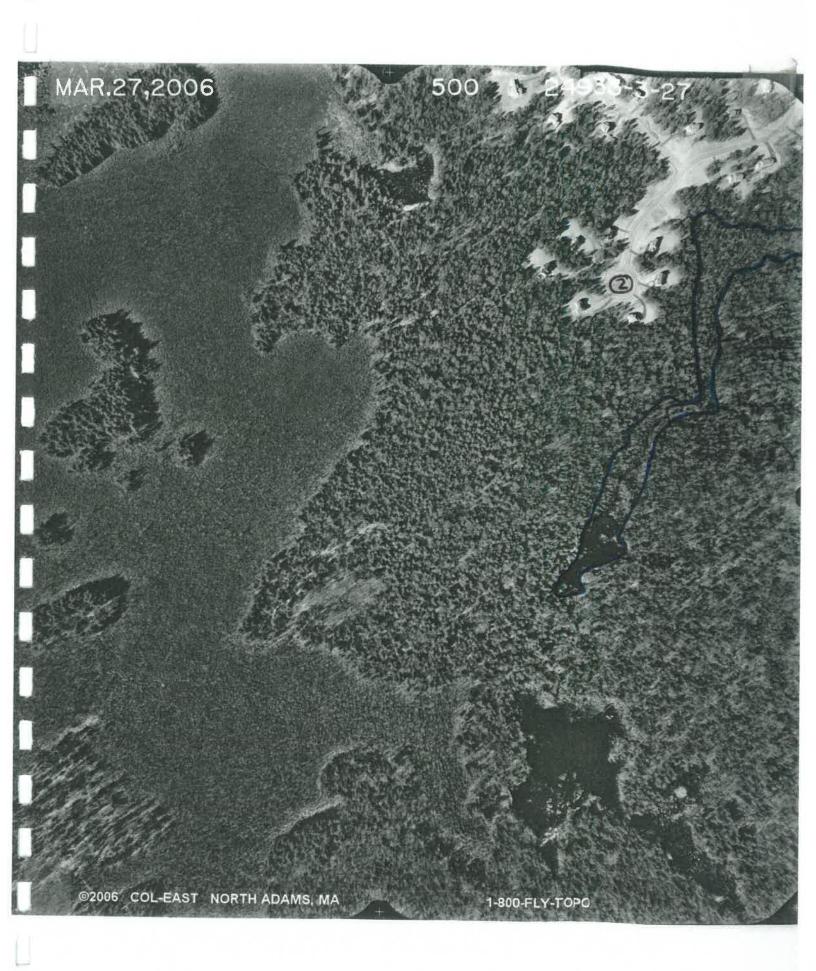
Wetland Restoration Projects

Several of the wetlands identified in this study have the potential for some degree or form of restoration. Alterations to wetland hydrology, inadequate culvert sizing, and disturbance/encroachment were observed in some of the wetlands. Several of these wetlands have invasive species which could be controlled through management and better storm water protection in the wetlands watershed. These areas should be further evaluated and landowners could be contacted in a cooperative effort to restore wetland function lost to impacts and degradation. Grants could potentially be obtained to fund these restoration projects.

Wetland Ordinance Revisions

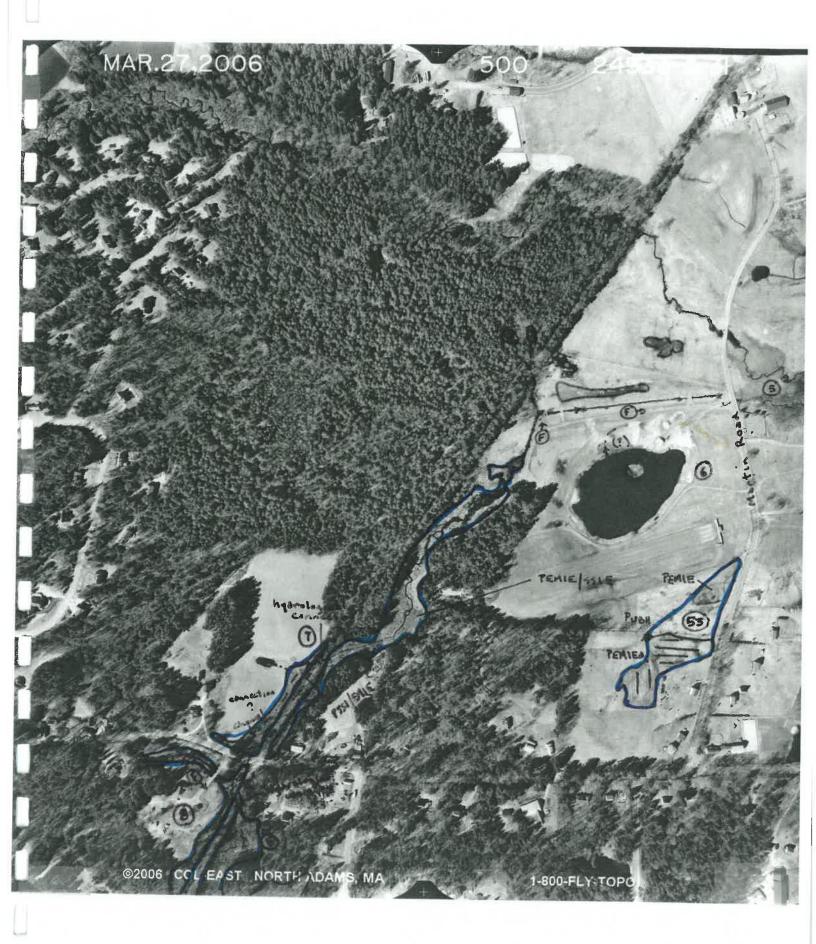
Another option for Fremont would be to amend Article VII Wetland Ordinance of the Fremont Zoning Ordinances to reference the information contained in this study and to increase protection of prime wetland candidates with greater setbacks and more restrictive buffer zones. This effort would be supported by the data collected in the wetland evaluation and would provide a higher level of protection to these critical resource areas.

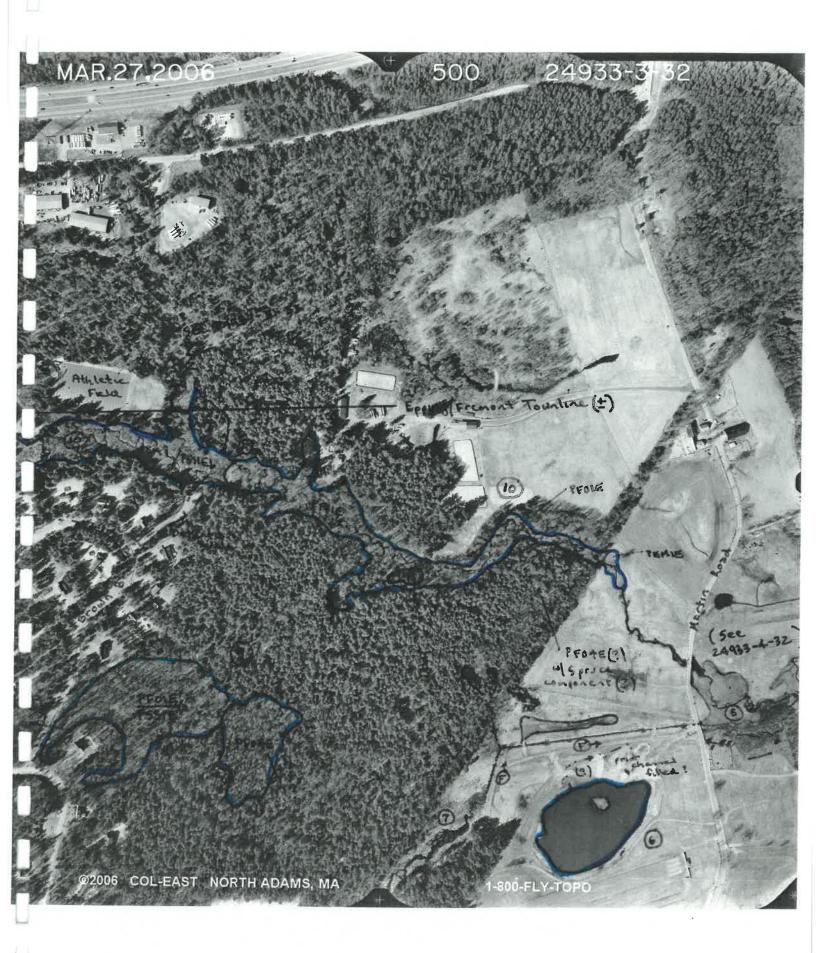
V. AERIAL PHOTO WETLAND MAPS WETLAND INVENTORY DATA FORMS PHOTO DOCUMENTATION

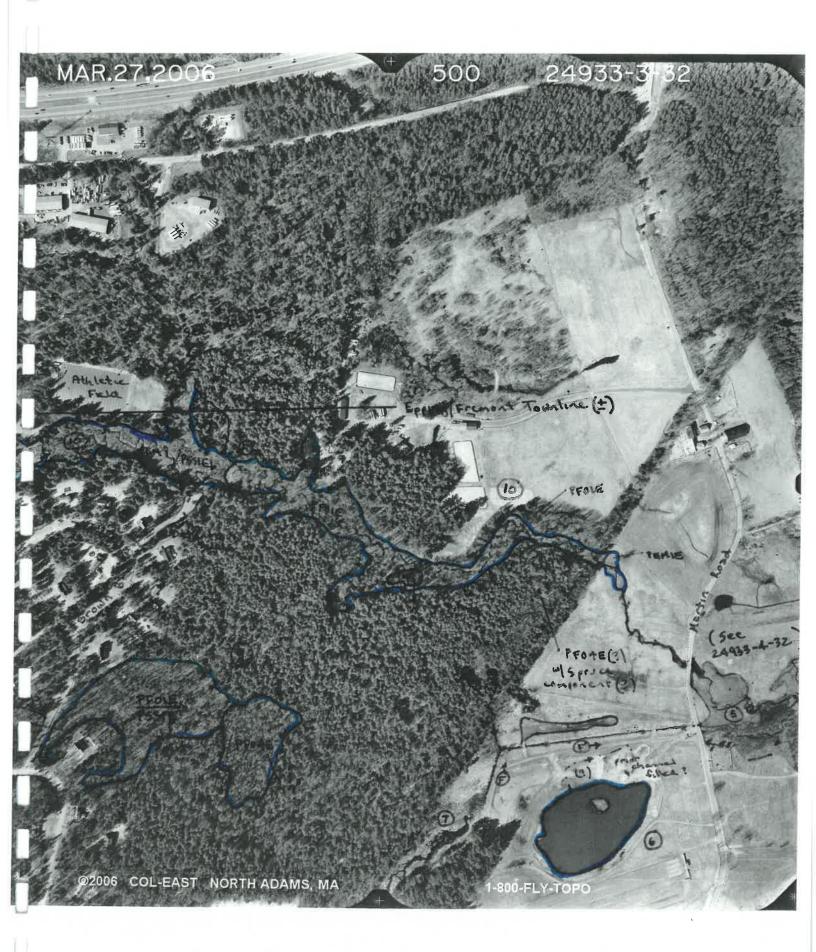


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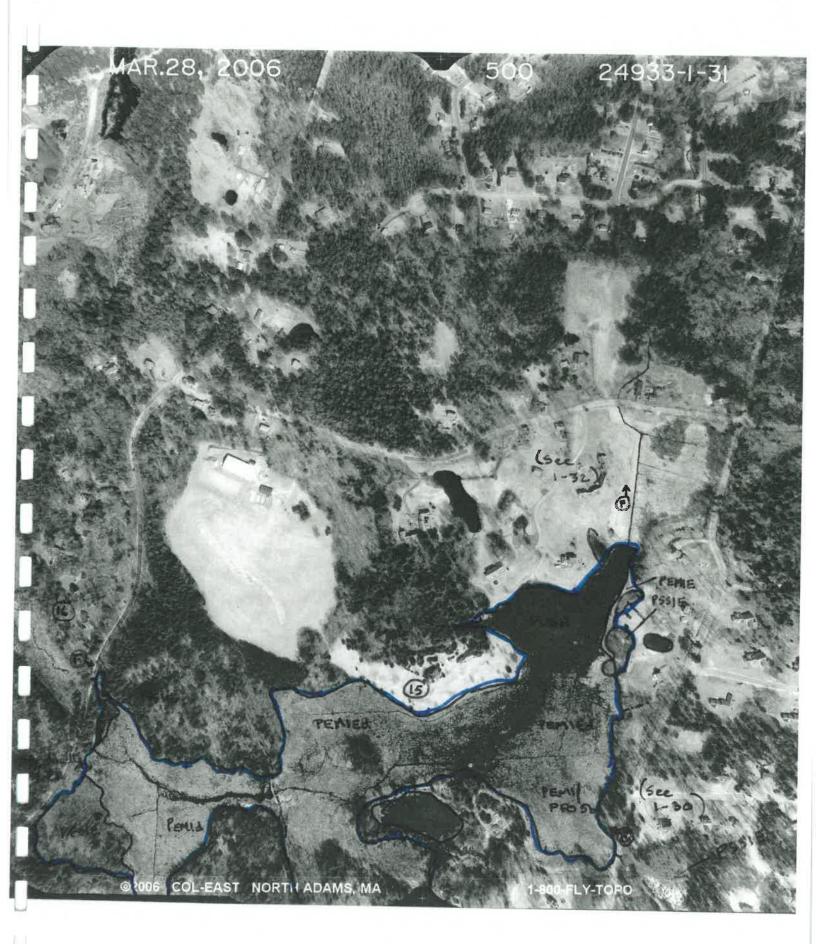
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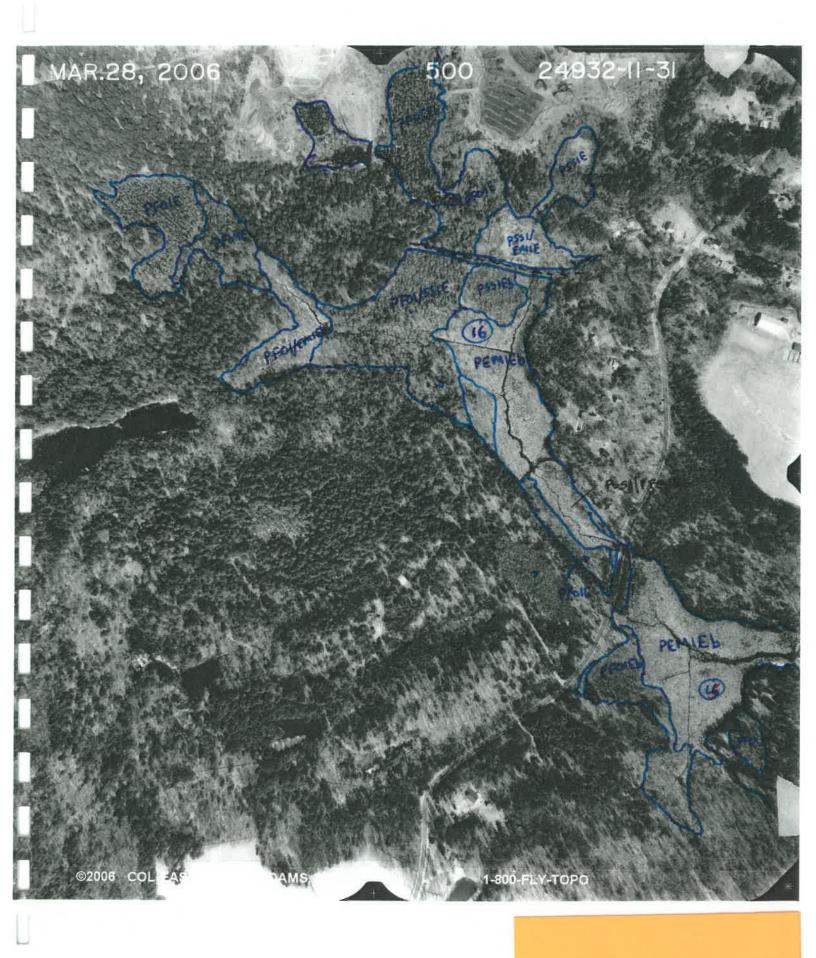
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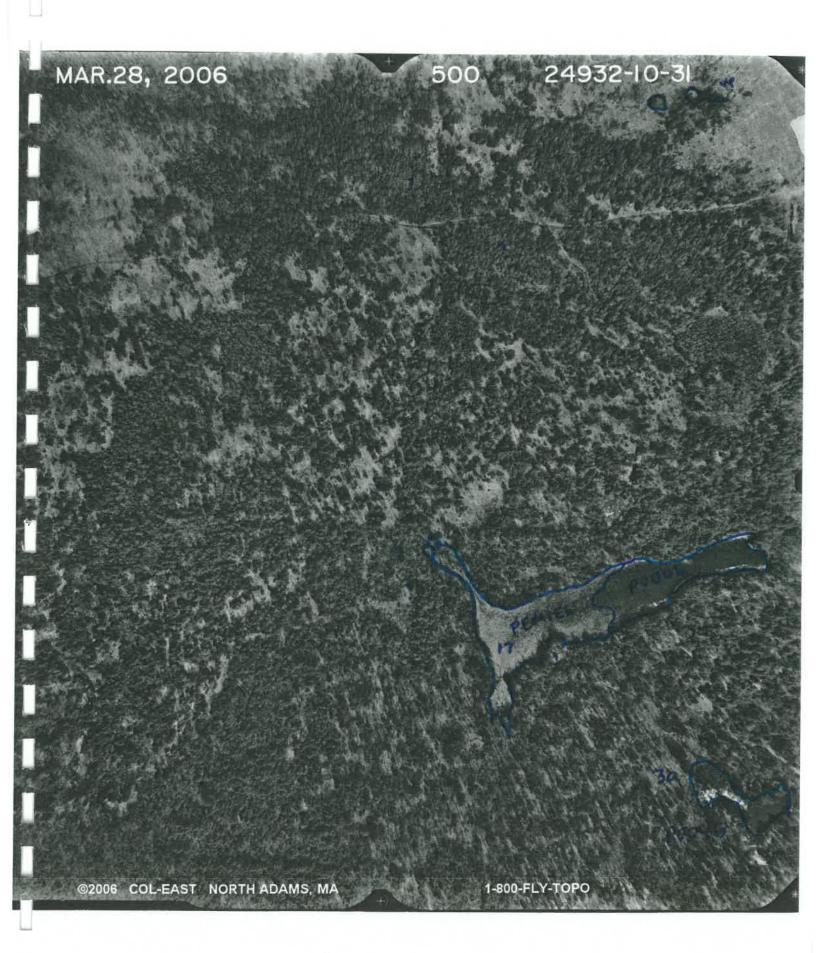
16) (See 1-30)

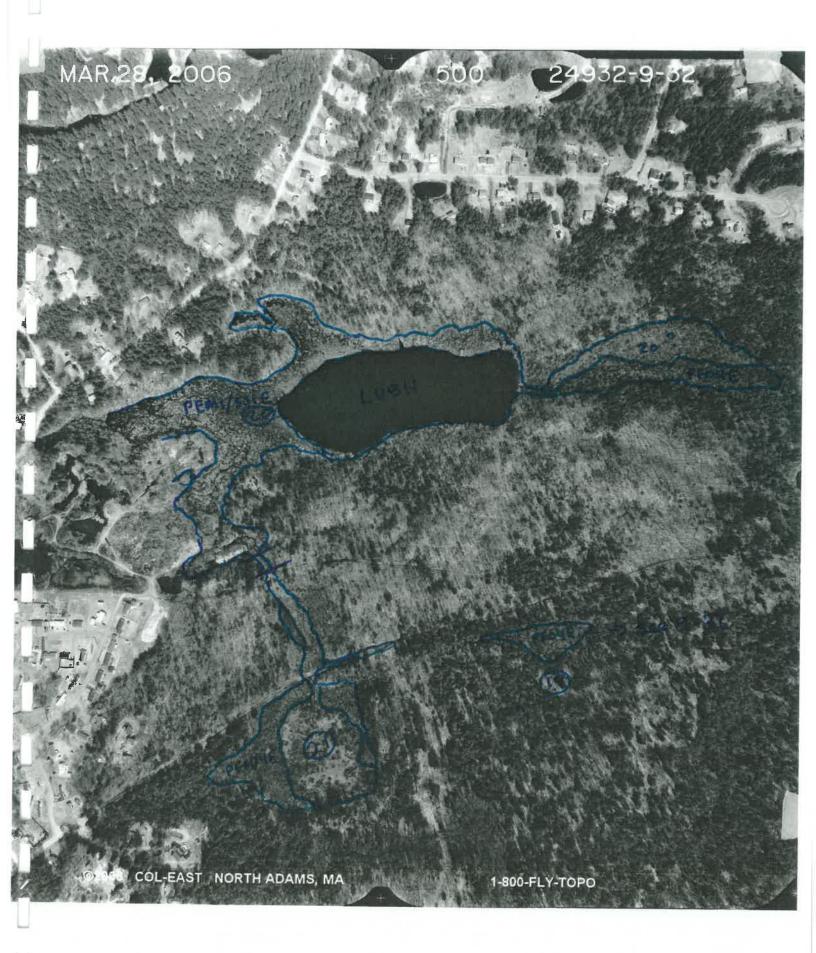
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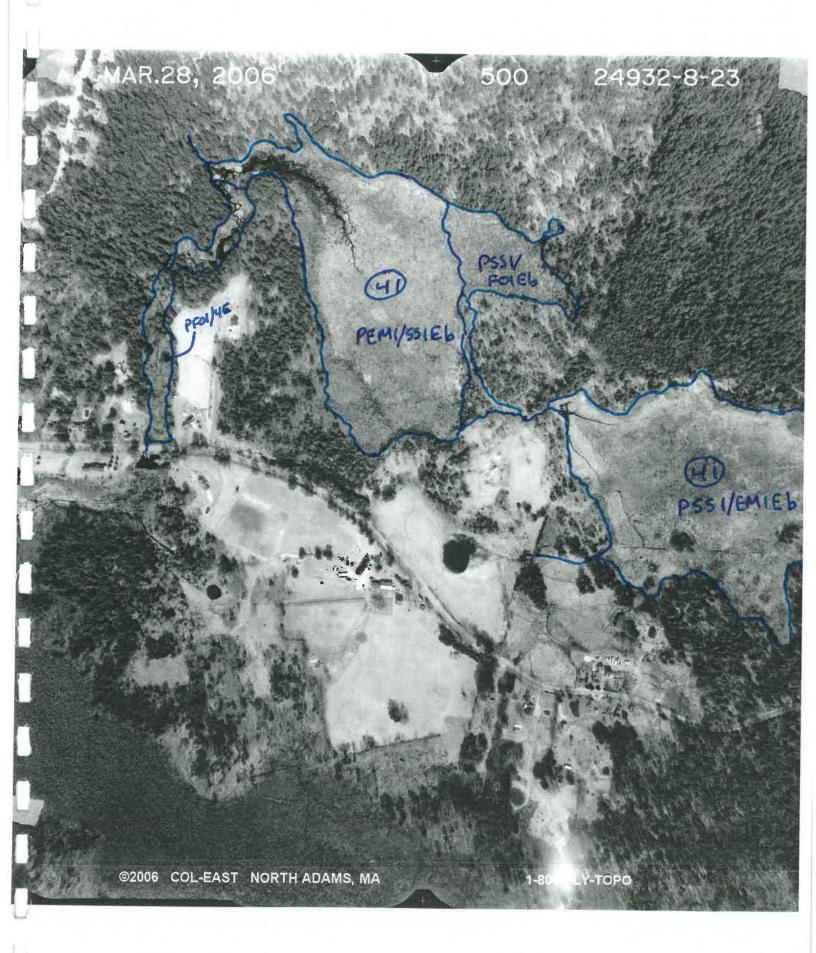
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32-26 9 DAMS

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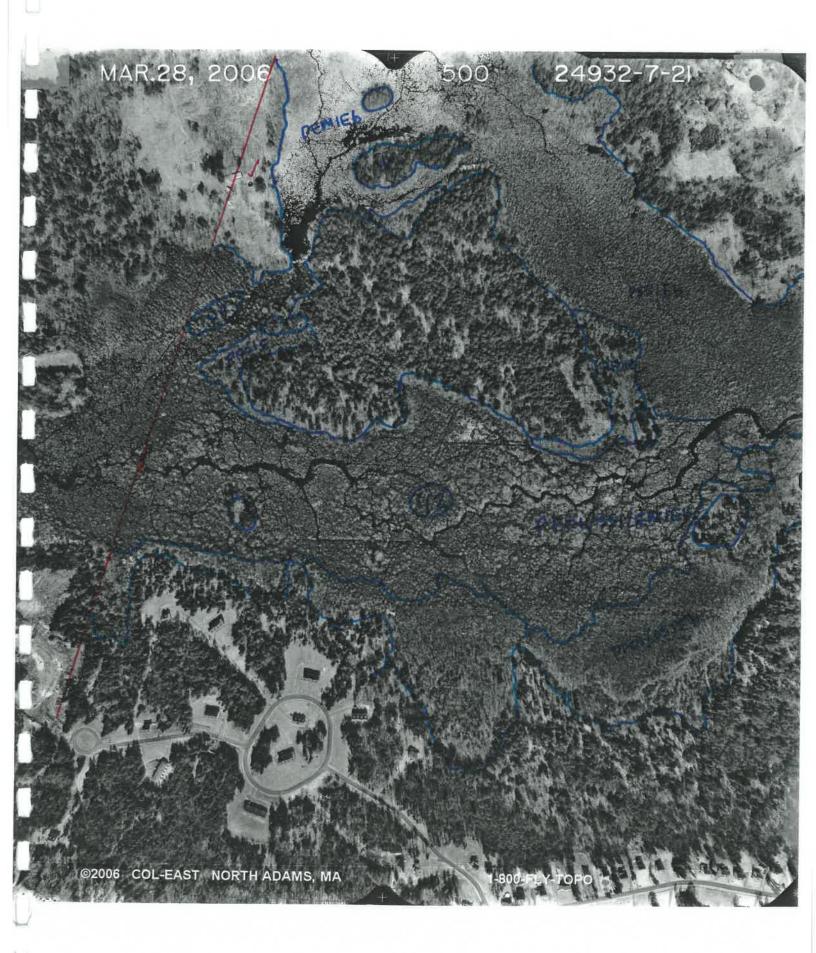
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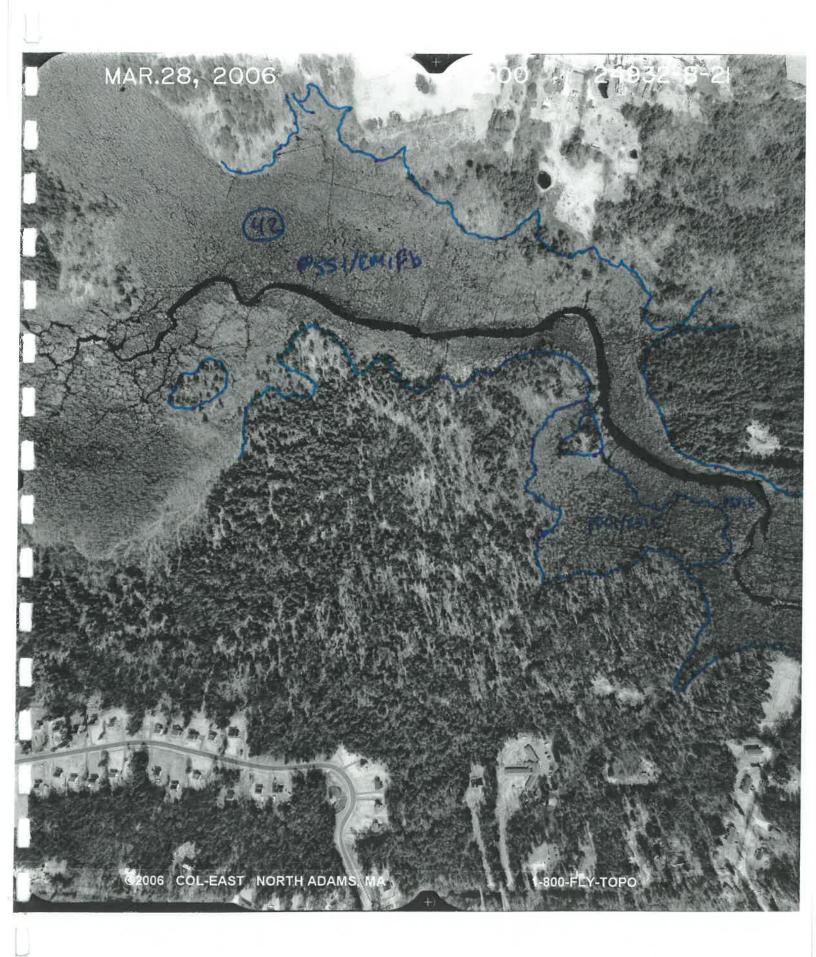
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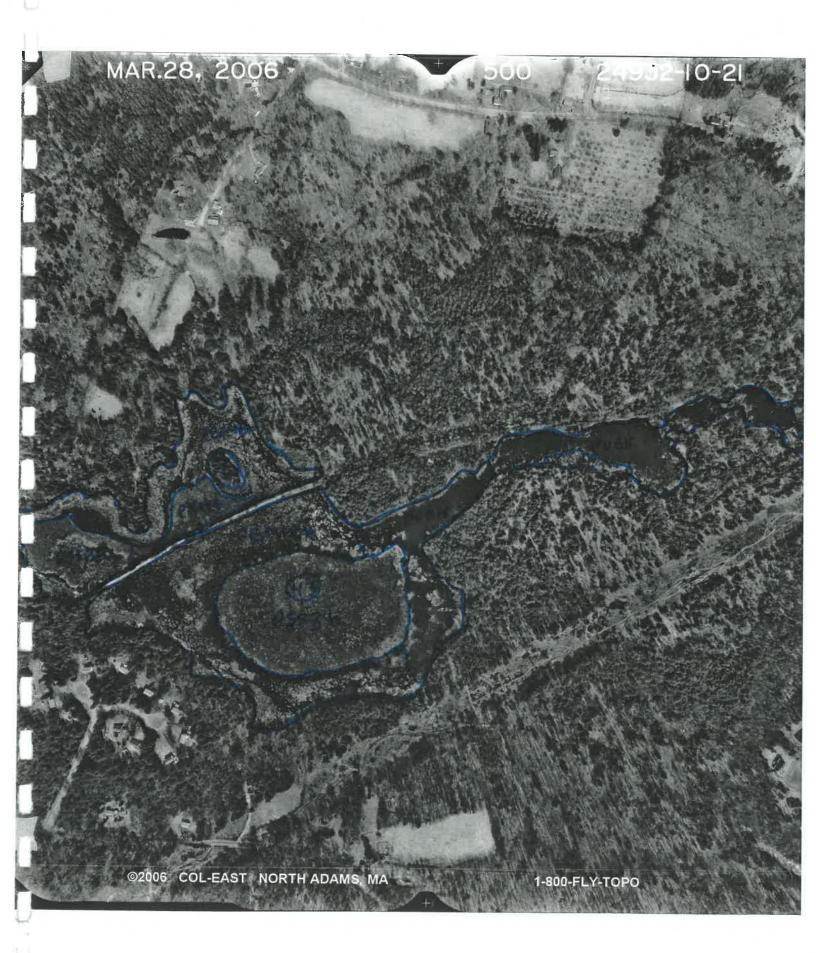
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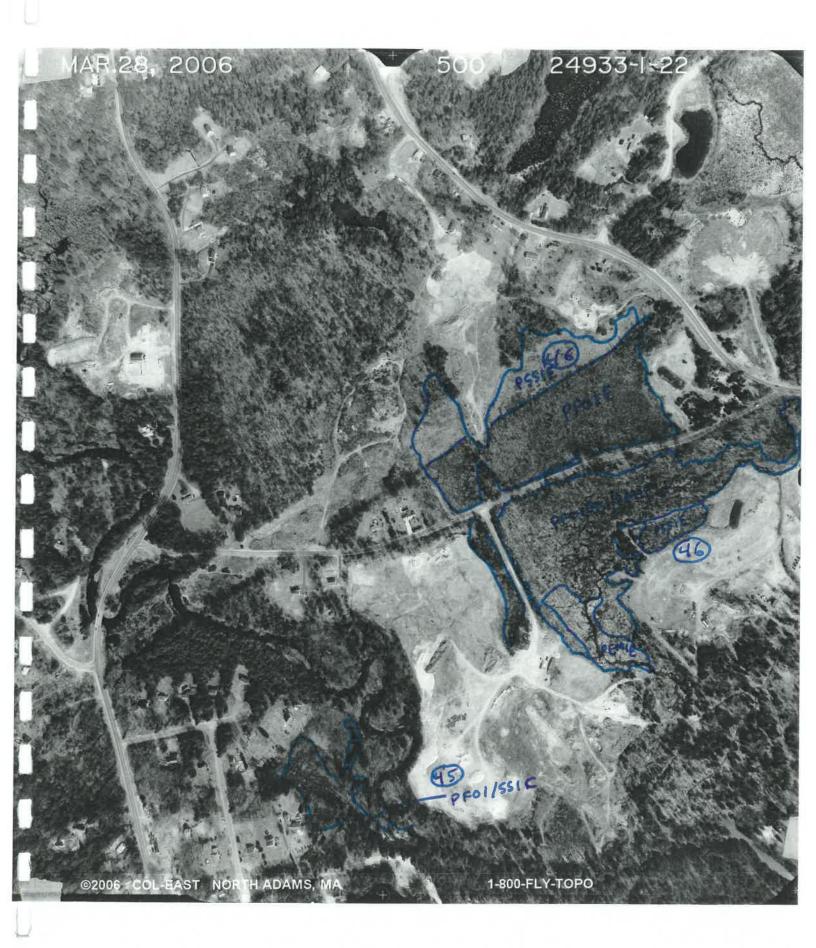
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WETLAND INVENTORY DATA FORM				
WETLAND ID: #2 WEI PROJECT #: 06-076NH	CLASSIFICATION: PFO1/4/SS1E SCIENTIST: Earle Chase		ACREAGE: 13.3 DATE: August 2007	
WETLAND TYPE:				
 WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER 	Deciduous (66%) Freshwater Shallow Ditched Upper Perennial Perennial Name: Name: Documented Description:	 ☑ Evergreen ☑ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☑ Intermittent ☐ Potential 	Scrub-Shrub (33%) Tidal Order:	
WETLAND DESCRIPTION The main wetland component is for and eastern ends of this wetland. WETLAND PLANT COMMUN		er components with associated m	arsh are situated on the most southern	
TREE LAYER Red maple	SAPLING LAYER Red maple Yellow birch	<u>SHRUB LAYER</u> Winterberry	HERBACEOUS LAYER Cinnamon fern Poison ivy	
la la maria de la maria della				
observed 24" black gum in adja	cent upland			
WETLAND SOILS DATA				
The wetland soils are mapped as (2 Survey. The adjacent upland slope	95) Greenwood mucky peat or s are moderately steep.	(495) Ossipee mucky peat accord	ding to the Rockingham County Soil	
WETLAND HYDROLOGY DAT	ΓΔ·			
Windthrow Associated intermittent str	_			

- Porcupine (den & scat)
- White-tailed deer (trail in nearby upland; deer stand in tree)
- Conservation markers were evident indicating adjacent land protection



	WETLAND INV	ENTORY DATA FORM	
WETLAND ID: #3 WEI PROJECT #: 06-076NH	CLASSIFICAT SCIENTIST: E	ION: PFO1E/SS1E arle Chase	ACREAGE: 4.4 DATE: 6/9/07
WETLAND TYPE: WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER WETLAND DESCRIPTION This is a forested scrub-shrub wet	□ Deciduous (50%) □ Freshwater Shallow □ Ditched □ Upper Perennial □ Perennial Name: □ Documented Description: land. This wetland is hydrological	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent (exits wetland on perime Potential	
WETLAND PLANT COMMUN	NITY DATA		
TREE LAYER Red maple Black gum Famarack (scattered)	SAPLING LAYER Red maple Yellow birch	SHRUB LAYER (DENSE) Pepperbush Highbush blueberry Winterberry	HERBACEOUS LAYER Cinnamon fern Sphagnum moss

This wetland is mapped as a (495) Ossipee mucky peat, very poorly drained. Soil auguring in the field revealed a 24" "O" layer.

WETLAND HYDROLOGY DATA:

- Standing water
- Pit & mound topography
- An intermittent stream flows in a westerly direction from this wetland into Wetland #4

- Pileated woodpecker (feeding evidence)
- White-tailed deer (scat)
- Travel corridor between wetland and adjacent driveway



WETLAND INVENTORY DATA FORM				
WETLAND ID: #4 WEI PROJECT #: 06-076NH	CLASSIFICATION: PEM1E/SS1E/FO5Eb SCIENTIST: Earle Chase		ACREAGE: 4.7 DATE: 6/9/07	
WETLAND TYPE:				
WOODED SWAMP MARSH (33%) WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	 ☑ Deciduous (33%) ☑ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description: 	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent (discharges into this wet) ☐ Potential	Scrub-Shrub (33%) Tidal Order:	
WETLAND DESCRIPTION This wetland is an abandoned bear overstory of snags was also evider WETLAND PLANT COMMUN	nt.	d of an emergent marsh intersper	sed with wetland shrubs. A dead	
TREE LAYER Dead snags	<u>SAPLING LAYER</u>	SHRUB LAYER (DENSE) Pepperbush Highbush blueberry Steeplebush Red maple	HERBACEOUS LAYER Tussock sedge Sphagnum moss Swamp dewberry Small-headed beak rush	
* Pink ladyslipper, a species of co	oncern, was observed in the adj	acent upland		
WETLAND SOILS DATA				
This wetland is mapped as a (125) oam. A strong sulfur smell was ev	Scarboro muck. Soil auguring in vident.	the field revealed a 20-24" muck	c. This was underlain by a gray sandy	
WETLAND HYDROLOGY DAT	ГА:			
 4-5" of standing water 	age via a seasonal stream from We	etland #3		

- Chestnut-sided warbler (audio)
- Spring peeper (audio)
- Bullfrog (visual)
- White-tailed deer (tracks/trail)
- According to an abutting landowner, wild turkey, coyote, fisher and moose have been observed

	WETLAND IN	ENTORY DATA FORM		
WETLAND ID: #5 WEI PROJECT #: 06-076NH	CLASSIFICATION: PEM1E/SS1E SCIENTIST: Earle Chase		ACREAGE: 18.2 DATE: August 2007	
WETLAND TYPE:				
 WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER 	☐ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Brown Brook Name: ☐ Documented Description:	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	⊠ Scrub-Shrub □ Tidal Order:	
This wetland is bisected by Brown components. The stream flows in diversity and overall uniqueness. WETLAND PLANT COMMUNITREE LAYER	a southeasterly direction. Th	is comprised chiefly of wet mea is wetland's position adjacent se SHRUB LAYER Speckled alder	adow, shallow marsh, and scrub-shrub veral large fields increases its ecological HERBACEOUS LAYER	
<i>)</i>		Speckied aider	Tussock sedge Soft rush Buttercup (spp.) Swamp milkwood Lurid sedge Red top grass Boneset	
WETLAND SOILS DATA				
	38A) Squamscott fine sandy lo 4-6" "O" layer. A sulfur smel	nam, a poorly drained soil with in I was evident.	nclusions of Maybid and Scitico. Soil	
WETLAND HYDROLOGY DAT	Γ Α:			
		nial in character. Adiacent wetla	ands are saturated to the soil surface.	

- Red-wing blackbird
- Killdeer
- Whirlygig beetles (in brook)
- Water strider (in brook)
- The speckled alder shrub layer within this wetland provides excellent habitat for woodcock. The adjacent field areas (some of them wet meadow) provide critical nesting habitat to several species of songbird requiring large open tracts.



Ĺ	WETLAND INVE	NTORY DATA FORM	
WETLAND ID: #6 WEI PROJECT #: 06-076NH	CLASSIFICATION: PUBHe SCIENTIST: Earle Chase		ACREAGE: 6.1 DATE: August 2007
WETLAND TYPE:			
 WOODED SWAMP MARSH (on perimeter) WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER 	☐ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description: Excavated pond	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☑ Intermittent (?) ☐ Potential	Scrub-Shrub (on perimeter) Tidal Order:
WETLAND DESCRIPTION			
This wetland appears to have been perimeter of shallow marsh and so	erub-shrub vegetation. A small sea	situated nearby. An open wate asonal outlet was noted.	r component is evident with a tight
*Noted invasives:	SAPLING LAYER Barberry (spp.) encountered	SHRUB LAYER Speckled alder	HERBACEOUS LAYER Tussock sedge Broad-leaved cattail Woolgrass
<u>.</u>	in adjacent uplands		*These 3 speices were located on the very outside edge of the pond
WETLAND SOILS DATA			
Soils could not be confirmed due to oam, moderately well drained. Eleimpossible at this time, post excava	dridge soil units can contain 20% in ation, that these were present.	er. The surrounding soils are minclusions of either Squamscott	napped as a 38A Eldridge fine sandy or Scitico, poorly drained soils. It is
WETLAND HYDROLOGY DAT	IA:		
Evident surface waterA USGS map shows an ex	iting intermittent stream on the no	orth side of the pond	

- 14 Canada geese
- Wildlife structure is lacking within the pond

Note: The large area encompassed by open water and lack of any associated wetlands disallows prime wetland status.



WETLAND INVENTORY DATA FORM				
WETLAND ID: #7 WEI PROJECT #: 06-076NH	CLASSIFICATION: PEM1/SS1E SCIENTIST: Earle Chase		ACREAGE: 7.6 DATE: 6/12/07	
WETLAND TYPE: WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	Deciduous Freshwater Shallow (66%) Ditched Upper Perennial Perennial Name: Name: Documented Description:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	⊠ Scrub-Shrub (33%) □ Tidal Order:	
WETLAND DESCRIPTION This wetland occupies a long and shallow marsh with an interspersion WETLAND PLANT COMMUN	narrow drainageway that includes a on of shrubs. An abandoned railroa	n intermittent stream. The pla d is situated adjacent this wetl	ant community consists chiefly of and.	
TREE LAYER	<u>SAPLING LAYER</u>	SHRUB LAYER Meadowsweet Steeplebush Winterberry Silky dogwood	HERBACEOUS LAYER Tussock sedge Broad-leaved cattail Sphagnum moss Bedstraw Spatterdock Royal fern (on perimeter) Joe pye weed (on perimeter)	
WETLAND SOILS DATA				
According to the Rockingham Cou uguring in the wetland revealed a	12-14" "O" layer.	mapped as a (125) Scarboro n	nuck, a very poorly drained soil. Soil	
his wetland is hydrologically conranite culvert underneath an aband eventually merges with a consolidation	nected with Wetland #8. A 5' diam loned railroad bed do not appear to ted/straightened ditch line).	eter galvanized culvert undern impede flowage as it drains in	eath North Road and a 4 x 6 foot a northeasterly direction (where it	

- Whirlygig beetles
- Dragonfly (spp.)
- Presence of basking logs and tussock sedge potentially provide preferred habitat to spotted turtles.



WETLAND INVENTORY DATA FORM				
WETLAND ID: #8 WEI PROJECT #: 06-076NH	CLASSIFICATION: PSS1/EM1E6 SCIENTIST: Earle Chase		ACREAGE: 13.7 DATE: 6/12/07	
WETLAND TYPE:			1	
 WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER 	☐ Deciduous ☐ Freshwater Shallow (50%) ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	⊠ Scrub-Shrub (50%) ☐ Tidal Order:	
WETLAND DESCRIPTION This scrub-shrub / emergent wetland is bisected by an intermittent stream. An abandoned railroad bed divides this wetland in two.				
WETLAND PLANT COMMUN TREE LAYER Red maple	SAPLING LAYER Red maple	SHRUB LAYER Buttonbush Speckled alder Winterberry Meadowsweet	HERBACEOUS LAYER Tussock sedge Royal fern Boneset Jewelweed	
Noted invasive:	Barberry (spp.)	Maleberry	Goldenrod (spp.)	
WETLAND SOILS DATA According to the Rockingham County Soil Survey, the wetland soil is mapped as a (97) Greenwood & Ossipee soils, ponded, very poorly drained soil. Soil auguring in the wetland revealed a 6-8" "O" layer.				
	nnected with Wetland #7 via a 5' dia		rth Road separates these two wetland direction. Prior ponding by beaver is	

- Green frog Whirlygig beetles Dragonfly (spp.)



WETLAND INVENTORY DATA FORM				
WETLAND ID: #9 WEI PROJECT #: 06-076NH	CLASSIFICATION: PFO1/SS1E SCIENTIST: Earle Chase		ACREAGE: 22.2 DATE: 8/31/07	
WETLAND TYPE:	Deciduous (66%) Freshwater Shallow Ditched Upper Perennial Perennial Name: Name: Documented Description:	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	⊠ Scrub-Shrub (33%) ☐ Tidal Order:	
WETLAND DESCRIPTION This is a forested wetland with a s WETLAND PLANT COMMUN	·			
TREE LAYER Red maple American elm (scattered)	SAPLING LAYER Red maple Musclewood	SHRUB LAYER Winterberry Highbush blueberry Northern arrowwood	HERBACEOUS LAYER Cinnamon fern Royal fern Sphagnum moss Poison ivy Carex intumescens	

Soils are mapped in the Rockingham County Soil Survey as Pipestone with inclusions of either Scarboro or Chocorua. Soil auguring in the field revealed a 3-4" "O" layer underlain with a gray sandy loam in a wetter portion of the wetland. Due to the percentage of hydric B soils, this wetland may not meet the established criteria for prime wetlands.

VETLAND HYDROLOGY DATA:

- Pit and mound topography
- Surfacial rooting
- Stained leaves
- Flowage drains in an easterly direction under Brown Brook Circle (via 24" diameter culvert)

WILDLIFE SIGNIFICANCE / ADDITIONAL NOTES:

White-tailed deer (tracks)



WETLAND INVENTORY DATA FORM			
WETLAND ID: #10 WEI PROJECT #: 06-076NH	CLASSIFICATION: PEM1/SS1Eb SCIENTIST: Earle Chase		ACREAGE: 38.9 DATE: August 2007
WETLAND TYPE: □ WOODED SWAMP □ MARSH □ WET MEADOW □ RIVER □ STREAM □ POND □ LAKE □ VERNAL POOL □ HUMAN MADE or OTHER WETLAND DESCRIPTION	☐ Deciduous ☐ Freshwater Shallow (50%) ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Brown Brook Name: ☐ Documented Description:	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	Scrub-Shrub (50%) Tidal Order:
This wetland occupies a very long Wildwood Road on the west to Mashrub.	and narrow drainageway that incluartin Road on the east. The chief w	ides Brown Brook, a perennial fleetland classification within this	owage. The wetland stretches from wetland system is emergent / scrub-
WETLAND PLANT COMMUN TREE LAYER	I <mark>ITY DATA</mark> SAPLING LAYER	SHRUB LAYER	HERBACEOUS LAYER
Snags (scattered)		Steeplebush Speckled alder Silky dogwood Meadowsweet	Tussock sedge Woolgrass Reed canary grass Broad-leaved cattail

According to the Rockingham County Soil Survey, the wetland soils are mapped as either a (97) Greenwood & Ossipee soils, ponded, very poorly drained, a (395) Chocorua mucky peat, very poorly drained, or a (134) Maybid silt loam, also very poorly drained.

WETLAND HYDROLOGY DATA:

- Past ponding was evident probably due to prior beaver activity
- A well established stream channel (Brown Brook) that drains in a westerly direction

- Fisher (tracks)
- Beaver (historical ponding evidence)
- Hawk (spp.) in flight



	WETLAND INVE	ENTORY DATA FORM	
WETLAND ID: #11 WEI PROJECT #: 06-076NH	CLASSIFICATION SCIENTIST: East	ACREAGE: 9.1 DATE: 8/31/07	
WETLAND TYPE: WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER WETLAND DESCRIPTION This is a forested scrub-shrub wet summer months, providing potent	□ Deciduous □ Freshwater Shallow □ Ditched □ Upper Perennial □ Perennial Name: □ Documented Description:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential he wetland appear to hold surfa	Scrub-Shrub Tidal Order:
WETLAND PLANT COMMUN	NITY DATA		
TREE LAYER Red maple White pine (scattered)	SAPLING LAYER Red maple	SHRUB LAYER Winterberry Maleberry Speckled alder Meadowsweet	HERBACEOUS LAYER Tussock sedge Woolgrass Burr-marigold Sphagnum moss
TREE LAYER Red maple	SAPLING LAYER	Winterberry Maleberry Speckled alder	Tussock sedge Woolgrass Burr-marigold

The Rockingham County Survey indicates the soil within the wetlands to be a (314A), Pipestone sand (somewhat poorly drained) with inclusions of Scarboro or Chocorua soils. While soil sampling/ auguring, an 18-20" "O" layer (very fibrous in character) was noted.

VETLAND HYDROLOGY DATA:

- Evidence of standing water
- Pit & mound topography
- Fluted trunks were a characteristic on the red maple trees

- According to an abutter, a species of turtle has been observed on several occasions
- Scrub-shrub wetlands provide critical habitat to several species of wildlife



	WETLAND INVE	NTORY DATA FORM		
WETLAND ID: #12	CLASSIFICATIO	N: PFO1/SS1E	ACREAGE: 6	
WEI PROJECT #: 06-076NH	SCIENTIST: Earle Chase		DATE: 2/20/07	
WETLAND TYPE:				
WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	Deciduous (50%) Freshwater Shallow Ditched Upper Perennial Perennial Name: Name: Documented Description:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	⊠ Scrub-Shrub (50%) ☐ Tidal Order:	
WETLAND DESCRIPTION				
This is a forested scrub-shrub wet	land. A small intermittent stream ment, this wetland provides critica	exits on the west (underneath l winter yarding to a few whi	Wildwood Road). Although small and te-tailed deer.	
This is a forested scrub-shrub wet	ment, this wetland provides critica	exits on the west (underneath l winter yarding to a few whi	Wildwood Road). Although small and te-tailed deer.	

There is very little topographical relief between the elevation of the wetland and adjacent uplands. According to the Rockingham County Soil Survey, the wetland soils are mapped as a (314A) Pipestone sand, somewhat poorly drained with inclusions of either Scarboro or Chocorua, very poorly drained soils.

WETLAND HYDROLOGY DATA:

Wetland #12 is hydrologically connected with Wetland #10 via an intermittent stream. Secondary indicators include pit and mound opography and scattered windthrow.

- Red squirrel (audio/feeding activity)
- White-tailed deer (urine/scat and 5 deer beds)
- Excellent wetland structure abundant fallen wood



	WETLAND INVEN	TORY DATA FORM	
WETLAND ID: #13 WEI PROJECT #: 06-076NH	CLASSIFICATION: PFO1/SS1E SCIENTIST: Earle Chase		ACREAGE: 8 DATE: 2/20/07
WETLAND TYPE:			
WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	☐ Deciduous (66%) ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	Scrub-Shrub (33%) Tidal Order:
WETLAND DESCRIPTION This is a forested scrub-shrub wetland's topographical position a	land. A small intermittent stream band plant community description sug	isects the wetland and slowly floggest that this wetland may be o	ows in a southeasterly direction. The f exemplary status.
WETLAND PLANT COMMUN	HITY DATA		
TREE LAYER Red maple Black gum Yellow birch	SAPLING LAYER Red maple Eastern hemlock	SHRUB LAYER Highbush blueberry Winterberry Pepperbush Maleberry	HERBACEOUS LAYER Cinnamon fern Sphagnum moss Bugleweed
WETLAND SOILS DATA			

According to the Rockingham County Soil Survey, the wetland soils are mapped as a (295) Greenwood mucky peat, very poorly drained. Frozen conditions did not allow soil auguring.

WETLAND HYDROLOGY DATA:

- Pit & mound topography
- Some standing water

- Pileated woodpecker (feeding activity)
- White-breasted nuthatch
- 6/12/07 sighting of snapping turtle
- Further clarification of possible exemplary status should be pursued to confirm potential uniqueness



WETLAND INVENTORY DATA FORM				
WETLAND ID: #14 WEI PROJECT #: 06-076NH			ACREAGE: 34.9 DATE: 2/21/07	
WETLAND TYPE:				
 WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER 	☐ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	Scrub-Shrub Tidal Order:	
WETLAND DESCRIPTION This wetland occupies an abandoned beaver flowage. The abandonment has occurred recently as a shrub layer has not established itself. The wetland is comprised chiefly of emergent marsh.				
WETLAND PLANT COMMUN	UTY DATA			
TREE LAYER Dead snag component	SAPLING LAYER	SHRUB LAYER On perimeter: Winterberry Speckled alder Steeplebush	HERBACEOUS LAYER Broad-leaved cattail Woolgrass Sensitive fern Swamp loosestrife	
WETLAND SOILS DATA				

According to the Rockingham County Soil Survey, the wetland soils are mapped as a (295) Greenwood mucky peat, very poorly drained. Frozen conditions did not allow soil auguring.

WETLAND HYDROLOGY DATA:

Originally an open water component, this wetland appears recently drained. Pockets of standing water were evident. Two intermittent streams exit this wetland (one southerly, the other easterly).

- Prior beaver activity including 5 lodges and 2 large dams
- 9 observed great blue heron nests, an established rookery, 2 fledglings observed at two nests on 6/12/07
- Fisher (tracks)
- River otter (slide)
- Coyote (tracks)
- Northern water snake
- Numerous standing cavity trees / abundant fallen wood

	WETLAND IN	VENTORY DATA FORM		
WETLAND ID: #15 WEI PROJECT #: 06-076NH	CLASSIFICATION: PEM1Ed; PUBH; PEM1/PF05b; PF01/4E/SS1E SCIENTIST: Earle Chase		ACREAGE: 81.1 DATE: August 2007	
WETLAND TYPE:				
 WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER 	☐ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	Scrub-Shrub Tidal Order:	
WETLAND DESCRIPTION This is one of the larger wetland systems in Fremont. A large percentage of the wetland is comprised of emergent marsh. Beaver actively occupy the site. Brown Brook flows in an easterly direction through the wetland into an open water component and then northwards.				
WETLAND PLANT COMMUN	ITY DATA			
TREE LAYER Standing snags	<u>SAPLING LAYER</u>	SHRUB LAYER Steeplebush	HERBACEOUS LAYER Tussock sedge Broad-leaved cattail Reed canary grass	
WETLAND SOILS DATA				

The wetland soil is mapped as a (295) Greenwood mucky peat, very poorly drained.

WETLAND HYDROLOGY DATA:

- Open water component
- Appears prior wetlands were ditched
- Wetland #15 is hydrologically connected with Wetland #16 on the northwest
- Brown Brook, a perennial stream, bisects this wetland, first flowing easterly then northerly
- Proximity to aquifer

- Beaver (lodge, dam, browse)
- Bordered by large open fields on the north



WETLAND INVENTORY DATA FORM				
WETLAND ID: #16	CLASSIFICATIO PSS1/PFO1E	N: PFO1/SS1E; PEM1Eb;	ACREAGE: 67.5	
WEI PROJECT #: 06-076NH	SCIENTIST: Ear	SCIENTIST: Earle Chase		
WETLAND TYPE:				
WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	 ☑ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☒ Perennial Name: Name: ☐ Documented Description: 	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	⊠ Scrub-Shrub □ Tidal Order:	
WETLAND DESCRIPTION				
approximately equally classified a WETLAND PLANT COMMUN	active beaver activity was noted in a semergent, scrub-shrub or foreste	the northeastern and central no	neasterly flow down through this rtions of this wetland. The wetland is	
PSS1/PFO1Eb TREE LAYER Red maple	SAPLING LAYER Red maple	SHRUB LAYER Winterberry Speckled alder Northern arrowwood Meadowsweet	HERBACEOUS LAYER Tussock sedge Sphagnum moss Jewelweed Red top Swamp milkweed	
WETLAND SOILS DATA				
Soils are mapped as a (295) Green ayer.	wood mucky peat, very poorly dra	ained. Soil auguring within the	wetland revealed a thick 3-4' "O"	
WETLAND HYDROLOGY DA	<u>ΓΑ:</u>			
he upper reaches of Brown Brook, a perennial stream, drains in a southeasterly direction through this wetland. Wetland #16 isydrologically connected with Wetland #15.				
bearings to solviter				
WILDLIFE SIGNIFICANCE / A	DDITIONAL NOTES:			

Spotted turtle association with presence of tussock sedge

Evident roosting by bird species
Small fish noted from the crossing structure on Beede Hill Road

Adjacent uplands with large mast trees

WETLAND INVENTORY DATA FORM				
WETLAND ID: #17 WEI PROJECT #: 06-076NH	CLASSIFICATION: PUB/EM1H		ACREAGE: 18 DATE: August 2007	
WETLAND TYPE:				
☐ WOODED SWAMP ☑ MARSH ☐ WET MEADOW ☐ RIVER ☐ STREAM ☑ POND ☐ LAKE ☐ VERNAL POOL ☐ HUMAN MADE or OTHER	☐ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Beaver ☐ Potential	Scrub-Shrub Tidal Order:	
VETLAND DESCRIPTION				
This beaver pond includes a large open water area and a shallow marsh at its end				
VETLAND PLANT COMMUNITY DATA				
TREE LAYER Dead trees	<u>SAPLING LAYER</u>	SHRUB LAYER (DENSE) Maleberry (on edges) Highbush blueberry (on edge	HERBACEOUS LAYER Eastern burreed Woolgrass Broad-leaved cattail	

(97) Greenwood Ossipee soil ponded

'VETLAND HYDROLOGY DATA:

ronded to 4-6' deep by the beaver dam

- Wading bird, turtle / amphibian, water fowl and cavity nesting bird habitat
- Beaver / otter / mink habitat



WETLAND INVENTORY DATA FORM					
WETLAND ID: #18 & 19 WEI PROJECT #: 06-076NH	CLASSIFICATION: PFO4E SCIENTIST: Mark West		ACREAGE: 6 DATE: August 2007		
WETLAND TYPE: WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	 Deciduous Freshwater Shallow Ditched Upper Perennial Perennial Name: Documented Description: 	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	Scrub-Shrub Tidal Order:		
WETLAND DESCRIPTION Uniform red maple – hemlock swamp					
WETLAND PLANT COMMUNTREE LAYER Eastern hemlock Red maple White pine	SAPLING LAYER Eastern hemlock Red maple	SHRUB LAYER Winterberry Hemlock Highbush blueberry Northern wild raisin Hobblebush	HERBACEOUS LAYER Cinnamon fern Royal fern Goldthread Marsh fern Sphagnum moss Canada mayflower		
WETLAND SOILS DATA					

(395) Chocorua mucky peat

VETLAND HYDROLOGY DATA:

Seasonally flooded to less than 6"

- Potential deeryard habitat
- Otherwise, a uniform hemlock swamp



WETLAND INVENTORY DATA FORM				
WETLAND ID: #20 WEI PROJECT #: 06-076NH	CLASSIFICATION: PUB/SS1/FO1Hb SCIENTIST: Mark West		ACREAGE: 61 DATE: August 2007	
WETLAND TYPE:	 ☑ Deciduous ☑ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☑ Perennial Name: Loon Pond Name: ☐ Documented Description: 	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	Scrub-Shrub Tidal Order:	
Loon Pond is surrounded by a wooded swamp and includes a variety of wetland habitat.				
WETLAND PLANT COMMUN	ITY DATA			
TREE LAYER Red maple White pine (on edges)	<u>SAPLING LAYER</u>	SHRUB LAYER (DENSE) Maleberry Highbush blueberry Winterberry Buttonbush	HERBACEOUS LAYER Tussock sedge 3-way sedge Grasses Burreed Cinnamon fern Spadderdock Pond lilly	
WETLAND SOILS DATA				
97) Greenwood Ossipee soil pond	ed			

(395) Chocorua mucky peat

WETLAND HYDROLOGY DATA:

'ermanently flooded to 6+' with deep and shallow marsh transitioning into wooded swamp

- Very high wildlife habitat value
- Wading bird, turtle / amphibian, water fowl and cavity nesting bird habitat
- Beaver / otter / mink habitat
- Fisheries & recreation area



WETLAND INVENTORY DATA FORM				
WETLAND ID: #21 WEI PROJECT #: 06-076NH	CLASSIFICATIO SCIENTIST: Ma		ACREAGE: 17.8 DATE: August 2007	
WETLAND TYPE:				
WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	 ☑ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: ☐ Documented Description: 	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	Scrub-Shrub Tidal Order:	
WETLAND DESCRIPTION This is a very thick scrub-shrub / f		TV trail		
TREE LAYER Eastern hemlock Red maple	SAPLING LAYER Red maple Grey birch	SHRUB LAYER Winterberry Buttonbush Highbush blueberry Maleberry Meadowsweet Chokeberry	HERBACEOUS LAYER Cinnamon fern Blue joint grass Canada rush Tussock sedge Burreed Woolgrass Royal fern Goldenrod Asters Swamp dewberry	
WETLAND SOILS DATA				
97) Greenwood and Ossipee soils 115) Scarboro muck	ponded			

NETLAND HYDROLOGY DATA:

Seasonally flooded to depths of 2'

<u>WILDLIFE SIGNIFICANCE / ADDITIONAL NOTES:</u>

Thick scrub-shrub habitat bordered by old field, forest and ATV trail



WETLAND INVENTORY DATA FORM				
WETLAND ID: #22 WEI PROJECT #: 06-076NH	CLASSIFICATION: PFO1/4E SCIENTIST: Mark West		ACREAGE: 20.6 DATE: August 2007	
WETLAND TYPE:			·	
WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	Deciduous Freshwater Shallow Ditched Upper Perennial Perennial Name: Name: Documented Description:	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	Scrub-Shrub Tidal Order:	
WETLAND DESCRIPTION				
This is a moderate sized forested v		o the south that separates it from	Wetlands #23 & 25.	
NETLAND PLANT COMMUN	ITY DATA			
TREE LAYER Red maple Eastern hemlock	<u>SAPLING LAYER</u>	SHRUB LAYER Highbush blueberry Winterberry Sweet pepperbush Poison sumac Maleberry	HERBACEOUS LAYER Cinnamon fern Sphagnum moss Goldthread Bunchberry	
WETLAND COLLEDATA				

(395) Chocorua mucky peat

VETLAND HYDROLOGY DATA:

- Seasonally flooded / saturated
- Pockets of standing water
- Potential vernal pool habitat

<u>VILDLIFE SIGNIFICANCE / ADDITIONAL NOTES:</u>

- Potential vernal pool habitat
- Good forested wetland habitat with berry producing shrubs



WETLAND INVENTORY DATA FORM					
WETLAND ID: #23 WEI PROJECT #: 06-076NH	CLASSIFICATION SCIENTIST: Mark	ACREAGE: 4.6 DATE: August 2007			
WETLAND TYPE:					
₩OODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER WETLAND DESCRIPTION	 ☑ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description: 	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	Scrub-Shrub Tidal Order:		
WEILAND DESCRIPTION					
This is a smaller forested wetland VETLAND PLANT COMMUN	located in the northwest portion of	town in a cluster of wetlands.			
TREE LAYER Led maple White pine	SAPLING LAYER	SHRUB LAYER Highbush blueberry Winterberry Buttonbush Maleberry	HERBACEOUS LAYER Leatherleaf Sphagnum moss Sedges Tussock sedge		
<u>VETLAND SOILS DATA</u>					

(395) Chocorua mucky peat

'VETLAND HYDROLOGY DATA:

Seasonally flooded / saturated

WILDLIFE SIGNIFICANCE / ADDITIONAL NOTES:

Potential vernal pool habitat



WEILAND INVENTORY DATA FORM					
WETLAND ID: #24 WEI PROJECT #: 06-076NH	CLASSIFICATION SCIENTIST: Mark	ACREAGE: 9.8 DATE: August 2007			
WETLAND TYPE:					
☐ WOODED SWAMP ☐ MARSH ☐ WET MEADOW ☐ RIVER ☑ STREAM ☐ POND ☐ LAKE ☐ VERNAL POOL ☐ HUMAN MADE or OTHER	 ☑ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: ☐ Documented Description: 	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	Scrub-Shrub Tidal Order:		
WETLAND DESCRIPTION This is a smaller forested wetland WETLAND PLANT COMMUN	located in the northwest portion of	town in a cluster of wetlands.			
TREE LAYER Red maple White pine (dead) WETLAND SOILS DATA	SAPLING LAYER	SHRUB LAYER Highbush blueberry Winterberry Red maple	HERBACEOUS LAYER Blue joint grass Bidens (spp.) Sedges Cinnamon fern Grasses Bugleweed Bed straw Marsh fern		

(395) Chocorua mucky peat

WETLAND HYDROLOGY DATA:

Recently flooded by beaver and then drained

- Forested wetland habitat
- No aquatic habitat



WETLAND INVENTORY DATA FORM					
WETLAND ID: #25 WEI PROJECT #: 06-076NH	CLASSIFICATIO SCIENTIST: Ma		ACREAGE: 19.3 DATE: August 2007		
WETLAND TYPE: WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	Deciduous Freshwater Shallow Ditched Upper Perennial Perennial Name: Name: Documented Description:	 	Scrub-Shrub Tidal Order:		
WETLAND DESCRIPTION This is a medium-sized forested we cluster of wetlands in the northweel wetlands wetlands in the northweel wetlands w	st portion of town.	gum present in the canopy. Th	is is the easternmost wetland in the		
TREE LAYER Red maple White pine Red spruce Black gum	SAPLING LAYER	SHRUB LAYER Highbush blueberry Winterberry Sweet pepperbush Poison sumac Maleberry	HERBACEOUS LAYER Sphagnum moss Goldthread Bunchberry Cinnamon fern		
WETLAND SOILS DATA					
(295) Greenwood mucky peat					

WETLAND HYDROLOGY DATA:

- Seasonally flooded with pockets of standing water
- Drains southeast toward Wetland #26

<u>VILDLIFE SIGNIFICANCE / ADDITIONAL NOTES:</u>

- Potential vernal pool habitat
- Rare tree species present
- Note check eastern boundary



WETLAND INVENTORY DATA FORM					
WETLAND ID: #26 WEI PROJECT #: 06-076NH		CLASSIFICATION: SCIENTIST: Mark			GE: 11.2 August 2007
WETLAND TYPE:		•			
☐ WOODED SWAMP ☑ MARSH ☐ WET MEADOW ☐ RIVER ☐ STREAM ☐ POND ☐ LAKE ☐ VERNAL POOL ☐ HUMAN MADE or OTHER WETLAND DESCRIPTION	Deciduou Freshwate Ditched Upper Pe Perennial Name: Documen Description:	er Shallow rennial	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential		Scrub-Shrub Tidal ler:
This is a moderate sized marsh draw		ermittent stream with l	ots of standing dead	trees.	
Red maple	NG LAYER	SHRUB LAYER Steeplebush Highbush blueberr Red maple Winterberry	Cattail y Brown Budgev Scopar Panariu	sedge weed ia um (spp.) nake grass nites fern n (spp.)	Woolgrass Sphagnum moss Swamp loosestrife Tearthumb Lurid sedge Purple loosestrife St. John's wort Burreed Sedges
WETLAND SOILS DATA					
295) Greenwood mucky peat					

VETLAND HYDROLOGY DATA:

seasonally flooded with areas of permanent flooding adjacent beaver dam

- Wading bird, and water fowl habitat
- Trees for cavity nesting birds
- Turtle & amphibian habitat observed
- Beaver / mink / otter habitat



		WETLAND INV	ENTORY DATA	FORM	
WETLAND ID:		CLASSIFICAT PEM1E SCIENTIST: M	ION: PFO1/EM1E; Iark West		EAGE: 9.1 + 5 = 14 E: August 2007
WETLAND TY	Dr.				
	VAMP DW C N OL	Deciduous Freshwater Shallow Ditched Upper Perennial Perennial ame: ame: Documented escription:	☐ Evergreen ☐ Freshwater ☐ Grazed ☐ Lower Peren ☐ Intermittent ☐ Potential	•	⊠ Scrub-Shrub □ Tidal Order:
		with a forested wetland fee	ding into them.		
PFOI/EMIE TREE LAYER Red maple	SAPLING LAY Red maple		Mountain holly Buttonbush Sweet pepperbush Poison sumac	HERBACEOUS I Tussock sedge Joe pye weed Blue joint grass Marsh fern	AYER Willow herb Marsh marigold Arrow arrum Burreed
PUBH TREE LAYER PEMIE	<u>SAPLING LAY.</u>	ER SHRUB LAYER		HERBACEOUS I Tussock sedge Bidens (spp.) Pond lilly Spadderdock Rushes	AYER Cattail Burreed Cottongrass Woolgrass Purple loosestrife
TREE LAYER Dead trees	SAPLING LAYI	ER SHRUB LAYER		<u>HERBACEOUS L</u> Cattail	AYER Purple loosestrife Pickerel weed

[97] Greenwood and Ossipee soils ponded; underlain by ledge

WETLAND HYDROLOGY DATA:

Permanently flooded by beaver dams to 4' deep; open water areas drained by stream on southern end

- Beaver ponds with turtle, amphibian, wading bird, and water fowl habitats observed
- Beaver / mink / otter habitat



WETLAND INVENTORY DATA FORM					
WETLAND ID: #28 WEI PROJECT #: 06-076NH	CLASSIFICATION: PFO1/4E SCIENTIST: Mark West		ACREAGE: 4.5 DATE: August 2007		
WETLAND TYPE:					
WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	 ☑ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description: 	 Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	Scrub-Shrub Tidal Order:		
WETLAND DESCRIPTION					
WETLAND DESCRIPTION					
A basin-like wooded swamp draine	ed by an intermittent stream that flo	ows under Beede Hill Road into	Wetland #27		
WETLAND PLANT COMMUN TREE LAYER Eastern hemlock Red maple Yellow birch	ITY DATA SAPLING LAYER White ash	SHRUB LAYER Winterberry Spicebush Highbush blueberry	HERBACEOUS LAYER Cinnamon fern Poison ivy Goldthread Dwarf blackberry Sphagnum moss		

(395) Chocorua mucky peat

WETLAND HYDROLOGY DATA:

Seasonally flooded to depths of 12"

- Potential vernal pool habitat
- Otherwise, a uniform forested wetland



WETLAND INVENTORY DATA FORM					
WETLAND ID: #29 WEI PROJECT #: 06-076NH	CLASSIFICATION SCIENTIST: Mar	N: PEM1/SS1E & PUBH k West	ACREAGE: 9.8 DATE: August 2007		
WETLAND TYPE:					
 ◯ WOODED SWAMP ◯ MARSH ◯ WET MEADOW ◯ RIVER ◯ STREAM ◯ POND ◯ LAKE ◯ VERNAL POOL ◯ HUMAN MADE or OTHER 	☐ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	⊠ Scrub-Shrub □ Tidal Order:		
WETLAND DESCRIPTION					
This is a very thick scrub-shrub / f	orested wetland bisected by an Al	ΓV trail			
WETLAND PLANT COMMUN	IITY DATA				
TREE LAYER Red maple (edges) Dead trees	SAPLING LAYER	SHRUB LAYER Winterberry Buttonbush Highbush blueberry Leatherleaf	HERBACEOUS LAYER 3-way sedge Woolgrass Blue joint grass Swamp loosestrife Burreed Woodreed		
WETLAND SOILS DATA					
(395) Chocorua mucky peat					

VETLAND HYDROLOGY DATA:

Seasonally flooded to depths of 2' with pond area up to 4'

- Songbird, turtle / amphibian habitat
- Small pond wading bird habitat



WETLAND ID: #3	0			: PFO1E; PFO5/EM1 SS1Hb	Eb; ACREAGE: 10	
WEI PROJECT #:	06-076NH		SCIENTIST: Mark	West	DATE: Septemb	per 200 7
WETLAND TYPE:						
₩OODED SWA. MARSH WET MEADOW		Ditched	rater Shallow d	☐ Evergreen ☐ Freshwater Deep ☐ Grazed	⊠ Scrub-Sł □ Tidal	nrub
☐ RIVER ☐ STREAM ☐ POND ☐ LAKE		Upper I Perenni Name: Name:	Perennial ial	☐ Lower Perennial ☐ Intermittent ☐ Beaver	Order:	
VERNAL POOL HUMAN MADE	or OTHER	Docum Description		Potential		
WETLAND DESCR		beaver pond	ls connected by streams	With forested wetlands	s. This is a very diverse we	otlond nuction
WETLAND PLANT				with forested werlands	. This is a very diverse we	etiand system.
PF01E TREE LAYER Red maple	SAPLING A		SHRUB LAYER Royal fern Winterberry	Cinnamon fern Meadowsweet	HERBACEOUS LAYER Grasses 3-way sedge	Bugleweed
PFO5/EM1Eb TREE LAYER Red maple Dead trees	<u>SAPLING I</u>	LAYER	SHRUB LAYER		HERBACEOUS LAYER Eastern burreed Tearthumb Rattlesnake grass	Tussock sedge Joe pye weed Sedges (spp.)
PUB/SSIHb TREE LAYER Red maple	SAPLING 1 Red maple		SHRUB LAYER Meadowsweet Highbush blueberry	Winterberry Maleberry	HERBACEOUS LAYER Cranberry Royal fern	Marsh fern Tussock sedge
WETLAND SOILS I	JAIA					

WETLAND INVENTORY DATA FORM

(97) Greenwood and Ossipee soils ponded / (546A) Walpole very fine sandy loam

WETLAND HYDROLOGY DATA:

- Seasonally flooded to 3' deep
- Impounded by beaver dams to 3' deep
- Drained by intermittent stream west under Beede Hill Road

- Turtle / amphibian habitat
- Cavity nesting bird, songbird, and water fowl habitat
- Beaver / mink / otter habitat
- Woodcock, solitary sandpipers, wood duck and black duck observed



WETLAND INVENTORY DATA FORM				
WETLAND ID: #31 & 32 WEI PROJECT #: 06-076NH	CLASSIFICATION SCIENTIST: Earle	f: PEM1Fb/PEM1Eb Chase	ACREAGE: 13 DATE: September 2007	
WETLAND TYPE:				
WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	☐ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description:	 □ Evergreen □ Freshwater Deep □ Grazed □ Lower Perennial □ Intermittent □ Potential 	Scrub-Shrub Tidal Order:	
WETLAND DESCRIPTION				
This wetland contains an active be	eaver colony. Wetlands #31 & 32 a nmunity chiefly consists of both sh wetland.	re now merged due to the backin allow and deep marsh. Ridge R	ng up of surface water by current oad, a Town Class VI road	
WETLAND DIANT COMMUN	HTTM DATES			
WETLAND PLANT COMMUN				
TREE LAYER A few snags	<u>SAPLING LAYER</u>	SHRUB LAYER Maleberry Highbush blueberry Steeplebush	HERBACEOUS LAYER Broad-leaved cattail Woolgrass Rattlesnake grass	
WETLAND SOILS DATA				

(295) Greenwood mucky peat, very poorly drained

WETLAND HYDROLOGY DATA:

An open water area was evident in the most northern (PEM1Fb) wetland component.

WILDLIFE SIGNIFICANCE / ADDITIONAL NOTES:

Beaver activity noted (active dam, lodge, browse)



WETLAND INVENTORY DATA FORM					
WETLAND ID: #33 WEI PROJECT #: 06-076NH	CLASSIFICATION SCIENTIST: Mark	-	ACREAGE: 7.5 DATE: August 2007		
WETLAND TYPE:					
WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	Deciduous Freshwater Shallow Ditched Upper Perennial Perennial Name: Name: Documented Description:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	⊠ Scrub-Shrub ☐ Tidal Order:		
WETLAND DESCRIPTION This is a very thick scrub-shrub wetland that drains west under Beede Hill Road into Wetland #27					
WETLAND PLANT COMMUN	ITY DATA				
TREE LAYER Red maple (sparse)	SAPLING LAYER Red maple	SHRUB LAYER (DENSE) Winterberry Buttonbush Highbush blueberry Northern arrowwod Meadowsweet	HERBACEOUS LAYER Tussock sedge Cinnamon fern		

(395) Chocorua mucky peat

WETLAND HYDROLOGY DATA:

seasonally flooded to depths of 2'

- Songbird, turtle / amphibian habitat Dense berry producing shrubs



	WETLAND IN	VENTORY DATA FORM	
WETLAND ID: #34 WEI PROJECT #: 06-076NH	CLASSIFICATION: PFO5/SS1/EM1E SCIENTIST: Mark West		ACREAGE: 6 DATE: August 2007
WETLAND TYPE: ☐ WOODED SWAMP ☐ MARSH ☐ WET MEADOW	☐ Deciduous ☐ Freshwater Shallow	Evergreen Freshwater Deep	☐ Scrub-Shrub ☐ Tidal
☐ WET MEADOW ☐ RIVER ☐ STREAM ☐ POND ☐ LAKE ☐ VERNAL POOL	☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented	Grazed Lower Perennial Intermittent Beaver	Order:
WETLAND DESCRIPTION This is a small marsh habitat with	Description: dead trees. This wetland drai		
WETLAND PLANT COMMUN	IITY DATA		
TREE LAYER Dead	SAPLING LAYER Red maple	SHRUB LAYER (DENSE) Maleberry Highbush blueberry	HERBACEOUS LAYER Broad-leaved cattail Tussock sedge Marsh fern Swamp dewberry Reed canary grass

(395) Chocorua mucky peat

WETLAND HYDROLOGY DATA:

Seasonally flooded to 18"

- Songbird, amphibian and cavity nesting bird habitat
- Adjacent to recreational hiking trails



od.	WETLAND INV	ENTORY DATA FORM	
WETLAND ID: #35 WEI PROJECT #: 06-076NH	CLASSIFICATI SCIENTIST: M	ION: PEM1/UBHb & PFO1E	ACREAGE: .28 DATE: August 2007
WETLAND TYPE:			
 WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER 	 ☑ Deciduous ☑ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description: 	 □ Evergreen □ Freshwater Deep □ Grazed □ Lower Perennial □ Intermittent □ Beaver □ Potential 	Scrub-Shrub Tidal Order:
WETLAND DESCRIPTION This large beaver pond includes a	n open water, shallow and deep	marsh habitat drained by a tributar	ry stream to the Exeter River.
WETLAND PLANT COMMUN	NITY DATA		
TREE LAYER Red maple (on edges) Grey birch White pine	SAPLING LAYER	SHRUB LAYER (DENSE) Buttonbush Winterberry Highbush blueberry Northern arrowwood	HERBACEOUS LAYER Broad-leaved cattail Tussock sedge Marsh fern Fringed sedge Eastern burreed Pickerel weed Pond lilly Spadderdock Royal fern

(97) Greenwood Ossipee soils ponded (295) Greenwood mucky peat

VETLAND HYDROLOGY DATA:

Permanently flooded to 6' by beaver dam with shallower flooding in forested fingers

- Water fowl, wading bird turtle / amphibian and cavity nesting bird habitat
- Large deep marsh component
- Beaver / mink / otter habitat bordered by recreation trails



	WETLAND INVEN	TORY DATA FORM	
WETLAND ID: #36 WEI PROJECT #: 06-076NH	CLASSIFICATION SCIENTIST: Mark	: PFO5/EM1/UBHb	ACREAGE: 8.3 DATE: September 2007
WETLAND TYPE: □ WOODED SWAMP □ MARSH □ WET MEADOW □ RIVER □ STREAM □ POND □ LAKE □ VERNAL POOL □ HUMAN MADE or OTHER	☐ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description:	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Beaver Potential	Scrub-Shrub Tidal Order:
WETLAND DESCRIPTION This small beaver pond appears to WETLAND PLANT COMMUN	be abandoned. It is adjacent to a li	umberyard and has historic distu	irbance in its buffers.
TREE LAYER Dead	SAPLING LAYER Birch	SHRUB LAYER Meadowsweet	HERBACEOUS LAYER Woolgrass Tussock sedge Rattlesnake grass Eastern burreed 3-way sedge
WETLAND SOILS DATA (395) Chocorua mucky peat			

WETLAND HYDROLOGY DATA:

Seasonally flooded to 3' deep

- Turtle / amphibian habitat
- Cavity nesting bird habitat
- Historic disturbance around this wetland



	WI	ETLAND INVEN	TORY DA	TA FORM		
WETLAND ID: #37 WEI PROJECT #: 06-		CLASSIFICATION SCIENTIST: Mark			ACREAGE: 6	•
WETLAND TYPE:						
₩OODED SWAMP MARSH WET MEADOW RIVER STREAM POND	☐ Deciduo ☐ Freshwa ☐ Ditched ☐ Upper P ☐ Perennia Name:	ter Shallow erennial	Grazed	ater Deep Perennial	⊠ Scrub-S □ Tidal Order:	Shrub
LAKE VERNAL POOL HUMAN MADE or (Name: Docume THER Description:		Potentia	ıl		
WETLAND DESCRIPTION This wetland is located at thrub and emergent flood WETLAND PLANT CO	the confluence of the	Exeter River and an us beaver activity in por	nnamed strea	m that drains Wetlar wetland.	ıd #35. It inclu	ides forested, scrub-
PSSI/EMIE PREE LAYER Red maple	SAPLING LAYER Red maple	SHRUB LAYER Speckled alder Highbush blueber Northern arrowwo Meadowsweet Silky dogwood Buttonbush		HERBACEOUS LA Tussock sedge Cinnamon fern Burreed Sweet flag Blue joint grass Marsh fern Tearthumb Reed canary grass	Smar Picke Arrov Wool Wate 3-way Swam	rtweed Frel weed whead grass r hemlock y sedge ip candle
PFOIE TREE LAYER Red maple WETLAND SOILS DATE	SAPLING LAYER Red maple	SHRUB LAYER Speckled alder Buttonbush		HERBACEOUS LA Tussock sedge Royal fern	Jewel	weed rel weed
DIEMID SUILS DA						

295) Greenwood mucky peat

VETLAND HYDROLOGY DATA:

Seasonally flooded by river with active floodplain oxbows and backwater areas

- High value songbird, wading bird, and water fowl habitat
- Fisheries habitat associated with river
- Turtle & amphibian habitat observed
- Beaver / mink / otter habitat
- High value upland buffers including large hay field



	WETLAND INVEN	NTORY DATA FORM	
WETLAND ID: #38 WEI PROJECT #: 06-076NH	CLASSIFICATION: PEM1/SS1E SCIENTIST: Mark West		ACREAGE: 3 DATE: August 2007
WETLAND TYPE: ☐ WOODED SWAMP ☐ MARSH ☐ WET MEADOW ☐ RIVER ☐ STREAM ☐ POND ☐ LAKE ☐ VERNAL POOL ☐ HUMAN MADE or OTHER	☐ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description:	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	☐ Scrub-Shrub ☐ Tidal Order:
WETLAND DESCRIPTION This is a small marsh associated w	·	er River.	
WETLAND PLANT COMMUN TREE LAYER	ITY DATA SAPLING LAYER	SHRUB LAYER (DENSE) Speckled alder Meadowsweet Winterberry	HERBACEOUS LAYER Blue joint grass Jewelweed Sensitive fern Sedges Smartweed

(97) Greenwood Ossipee soils ponded

WETLAND HYDROLOGY DATA:

Seasonally flooded to 2' deep

WILDLIFE SIGNIFICANCE / ADDITIONAL NOTES:

Some amphibian and marsh bird habitat



	WETL	AND INVENTO	DRY DATA FO	RM	
WETLAND ID: #39	CLA	ASSIFICATION: F PEM1/U	PSS1/FO1Eb; BHb; PSS1/EM1E	ACREAGE	: 76
WEI PROJECT #: 06-070	SNH SCI	ENTIST: Mark W	est	DATE: Au	gust 2007
WETLAND TYPE:	-				
 WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTI 	☐ Deciduous ☐ Freshwater S ☐ Ditched ☐ Upper Perent ☐ Perennial Name: Name: ☐ Documented HER Description:		Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential		ub-Shrub al
WETLAND DESCRIPTION	<u>DN</u>				
This large wooded swamp howetland located east of Sand WETLAND PLANT COM PSSI/FO1Eb TREE LAYER Red maple Black gum Yellow birch Hemlock (on edges)	lown Road where it is co	astern end where it is onnected by an old be SHRUB LAYER Highbush blue Winterberry Maleberry	berry Cinn Spha Swee	BACEOUS LAYER amon fern ignum moss et flag	a small finger of this Woolgrass Marsh marigold Blue flag
PEMI/UBHb	<u>SAPLING LAYER</u>	SHRUB LAYER Highbush bluel Maleberry Sweet pepperb	berry Easte Broad	BACEOUS LAYER ern burreed d-leaf cattail es	3-way sedge Bidens (spp.)
PSSI/EMIE TREE LAYER	SAPLING LAYER	SHRUB LAYER Buttonbush Northern arrow Meadowsweet	Blue j wwood Mars	BACEOUS LAYER joint grass h fern tweed	Tussock sedge 3-way sedge Burreed

295) Greenwood mucky peat & (97) Greenwood and Ossipee soils ponded

WETLAND HYDROLOGY DATA:

Seasonally flooded with beaver dams and open water areas adjacent to beaver dam

- Large forested swamp with songbird and water fowl habitat
- Turtle habitat
- Beaver / mink / otter habitat



	WETLAND INVEN	TORY DATA FORM	
WETLAND ID: #40 WEI PROJECT #: 06-076NH	CLASSIFICATION SCIENTIST: Mark		ACREAGE: 12 DATE: September 2007
WETLAND TYPE:			
WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	 ☑ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description: 	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	⊠ Scrub-Shrub □ Tidal Order:
WETLAND DESCRIPTION Forested wetland associated with a WETLAND PLANT COMMUN	an intermittent stream along the Ray	ymond town line in the western	n boundary of Fremont.
TREE LAYER Red maple	SAPLING LAYER Red maple Grey birch American elm	SHRUB LAYER Winterberry Highbush blueberry	HERBACEOUS LAYER Tussock sedge Cattail Woolgrass Sedges Marsh fern Joe pye weed Purple loosestrife
WETLAND SOILS DATA			
295) Greenwood mucky peat			
WETLAND HYDROLOGY DA	<u>ΓA:</u>		
seasonally flooded to 12"			

dot as high value as other wetlands due to disturbance associated with adjacent development



		WETLAND INVEN	TORY DATA FO	RM	
_WETLAND ID: #4	1	CLASSIFICATION PFO	N: PEM1/SS1E; 1/SS1/EM1Eb	ACREAGE: 88	3
WEI PROJECT #:	06-076NH	SCIENTIST: Mark	« West	DATE: August	2007
WETLAND TYPE:	N.				
WOODED SWAR MARSH WET MEADOW RIVER STREAM POND LAKE	☐ Fres☐ Ditc☐ Upp☐ Pere Name: Name:	hwater Shallow hed er Perennial nnial	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent	⊠ Scrub-S □ Tidal Order:	Shrub
☐ VERNAL POOL☐ HUMAN MADE		imented ion:	Potential		
wetland is bordered b	s two large shallow ma	and is grazed in portions.	y a stream with areas of	scrub-shrub and forested	wetlands. The
PEMI/SSIE TREE LAYER	<u>SAPLING LAYER</u>	SHRUB LAYER		<u>HERBACEOUS</u>	
	Red maple	Glossy leaved buckthorn Winterberry Meadowsweet Speckled alder Highbush blueberry	Buttonbush Steeplebush Black willow Pussy willow	LAYER Woodreed Blue joint grass Tussock sedge Rattlesnake grass Broad-leaved cattail	Reed canary grass Jewelweed Tearthumb Burreed
PFOI/SSI/EMIEb TREE LAYER	SAPLING LAYER	SHRUB LAYER		HERBACEOUS	
Red maple		Winterberry Maleberry Glossy leaved buck	thorn	LAYER Reed canary grass Cardinal flower Joe pye weed	Fringed sedge Hop sedge Goldenrod

'<u>WETLAND HYDROLOGY DATA:</u>

Seasonally flooded with several beaver dams along the stream system that drains at the western end

<u>VILDLIFE SIGNIFICANCE / ADDITIONAL NOTES:</u>

- Shallow marsh bird habitat with great blue herons observed
- Turtle habitat with turtles observed
- Water fowl habitat no fisheries



		V	VETLAND INV	ENTORY DATA	FORM		
WETLAND ID: #			CLASSIFICATI SCIENTIST: M	ION: PFO1/SS1/EM1 Iark West		CREAGE: 2	
WETLAND TYP	<u>E:</u>						
	W	Ditch	water Shallow ed r Perennial nial mented	☐ Evergreen ☐ Freshwater D ☐ Grazed ☐ Lower Perenr ☐ Intermittent ☐ Beaver ☐ Potential	•	⊠ Scrub □ Tidal Order: 2r	
WETLAND DESC	CRIPTION						
This is the second I flows through it to wertand Plan COMMUNITY D	the west and Sa			e southwest corner of to	own and extend	s into Cheste	r. The Exeter River
TDEELAVED	CADLINGI	AVED	CHDIDIAVED		HERR AGE	NIG LAVED	
REE LAYER Red maple American elm Green ash	SAPLING LA American el Red maple		SHRUB LAYER Speckled alder Winterberry Northern arrowwood Meadowsweet Sweet pepperbush Maleberry Highbush blueber	Winterberry	HERBACEO Cinnamon Royal fern Marsh fern Sphagnum Poison ivy Tussock sed Sweet flag	fern B V A moss G Jo lge S	lue joint grass Vater hemlock sters Foldenrod pe pye weed ensitive fern irginia creeper
WETLAND SOIL	SDATA				2		

(295) Greenwood mucky peat

VETLAND HYDROLOGY DATA:

Wetland is seasonally flooded to 3' deep by the Exeter River

- Large size of the wetland and thick scrub-shrub growth provide high value wildlife habitat
- Fisheries in the Exeter River
- Water fowl, songbird, turtle / amphibian, and beaver / mink / otter habitat



		W	ETLAND IN	IVEN'	TORY DATA I	ORM		
WETLAND ID: #			CLASSIFICA SCIENTIST:		: PSS1/3/EM1H &	: PUBH	ACREAGE	
WETLAND TYPI	E:							
	W L	Ditche	vater Shallow d Perennial ial		Evergreen Freshwater De Grazed Lower Perenn Intermittent Beaver Potential	•	⊠ Scr □ Tio	
WETLAND DESC	CRIPTION							
This is a large bog-leastern end. WETLAND PLANCOMMUNITY DA	<u>rr</u>	cated in the	southwest portion	on of to	wn along the Sando	wn town lir	ne. It is drain	ned by a stream in its
PSS1/3/EM1E TREE LAYER	<u>SAPLING LA</u>		SHRUB LAYER Leatherleaf Steeplebush Meadowsweet Red maple		Bayberry Sweet gale Winterberry	HERBAC 3-way see Canada I Soft rush Swamp le	rush	R Swamp candle Sedges Eastern burreed Tussock sedge
PUBH FREE LAYER	SAPLING LA		SHRUB LAYER Maleberry Sweet pepperbu	ısh		HERBAC LAYER Eastern t Spadderd Arrow ar Tussock s	ourreed lock rum	Switchgrass Pickerel weed Rattlesnake grass
WETLAND SOILS	DATA							

(97) Greenwood and Ossipee soils ponded

295) Greenwood mucky peat

VETLAND HYDROLOGY DATA:

Wetland is permanently flooded to 3' deep from beaver dams and feeds into an intermittent stream

WILDLIFE SIGNIFICANCE / ADDITIONAL NOTES:

Inique plant community with a wide variety of habitat including water fowl, wading bird, turtle / amphibian, and beaver / mink / otter_abitat



	WETLAND INVENTORY DATA FORM						
WETLAND ID: #44 WEI PROJECT #: 06-076NH	CLASSIFICATIO SCIENTIST: Ear	N: PEM1E; PFO1/SS1E; PFO1/4; PUBHb le Chase	ACREAGE: 11.1 DATE: September 2007				
WETLAND TYPE:							
 WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER 	 ☑ Deciduous ☑ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☑ Perennial Name: Name: ☐ Documented Description: 	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	Scrub-Shrub Tidal Order:				
	or activity have contributed to the		beaver have abandoned the lower etland classifications within this wetlan				
Emergent component (East of Ta							
TREE LAYER Dead snag	SAPLING LAYER Red maple	SHRUB LAYER Buttonbush Steeplebush	HERBACEOUS LAYER Broad-leaved cattail Woolgrass Joe pye weed Tussock sedge Reed canary grass Jewelweed Smartweed Goldenrod (spp.) Royal fern (on perimeter)				
VETI AND COLLE DATA							
<u>VETLAND SOILS DATA</u>							

WETLAND HYDROLOGY DATA:

- Evidence of extended inundation (mortality of both white pine and eastern hemlock)
- Broken perennial channel flowage drains in a southeasterly direction then to the north, eventually outleting to the Exeter River

- Solitary sandpiper (visual) Whirlygig beetles
- Wildlife corridor
- White-tailed deer stand noted



	WETLAND INVEN	TORY DATA FORM	
WETLAND ID: #45 WEI PROJECT #: 06-076NH	CLASSIFICATION: PSS1/EM1E SCIENTIST: Earle Chase		ACREAGE: 12.8 DATE: September 2007
WETLAND TYPE:			
 WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER 	Deciduous Freshwater Shallow (33%) Ditched Upper Perennial Perennial Name: Name: Documented Description:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	Scrub-Shrub (66%) Tidal Order:
WETLAND DESCRIPTION The main component of this wetla function as a spillover area during	nd is scrub-shrub / emergent. It is cyclic flooding. An intermittent st	situated nest to a prior oxbover ream flows from the wetland	w of the Exeter River, and appears to I in a southeasterly direction.
WETLAND PLANT COMMUN	NITY DATA		
TREE LAYER	<u>SAPLING LAYER</u>	SHRUB LAYER Buttonbush Sweet gale Meadowsweet Silky dogwood	HERBACEOUS LAYER Broad-leaved cattail Swamp milkweed Royal fern (on perimeter) Lurid sedge False nettle (on perimeter)
WETLAND SOILS DATA			
According to the Rockingham Cou	anty Soil Survey, the wetland soil is	mapped as a (395) Chocoru	a mucky peat, very poorly drained.
VETLAND HYDROLOGY DA	та.		
Cyclic floodingSeveral obligate wetland p		channel	

- Green frog (visual)
- Whirlygig beetles (visual)
- Water strider (visual)
- Beaver (prior browse)
- Mink (tracks)
- Raccoon (tracks)
- Sandpiper (tracks)



	WETLAND INVENTORY DATA FORM				
WETLAND ID: #46 WEI PROJECT #: 06-076NH	CLASSIFICAT SCIENTIST: E	ACREAGE: 35.8 DATE: September 2007			
VETLAND TYPE:	1				
 ₩OODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE WERNAL POOL HUMAN MADE or OTHER 	 Deciduous (50%) Freshwater Shallow Ditched Upper Perennial Perennial Name: Name: Documented Description: 	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	Scrub-Shrub (50%) Tidal Order:		
his is a forested scrub-shrub we	tland. Red Brook Road divides	this wetland. A perennial stream	originating at Spruce Swamp cross ne south and west by prior / ongoing		
ravel operations.					
VETLAND PLANT COMMU	NITY DATA				
	***	SHRI/R I 4VFR	HEDDACEOUS LAVED		
REE LAYER ed maple	<u>NITY DATA</u> <u>SAPLING LAYER</u> Red maple	SHRUB LAYER Pepperbush Winterberry Northern arrowwood Maleberry Meadowsweet	HERBACEOUS LAYER Tussock sedge Cinnamon fern Royal fern Sphagnum moss		
REE LAYER ed maple cattered softwood	SAPLING LAYER	Pepperbush Winterberry Northern arrowwood Maleberry	Tussock sedge Cinnamon fern Royal fern		
REE LAYER ed maple cattered softwood	SAPLING LAYER	Pepperbush Winterberry Northern arrowwood Maleberry	Tussock sedge Cinnamon fern Royal fern		
VETLAND PLANT COMMUNICATION PLANT COMMUNICATIO	SAPLING LAYER Red maple unty Soil Survey, the wetland so	Pepperbush Winterberry Northern arrowwood Maleberry Meadowsweet	Tussock sedge Cinnamon fern Royal fern		
CREE LAYER Red maple cattered softwood VETLAND SOILS DATA ccording to the Rockingham Cor	SAPLING LAYER Red maple unty Soil Survey, the wetland so 13.5-4' of peat.	Pepperbush Winterberry Northern arrowwood Maleberry Meadowsweet	Tussock sedge Cinnamon fern Royal fern Sphagnum moss		

- Surfacial rooting
- Tree throw
- A perennial stream bisects the southern component of this wetland, draining in a southwesterly direction
- Proximity to

- Grey catbird (audio)
- White-tailed deer (tracks)
- The southern wetland component was posted against hunting



	WETLAND INVE	ENTORY DATA FORM	
WETLAND ID: #47 WEI PROJECT #: 06-076NH	CLASSIFICATION SCIENTIST: Ear	ON: PSS1Eb/PFO1Eb	ACREAGE: 13.6 DATE: 5/3/07
WETLAND TYPE:			
 WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER 	Deciduous (40%) Freshwater Shallow Ditched Upper Perennial Perennial Name: Name: Documented Description:	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	Scrub-Shrub (60%) Tidal Order:
WETLAND DESCRIPTION This wetland is actively being occoverstory. An intermittent stream WETLAND PLANT COMMUN	connects this wetland with Sprud	munity consists of a thick scrub ce Swamp (Wetland #1).	-shrub layer with a hardwood tree
TREE LAYER Red maple (with snags)	SAPLING LAYER Red maple	SHRUB LAYER Highbush blueberry Winterberry Maleberry	<u>HERBACEOUS LAYER</u> Cinnamon fern (on perimeter)
Note: Mayflower, a "species of	concern" was observed in the a	djacent uplands	
WETLAND SOILS DATA The wetland soil is mapped as a (4 soils.	.95) Ossipee mucky peat, very po	oorly drained. Depth of the stan	ding water prevented field assessment of
WETLAND HYDROLOGY DA	<u>TA:</u>		

- Standing water; the current level of hydrology is being influenced by beaver activity
- Wetland #47 appears hydrologically connected with Wetland #1 (Spruce Swamp) by an intermittent stream
- Additional flowage is received from a forested wetland located on the northeast

- Wetland #47 is actively occupied by beaver (browse / canal)
- Belted kingfisher (in flight)
- White-tailed deer (adjacent travel corridor)
- Frog (spp.)
- Water strider
- Basking logs evident



	WETLAND INVEN	TORY DATA FORM	
WETLAND ID: #48 WEI PROJECT #: 06-076NH	CLASSIFICATION SCIENTIST: Earle	. : PSS1/PEM1E & PFO5E Chase	ACREAGE: 20 DATE: 5/2/07
WETLAND TYPE:			
 WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND 	☐ Deciduous ☐ Freshwater Shallow (40%) ☐ Ditched ☐ Upper Perennial ☐ Perennial Name:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent	⊠ Scrub-Shrub (40%) ☐ Tidal Order:
☐ LAKE ☐ VERNAL POOL ☐ HUMAN MADE or OTHER	Name: Documented Description:	Potential	
WETLAND DESCRIPTION			
This wetland is both emergent and	d scrub-shrub. An intermittent strea	m bisects the wetland flowing	in a northeasterly direction.
WETLAND PLANT COMMUN	NITY DATA		
TREE LAYER Red maple with dead snag component	SAPLING LAYER Red maple	SHRUB LAYER Winterberry Meadowsweet Steeplebush Highbush blueberry Maleberry	HERBACEOUS LAYER Broad-leaved cattail Tussock sedge Sphagnum moss Swamp dewberry Wetland grass (spp.)
WETLAND SOILS DATA			
This soil is mapped as a (97) Gree	nwood and Ossipee, ponded, very p	oorly drained.	

WETLAND HYDROLOGY DATA:

- Standing water
- Stream channel evident
- No apparent hydrological connection with adjacent pond
- Proximity to aquifer

- American toad (calling)
- Killdeer (visual)
- White-tailed deer (scat)
- Potential turtle nesting habitat (sandy/gravel substrate, formerly used as gravel pit)
- Water strider
- Whirligig beetle



	WEILANDINVE	NIORY DATA FORM	
WETLAND ID: #49 WEI PROJECT #: 06-076NH	CLASSIFICATIO SCIENTIST: Earl	N: PSS1E/PEM1E	ACREAGE: 38 DATE: 5/2/07
WETLAND TYPE:			
 WOODED SWAMP MARSH WET MEADOW RIVER - Exeter River STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER 	☐ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	⊠ Scrub-Shrub □ Tidal Order: 4th
WETLAND DESCRIPTION This wetland complex contains a the two independent wetland systems.		ssociated scrub-shrub / emerge	ent wetland. A perennial stream connects
WETLAND PLANT COMMUN Wetland component SE of Old 1 TREE LAYER		SHRUB LAYER Winterberry Buttonbush Highbush blueberry	HERBACEOUS LAYER Tussock sedge

This soil is mapped as a (395) Chocorua mucky peat, very poorly drained.

WETLAND HYDROLOGY DATA:

- Large open water component
- Evident river channel (Exeter River) flowing easterly
- Standing water evident in scrub-shrub wetland adjacent Old Danville Road
- Associated perennial brook that drains in a northwesterly direction
- Proximity to aquifer

- Painted turtles (visual)
- Red-winged blackbird (visual)
- Frog species (visual)



WETLAND INVENTORY DATA FORM				
WETLAND ID: #50 (accessed by Ke WEI PROJECT #: 06-076NH	rlin Road)	CLASSIFICATION SCIENTIST: Earle		ACREAGE: 3 DATE: 6/9/07
WETLAND TYPE: WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	Ditched	ater Shallow I Perennial al	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	Scrub-Shrub Tidal Order:
WETLAND DESCRIPTION This is a forested scrub-shrub weth resembles an exemplary plant comstatus. WETLAND PLANT COMMUN	imunity refer	nt community's descript red to as a Nutrient-Poo	tion and location in a very poor or Basin Swamp. This wetland	ly drained depression closely 's small size probably limits its full
TREE LAYER Red maple Black gum White pine (scattered)	SAPLING I Red maple Yellow bird		SHRUB LAYER (DENSE) Pepperbush Highbush blueberry Winterberry Eastern hemlock	HERBACEOUS LAYER Cinnamon fern Sphagnum moss Goldthread Canada mayflower
WETLAND SOILS DATA This wetland is mapped as a (125)	Scarboro mu	ck, very poorly drained	. Soil auguring in the field reve	ealed a 3' "O" layer.

WETLAND HYDROLOGY DATA:

- 3-4" of standing water
- Pit & mound topography
- Surfacial roots

- Rabbit species (scat)
- Well traveled wildlife corridor situated between the wetland and Karlin Road
- River otter (scat with fish scales)

	WETLAND INVEN	TORY DATA FORM	
WETLAND ID: #52 WEI PROJECT #: 06-076NH	CLASSIFICATION SCIENTIST: Mark		ACREAGE: 3.2 DATE: September 2007
WETLAND TYPE:			
 WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER 	☐ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: Name: ☐ Documented Description:	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	Scrub-Shrub Tidal Order:
WETLAND DESCRIPTION This is a small abandoned beaver p	pond that has transitioned into a sha	allow marsh / wet meadow.	
WETLAND PLANT COMMUN	ITY DATA		
TREE LAYER Dead	<u>SAPLING LAYER</u>	SHRUB LAYER	HERBACEOUS LAYER Grasses Lurid sedge Woolgrass Bidens (spp.)
WETLAND SOILS DATA (395) Chocorua mucky peat			

WETLAND HYDROLOGY DATA:

- Seasonally flooded to 2' by beaver dam Downstream of Wetland #26

- Good grazing habitat for white-tailed deer
- Cavity trees for songbirds



WEI PROJECT #: 06-076NI	CLASSIFICATI H SCIENTIST: Ea		ACREAGE: 6 DATE: June 2007
WETLAND TYPE:			
 □ WOODED SWAMP □ MARSH ☑ WET MEADOW □ RIVER □ STREAM □ POND □ LAKE □ VERNAL POOL □ HUMAN MADE or OTHE 	Deciduous Freshwater Shallow Ditched Upper Perennial Perennial Name: Name: Documented Description:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent ☐ Potential	Scrub-Shrub Tidal Order:
WETLAND DESCRIPTION			
upland grasses. Due to the pre- open habitat. WETLAND PLANT COMM	sence of poorly drained soils, hayi	ng is delayed here, allowing the	w being comprised of chiefly wetland and nesting of songbird species, requiring
TREE LAYER	SAPLING LAYER has been historically altered by	SHRUB LAYER	HERBACEOUS LAYER Red top Timothy grass Sensitive fern Buttercup (spp.) Spike rush
	arming and harvesting of hay		Green bulrush
-			
WETLAND SOILS DATA			
Squamscott fine sandy loam, al	lso a poorly drained soil. Both soil in the wetter and lower reaches of	units may contain inclusions o	silt loam, a poorly drained or a (538A) f Maybid (up to 15%). Soil auguring in to the smaller percentage of Hydric A

- Red-winged blackbird (visual) Potential high-valued songbird nesting habitat due to the adjacent large open fields



WETLAND INVENTORY DATA FORM				
WETLAND ID: #54 WEI PROJECT #: 06-076NH	CLASSIFICATIO SCIENTIST: Ear		ACREAGE: 4.2 DATE: September 2007	
WETLAND TYPE: WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	 ☑ Deciduous ☐ Freshwater Shallow ☐ Ditched ☐ Upper Perennial ☐ Perennial Name: ☐ Documented Description: 	Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	Scrub-Shrub Tidal Order:	
WETLAND DESCRIPTION This is a forested wetland. Prior lof the wetland. WETLAND PLANT COMMUN		within the wetland. A newer roa	ad and cul-de-sac is situated just south	
TREE LAYER Red maple Eastern hemlock (interspersed)	SAPLING LAYER Red maple Eastern hemlock	SHRUB LAYER Winterberry Eastern hemlock White pine	HERBACEOUS LAYER Cinnamon fern Swamp dewberry Canada mayflower	
WETLAND SOILS DATA Soil auguring in the wetland revea This soil unit may contain inclusion		v soil was noted. Soils are mappe	ed as a (547B) Walpole, poorly drained.	
WETLAND HYDROLOGY DA	.TA:			

- Pit & mound topography Some standing water

A thick understory of white pine provided good wildlife cover



	WETL	AND INVENTO	RY DATA FOI	RM	
WETLAND ID: #55		SSIFICATION: PF	'01C	ACREAGE:	32
WEI PROJECT #: 06-076NH	SCII	ENTIST: Mark Wes	t	DATE: Aug	ust 2007
WETLAND TYPE:					
WOODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER	Deciduous Freshwater St Ditched Upper Perenn Perennial Name: Name: Documented Description:		Evergreen Freshwater Deep Grazed Lower Perennial Intermittent Potential	☐ Scru ☐ Tida Order:	ib-Shrub il
This is a moderate sized forested		y an esker to the soutl	n that separates it fi	rom Wetlands #23 & 2	25.
<u>VETLAND PLANT COMMU</u>					
	<u>PLING LAYER</u> d maple	SHRUB LAYER Highbush bluebe Winterberry Northern arrow Silky dogwood Meadowsweet Buttonbush	erry Cinna Royal wood Marsh Sedges Burre	n fern s	Cardinal flower Joe pye weed Smartweed Duck potato Bugleweed

(395) Chocorua mucky peat

VETLAND HYDROLOGY DATA:

Seasonally flooded with backwaters and old oxbows

- Fisheries habitat associated with river
- Turtle & amphibian habitat
- Beaver / mink / otter habitat



	WETLAND INVI	ENTORY DATA FORM		
WETLAND ID: #56 WEI PROJECT #: 06-076NF	CLASSIFICATION: PFO1E/SS1E SCIENTIST: Earle Chase		ACREAGE: 5 DATE: 8/31/07	
WETLAND TYPE:				
 ₩OODED SWAMP MARSH WET MEADOW RIVER STREAM POND LAKE VERNAL POOL HUMAN MADE or OTHER 	Deciduous Freshwater Shallow Ditched Upper Perennial Perennial Name: Name: Documented Description:	☐ Evergreen ☐ Freshwater Deep ☐ Grazed ☐ Lower Perennial ☐ Intermittent (however, the flowage is	Scrub-Shrub Tidal Order: more consistent than not)	
	an ection to office Ros	with a scrub-shrub understory. An ad.	intermittent brook bisects this	
WETLAND PLANT COMMU	NITY DATA			
TREE LAYER Red maple Cellow birch	SAPLING LAYER Yellow birch Musclewood Black ash	SHRUB LAYER Winterberry (interspersed northern arrowwood & meadowsweet)	HERBACEOUS LAYER Royal fern Sensitive fern Cinnamon fern Tussock sedge Sphagnum moss Jewelweed	

The Rockingham County Survey indicates the soil within the wetlands to be a (395), a Chocorua mucky peat. While soil sampling/ugering, a 4" "O" layer was noted.

VETLAND HYDROLOGY DATA:

- Springtime flooding evident
- Pit & mound topography
- Windthrow

- Raccoon (tracks)
- White tailed deer (tracks)
- Gray treefrog (audio)
- Flock of rusty blackbirds (visual)





1. This is a view of Wetland #2 directed northwards. The two predominate layers in this wetland are mixed forest and scrub-shrub.



2. This photo shows a large 24" black gum located within the wetland. The large cavity (top center) is being utilized by a porcupine as a home. A large quality of scat was noted at the base of the tree.



3. A deer stand was also noted within this wetland. Its location here suggests back and forth movement through this wetland by white-tailed deer. The scrub-shrub component provides critical cover.



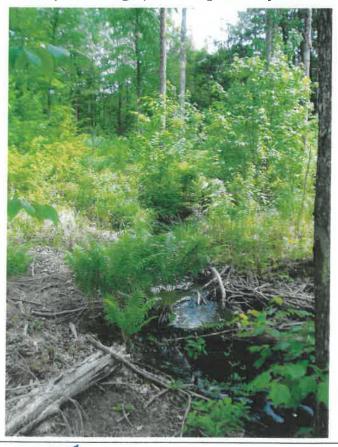
1. This is a view of Wetland #3 showing a very thick scrub-shrub understory.



2. These pink lady slippers (a plant species of concern) were observed along the outside edge of Wetland #3.



1. Wetland #4 was previously occupied by a colony of beaver. Its plant community is chiefly comprised of emergent marsh and scrub-shrub species. Interspersed within the wetland were many dead snags (trees that previously had been killed by the high water).



2. Detritus, wood that has fallen to the ground, provides an excellent substrate for insects and wildlife structure.



1. Wetland #5 consists of a wet meadow – emergent marsh – scrub-shrub plant community. Brown Brook, a perennial stream, flows in a southeasterly direction through the wetland.



2. It appears that earlier flood events have caused disturbance (sediment deposition) in a section of this wetland where an access road was overtopped with water.



1. Wetland #6 is an excavated pond with a thin fringe of emergent vegetation. This wetland is surrounded by farm fields.



2. On the day the wetland inventory was completed, a flock of Canada geese was observed utilizing the open water component. The nearby grassed fields provide important feed.



3. Some degradation is occurring to overall water quality at Wetland #6 by cows that are being allowed to drink directly from the pond. Best Management Practices for agriculture can provide good alternatives and, at the same time, provide better protection of the effected wetland.



1. This is a view of the center portion of Wetland #7. It occupies a drainageway with an intermittent stream.



2. The wetland plant community is chiefly comprised of emergent marsh and scrub-shrub. Detritus (lying wood debris) provides potential basking logs for both spotted and Blanding's turtles.



1. Wetland #8 flows into Wetland #7. North Road divides the two wetland systems. The wetland plant community is equally divided between emergent marsh and scrub-shrub species.



1. Wetland #9 contains a forested scrub-shrub plant community. The thick understory of shrubs provides excellent wildlife cover. A paved road, Brown Brook Circle, bisects this wetland.



1. Wetland #10 occupies a very long and narrow drainageway that includes Brown Brook, a perennial flowage. The wetland stretches from Wildwood Road on the west to Martin Road on the east.



 This is a view of a component of Wetland #10 situated just south of the new athletic field. Its fish and wildlife classification as emergent / scrub-shrub was representative of a large percentage of this wetland system.



1. This is a view of Wetland #11 looking northwards. Its classification is forest – scrub-shrub. The observed pit and mound topography contained numerous depressions that would hold surface water during the spring months and provide potential habitat for breeding and egg laying amphibians.



1. This is a view of Wetland #12 looking in a southeasterly direction. This is a forested scrub-shrub wetland which is hydrologically connected to Wetland #10.



2. This photo shows the winter yarding activity by a small group of white-tailed deer (5 individual beds). This photo helps to highlight the importance of very small wetland components in providing critical winter habitat.



1. Wetland #13 is a forested / scrub-shrub wetland. The wetland's topographical position and plant community description suggest that this wetland may be of exemplary status.



 This large diameter black gum was observed within this wetland. These mature trees increase the overall diversity of the wetland and adjacent landscape.



3. This photo shows a snapping turtle that was observed at the edge of Beede Hill Road adjacent to Wetland #13.



4. This photo shows a painted turtle that was crushed by a car between Beede Hill Road and Wetland #13. The sighting of two turtles just days apart indicates that Wetland #13 contains important habitat for turtles.



1. This photo is directed northwards from Shirken Road at Wetland #14. This wetland was previously occupied by a large beaver colony (five separate beaver lodges were counted). The once open water component has been since drained. Pre-existing beaver dams located on the northeast were observed to have been dismantled.



2. A total of 9 great blue heron nests were observed in the snag component within Wetland #14. This photo also shows two of the five beaver lodges that were situated in this prior beaver flowage.



3. The interspersed dead snag component provided critical nesting opportunities to the great blue heron. On 6/12/07, two fledgling birds were observed in one of the nests.



4. These large beaver flowages attract a multitude of large predators. Here, the bounding tracks and slide of a river otter were observed.



5. This photo shows the most southern scrub-shrub component of Wetland #14 (situated between Shirken Road and Beede Hill Road).



6. This photo shows a northern water snake that had been killed on the southern end of Wetland #14 at the edge of Beede Hill Road. It appears that there is quite a bit of movement by reptiles to and from Wetlands #13 & 14.



1. Wetland #15 is one of the larger wetland systems found in Fremont. This photo shows the open water component that is situated on the northeast section of this wetland.



2. Canada geese were observed (top, center) in the open water component. Canada geese prefer habitats that are surrounded by grasslands.



3. This photo shows Wetland #15 looking northwesterly from Tavern Road. Beaver actively occupy this section of the wetland.



4. This photo shows the hydrological connection (at Beede Hill Road) between Wetland #15 and Wetland #16. The existing box maintains a natural stream bottom.



1. This is a view of the scrub-shrub forested component situated northwest of Beede Hill Road in Wetland #16. A perennial stream flows in a southeasterly direction through this wetland.



2. This is a view of Wetland #16 from the stream crossing on Beede Hill Road (looking in a northwesterly direction). This photo shows the perennial stream channel.



3. Fish (fingerling stage) were observed in the perennial stream at the stream crossing on Beede Hill Road. Wetlands #16 & 15 are connected hydrologically by this stream.



4. This photo shows the ATV trail that bisects the northeast section of this wetland. West Environmental, Inc. is recommending that this ATV trail be removed to restore the wetland's original connection. This may fulfill a future mitigation requirement by a potential developer.



1. This is a view of Wetland #17 looking west from the beaver dam. This wetland has deep marsh in the eastern end and shallow marsh in the western end.



2. The edges of the beaver pond have shallow marsh and scrub-shrub habitat.



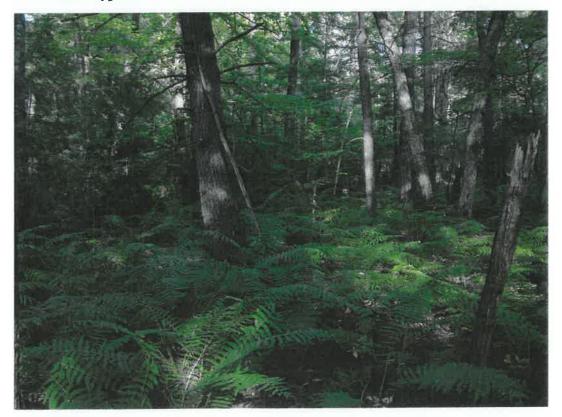
3. This is a view of the western end of the wetland which has deep and shallow marsh.



4. Deep marsh habitat is interspersed with shallow marsh habitat in this wetland.



1. This is a typical view of Wetland #18a, a pit and mound hemlock dominated swamp.



2. This is a view of Wetland #19, also dominated by a hemlock canopy with red maple mixed in.



1. This is a view of Loon Pond which is a surface water surrounded by wetland.



2. Loon Pond is a popular fishing spot for local anglers.



3. This is a view of the scrub-shrub portion of this wetland. Deep & shallow marsh habitats are interspersed with scrub-shrub vegetation.



4. There is a small access road to this pond off of Prescott Road.



1. This is a view of Wetland #21 from the ATV trail. It has a thick shrub and herb layer.



2. This is a view of the culvert connecting the wetland across the ATV trail.



1. This forested wetland has both a dense shrub and herb layer.



2. Sweet pepperbush is one of the dominant shrub species in Wetland #22.



1. This is a view of the northern boundary of Wetland #23, a red maple swamp with a carpet of sphagnum moss.



2. Tussock sedge was also present in the herb layer and portions of this wetland have a thick shrub layer.



1. Recent beaver activity has altered the hydrology of this red maple swamp.



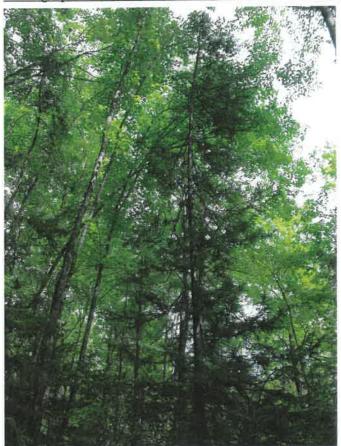
2. This is a view of lot development along the western end of this wetland off of Christopher Lane.



1. This is a view of the western end of Wetland #25 where vernal pool habitat is present.



2. The central portion of this wetland has white pine mixed with red maple in the canopy.



3. Red spruce was also observed in this wetland.



4. Black gum is present along the northern boundary of this wetland.



1. This is a view of Wetland #26 looking north into its center. Dead trees are interspersed with shallow marsh habitat.



2. This is a view of the western end of the wetland adjacent a beaver dam.



3. Painted turtles take advantage of the numerous logs in the deep marsh and open water areas.



4. Wetland #26 is drained by a perennial stream that flows south.



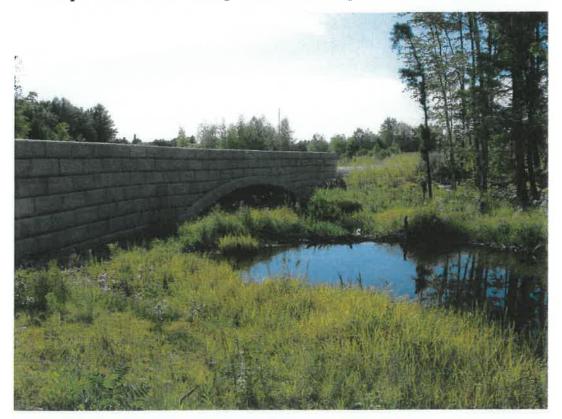
1. This is a view of the northern portion of Wetland #27 where it is a red maple swamp with a dense herb layer.



2. This is a view of a shallow marsh portion of Wetland #27.



3. This photo shows the beaver pond in the central portion of the wetland.



4. This is a view of the arch culvert crossing the wetland.



5. This photo was taken looking north into the deep marsh portion of Wetland #27.



6. This is a view of the southern most marsh with standing dead trees present.



1. This is a view of Wetland #28, a red maple / eastern hemlock swamp.



2. Portions of this wetland have less hemlock and more shrubs present.



1. This is a view of the wetland which has a dense marsh with standing tree snags.



2. This is a view of the pond in the western end of the wetland.



1. This is a view of the emergent portion of the wetland located at the eastern end.



2. This is a view of one of the open water / deep marsh areas.



3. Black ducks were seen feeding in one of the beaver ponds.



4. The stream system in bordered by forested wetlands between the beaver ponds.



1. This wetland system contains an active beaver colony. The backup of water via their dam structures has merged Wetlands #31 (on the north) with Wetland #32 (on the south).



2. Taken in the late afternoon, this photo shows the open water component at Wetland #31. An actual dam, lodge, and browse were all noted.



1. This is a view of this thick scrub-shrub wetland with numerous berry-producing shrub species.



2. This is a view of the small stream channel that drains this wetland under Beede Hill Road.



1. This is a view of the wetland at the northern end of Wetland #34.



2. The central portion of this wetland is a shallow marsh with standing dead trees.



1. This is a view of Wetland #35 looking north from the railroad bed at the large expanse of marsh habitat.



2. This photo was taken looking south into Wetland #35.



3. This is a view of the forested swamp fingers of Wetland #35 along the old railroad bed.



4. Wetland #35 is bordered by mature forest along its eastern boundary.



1. This is a view of Wetland #36 with a house that is located east of the wetland.



2. This is a view of the central portion of the wetland which includes open water, shallow marsh, and lots of dead wood.



1. This is a view of the northern portion of Wetland #37 which is flooded by a beaver dam.



2. This is a view of the shallow marsh portion of Wetland #37, west of the old railroad bed.



3. This is a view of the central portion of Wetland #37 from the railroad bed looking west.



4. This photo shows the railroad bridge over the Exeter River where the western and eastern portions of Wetland #37 connect.



5. This is a view of the deep and shallow marsh habitat in the eastern portion of the wetland.



6. This is a view of a river back water in the same area.



7. This is a view of the railroad bed which gets heavy ATV use.



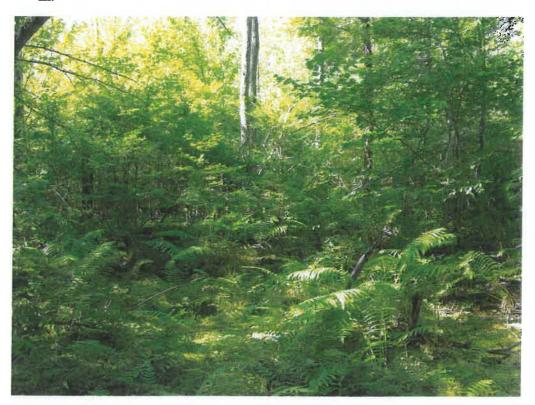
8. This photo shows an example of the buttonbush swamps associated with Wetland #37.



1. This is a view of Wetland #38, which is a shallow marsh downstream of Wetland #39.



1. This is a view of the northeast finger of Wetland #39, which is forested with hemlock mixing in.



2. The northern portion of this wetland is a red maple swamp with a thick shrub and sapling layer.



3. The southeastern portion of the wetland includes a beaver pond with deep and shallow marsh habitat.



4. There is a forested wetland associated with the stream that drains the beaver pond.



5. The eastern portion of Wetland #39 extends across Sandown Road. This is a buttonbush swamp with pockets of deep marsh habitat.



6. This is a view of the box culvert that connects the wetland.



1. This is a view of the central portion of Wetland #40 which has a very dense shrub layer.



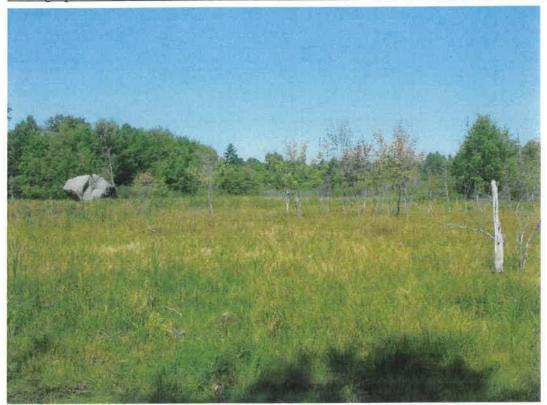
2. This is a photo of the fire pond east of Wetland #40.



1. This is a view of the eastern portion of Wetland #41, a broad shallow marsh area.



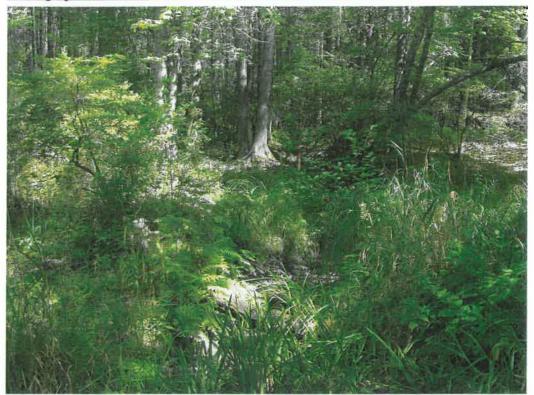
2. This photo was taken from one of the islands looking west across the wetland.



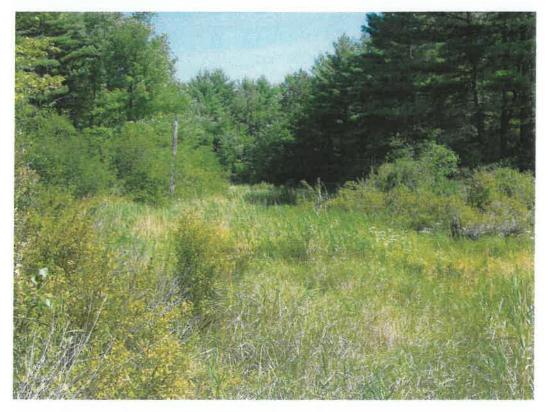
3. This is a view of the southern boundary of the wetland where cattle graze in the wetland.



4. This photo shows the southeastern corner of Wetland #41, which is forested.



5. This is a view of the southwest finger of Wetland #41, which is a forested swamp associated with an intermittent stream.



6. This is a view of the marsh habitat associated with the stream and the beaver dams.



1. The eastern end of Wetland #42 borders the old railroad bed and the Sandown town line where there is a wood bridge crossing.



2. This portion of the wetland is dominated by shrubs with pockets of forested wetland.



3. This photo is looking north from the wood bridge (downstream) at the Exeter River.



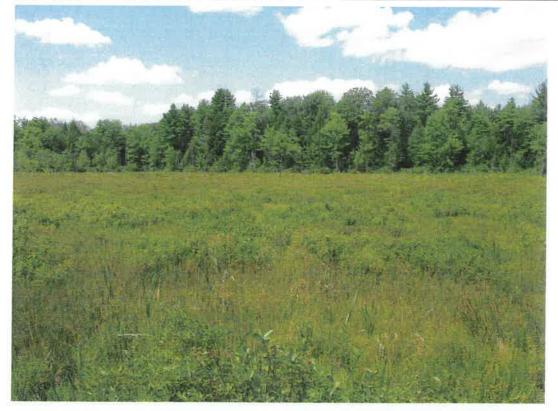
4. This is a view of the forested portion of the wetland which is the dominant cover type of this wetland.



5. This is a view of the wetland where the river crosses under Sandown Road.



6. This is a view of the northern portion of the wetland which is forested with a thick herb layer of grasses and sedges.



1. This is a view of the portion of Wetland #43 north of the old railroad bed.



2. This is a photo of the old railroad bed which is used by ATVs.



3. This is a photo of the wetland south of the railroad bed which includes a leather-leaf swamp with shallow marsh edges.



4. This is a view of the shallow marsh edges which have pockets of deep marsh habitats.



5. The eastern end of this wetland has a series of beaver ponds with deep marsh areas.



6. There are open water areas in this portion of the wetland.



1. This photo shows a component of Wetland #44 situated just west of Taylor Road (taken from the stream crossing). At this time, its associated perennial stream was nearly dry.



2. This photo shows a solitary sand piper (center of photo) busily feeding at the edge of the water.



3. An elevated culvert was noted at the stream crossing beneath Taylor Road. Its elevation probably severely restrains passage of fish into the upper reaches of this perennial drainage.



1. The main component of Wetland #45 is scrub-shrub / emergent. This wetland is situated adjacent to a prior oxbow of the Exeter River and appears to function as a spillover area during cyclical river flooding.



2. An intermittent stream exits this wetland flowing in a southeasterly direction towards the Exeter River.



3. Sets of tracks (bird and mammal) were observed on the soft mud substrate within the dried up stream channel.



4. A snail, a kind of mollusk, was also observed. Snails scrape algae off rocks, logs, and plant stems with their rasp-like "radulae" containing thousands of teeth.



1. Wetland #46 is a forested – scrub-shrub wetland. Red Brook Road divides this moderate-sized wetland in two. This photo shows the section of wetland situated south of the Red Brook Road. Here, dense herbaceous and shrub layers are evident.



2. This photo was taken within the northern section of this wetland. White-tailed deer sign was noted in both sections of wetland.



1. Wetland #47 is actively occupied by beaver. The plant community consists of a thick scrubshrub layer with a hardwood tree overstory.



2. A wildlife corridor was noted (center, top to bottom) on the western perimeter of Wetland #47.



3. Both deer scat and other mammal scat (see photo) was observed on this heavily used trail.



4. Mayflower, a plant species of concern, was observed on the outer edge of this wetland. Plants that are of special concern, or threatened/endangered, are often found within the limits of a wetland.



1. Wetland #48 is both emergent and scrub-shrub. An intermittent stream bisects the wetland flowing in a northeasterly direction. This wetland's position adjacent a reclaimed gravel pit increases its overall habitat value for turtles.



2. A significant snag component was evident within Wetland #48. Snags provide homes for foraging insects and cavities to a number of songbird species.



3. This photo shows an excavated pond that is situated immediately adjacent to Wetland #48. It was determined by West Environmental, Inc. that there is no hydrological connection with the pond. The presence of nearby pond, however, increases the general diversity (mixture of wetland classifications) of Wetland #48.



1. This is a view of Wetland #49 from Old Danville Road looking in a southeasterly direction. The wetland is characterized as scrub-shrub / emergent. This wetland component is directly connected with the Exeter River via an associated perennial stream.



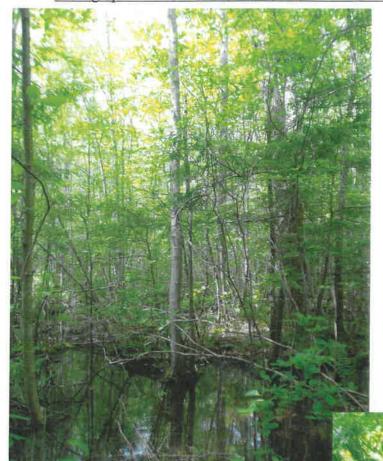
2. Painted turtles were observed (bottom right) basking in the sun in this wetland.



3. The thick scrub-shrub layer at Wetland #49 provides excellent habitat for both spotted and Blanding's turtles. The addition of a perennial stream and linkage with the Exeter River augments its overall habitat value.



4. This photo shows a section of the Exeter River northwest of Wetland #49.



1. Wetland #50 is characterized as forested scrub-shrub. Its plant community description and location in a very poorly drained depression closely resembles an exemplary plant community referred to as a "Nutrient-Poor Basin Swamp". This wetland's small size probably limits its full status.

2. This photo shows a 22-24" diameter black gum observed within Wetland #50. These old-age trees help to increase overall biological diversity of a wetland and surrounding landscape.





3. A well used wildlife corridor was noted between Wetland #50 and Karlin Road. Deer scat and river otter scat were both documented.



1. Wetland #52 is an old beaver pond that has recently been drained and has dead trees and shallow marsh habitat.



1. This photo shows Wetland #53 looking in a northeasterly direction. This wetland occupies a depression in a large open field area. It is characterized as a wet meadow comprised chiefly of wetland and upland grasses.



2. This photo shows Wetland #53 from Martin Road looking in a southwesterly direction. Due to the presence of poorly drained soils, haying is delayed in this wetland, allowing for ground nesting by a specific group of songbirds requiring open habitat. This fulfills a critical habitat need for these birds.



3. This photo shows a close-up of the herbaceous layer and the hydrology within Wetland #53 in June of 2007.



1. Wetland #54 is a forested wetland. This photo shows the pit and mound topography, the coniferous understory, and hydrological regime.



1. This is a view of the northern portion of Wetland #55 along Route 107. Beaver activity has recently flooded this portion of the wetland.



2. This is a view of a tributary stream to Wetland #55 that has recently been excavated/restored adjacent to Route 107.



3. This is a view of an old oxbow associated with the Exeter River and Wetland #55.



4. This photo shows the river and forested floodplain in the central portion of the wetland.



1. Wetland #56 is a forested wetland chiefly comprised of red maple with a thick winterberry scrub-shrub understory. An intermittent stream flows in an easterly direction through the wetland.



2. Black ash, an unusual tree species, was found within Wetland #56.

Appendix A

Wetland Function / Value Assessment Data Forms

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form Wetland ID: #2 Size: 13 3 AC Date: WEI Project # 06-076NH Classification: PFO1/4/551E Aerial Photograph #: 24933-4-27 24933-4-28 **Wetland Functions** Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present y(n)Groundwater relationship present Subsoil type: Micky Variable water levels observed Other geologic features: thicker o Springs or seeps observed Izyer Function Present (y)n Contains only inlet or outlet Floodflow Alteration Watershed Information **Topographic Information** Land cover in catchment area? forest Moderate to Topography of watershed: relatively flat Watershed position Topography of wetland: Other catchment storage Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y(n) Erosion/sedimentation observed Diffuse flow/slow moving water Vegetation Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** Yes No **Nutrient Removal/Retention Transformation** Hydrology **Transformers** Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present Production Export** Vegetation **Export** Density Detritus Interspersion Aquatic plants Diversity Berry producing shrubs Food source Nectar sources **Function Present** Seed/mast sources No Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop), Perennial or intermittent Characteristics of Stream Description of Bank

Bank present

Bank eroded

Steep bank Stabilized Bank

Bank vegetated

No

Elevation change present (y) n

High seasonal flows

Channelized flow

Open water fetch

Function Present

Wetland ID: 共 2			
Wildlife Habitat Existing Critical Habit	at yn Ty	pe: Deep marsh	Principal Function
Critical Habitat Featur	res y n	Specific Features: open	water of associated and mersy
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover	y n y n y n y n y n	Connectivity Wildlife Corridor (through or adjace) Wetland connectivity Upland connectivity Strengths of Upland Habitat:	0 /
Function Present	⊘ n	olev 135162 com	Yes No
Vegetated Buffer Type: Forest Jurban Buffer stream or wetland Does buffer provide shad Does buffer adequately safeguard wetland	l (<u>y</u>)n	Habitat Degradation Percentage of wetland buffer with Activities that adversely affect we Existing structure(s) that obstruction animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:	vildlife function:
Wetland Values			
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails -		Restoration Stabilization Pote y n Restoration area size: H2O Degradation Present	yn)
Value Educational/Scientific V Unique habitats/plant spondiverse wildlife habitat Parking/access Value		Invasive Species Present: Type:	y n
Uniqueness/Heritage Urban upland/proximity Rapid development upla: Critical habitat/threatene endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value		<u>Comments/Notes</u>	

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form Date: 6/9/07 Wetland ID: 井3 Size: 4 4 WEI Project # 06-076NH Classification: PFOLE SSIE Aerial Photograph #: 2+933-3-29 Wetland Functions Groundwater Recharge/Discharge Principal Function Geology Hydrology Restrictive layer present y(n) Groundwater relationship present Subsoil type: PCZT Variable water levels observed Other geologic features: Hick o Springs or seeps observed Function Present (y)n Contains only inlet or outlet Floodflow Alteration Watershed Information **Topographic Information** Land cover in catchment area? foresturb zn Topography of watershed: relatively Watershed position Topography of wetland: Other catchment storage Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection No Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y(n) Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** No Nutrient Removal/Retention Transformation Hydrology **Transformers** Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present** No Production Export Vegetation **Export** Density Detritus Interspersion Aquatic plants Diversity Berry producing shrubs Food source Nectar sources **Function Present** Seed/mast sources No Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop), Perennial or intermittent Characteristics of Stream Description of Bank

Characteristics of Stream Flevation change present

Function Present

Elevation change present (y) n
High seasonal flows
Channelized flow
Open water fetch

Vn

y
n

n Bank present
n Bank vegetated
n Bank eroded
Steep bank
Stabilized Bank

No

Wetland ID: 斯多		
Wildlife Habitat Existing Critical Habitat yn Typ	pe: Potential Vernal Pool	Principal Function
Critical Habitat Features y n	Specific Features: SCrub - Shru	o wettend component
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Function Present n	Connectivity Wildlife Corridor (through or adjacen of note that the world of the corridor) Wetland connectivity Upland connectivity Strengths of Upland Habitat: Potential Vernal pool	
Vegetated Buffer Type: forest/urban Width: 500' Buffer stream or wetland yn Does buffer provide shade yn Does buffer adequately safeguard wetland yn nearly drineway	Habitat Degradation Percentage of wetland buffer with encrease Activities that adversely affect wildlife Existing structure(s) that obstruct animal movement Significant disturbance y notter habitat y notter hab	function: =dj=cent druewzy Juj (2) residences
Wetland Values		
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Win yin yin yin yin	Restoration Stabilization Potential V.D. Restoration area size: H2O Degradation Present	
Value H M(L) .	
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value Educational/Scientific Value On On HM	Invasive Species Present: y Type:	
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or	Comments/Notes	
endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Archaeological sites yn yn yn HMM	wire fence	

Town of Fremont Inventory Functional/Value Assessment Data Form Wetland ID: # 4 Size: 4.7 Ac. Date: 6 9 67 WEI Project # 06-076NH Classification: PEMIE SSIE FOSE Aerial Photograph #: 24933 - 3-29 Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present Subsoil type: 9 - 2 - 5 - 6 - 10 - 2 - Variable water Other geologic features: + 10 - 0 - Springs or seeps observed Contains only inlet or outlet Restrictive layer present y (n) Groundwater relationship present Variable water levels observed Yes Floodflow Alteration Watershed Information **Topographic Information** Edjecent slopes Land cover in catchment area? Topography of watershed: Watershed position Topography of wetland: Other catchment storage y(n) Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection Sediment/Toxicant/Pathogen Retention Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y(n) Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** Yes **Nutrient Removal/Retention Transformation** Hydrology Transformers Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present Production Export** Vegetation **Export** H(M)L Density Detritus H (M)L Interspersion Aquatic plants H(M)LDiversity Berry producing shrubs Food source Nectar sources **Function Present** Seed/mast sources No Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop), Perennial or intermittent Characteristics of Stream Description of Bank Elevation change present Bank present High seasonal flows Bank vegetated Channelized flow Bank eroded Open water fetch Steep bank Stabilized Bank Function Present

West Environmental, Inc.

Wetland ID: # A	
Wildlife Habitat Existing Critical Habitat yn Typ	pe: emergent mensh Principal Function ecrol/shrub compenent
Critical Habitat Features yn	Specific Features: (Szme)
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Cover	Connectivity Wildlife Corridor (through or adjacent) y n Wetland connectivity Upland connectivity Strengths of Upland Habitat: Adject for the content of t
Function Present (y)	(Yes) No
Vegetated Buffer Type: forcel width: 500 Buffer stream or wetland yn Does buffer provide shade yn Does buffer adequately safeguard wetland yn	Habitat Degradation Percentage of wetland buffer with encroachment: 15% Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:
Wetland Values	
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Yn n	Restoration Stabilization Potential y(n) Restoration area size: H2O Degradation Present y(n)
Value H M(1	
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value Yn HMI	Invasive Species Present: y n Type:
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Yn yn	<u>Comments/Notes</u>
Historic sites Ecological health/vigor Value Y n H I	

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form Wetland ID: 井 5 Date: 8 0 7 Size: 18.2 WEI Project # 06-076NH Classification: PEWI/SSIE Aerial Photograph #: 24933 - 4- 32 Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present yn Groundwater relationship present Subsoil type: Szndy lozm Variable water levels observed Other geologic features: Springs or seeps observed Function Present (y) n Contains only inlet or outlet No Floodflow Alteration Watershed Information **Topographic Information** Land cover in catchment area? _ f. ei d. Topography of watershed: Watershed position H(M)LTopography of wetland: Other catchment storage on near by Constricted outlet Watercourse associated (High degree of impervious Contains hydric A soils (surfaces in wetland watershed **Function Present** Provides downstream protection No Sediment/Toxicant/Pathogen Retention Setting & Hydrology Organic Soils Educati fertilized fields Upstream sources of pollution Broad boundary transition(y)n Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Occasionslid Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** No Nutrient Removal/Retention Transformation Hydrology **Transformers** Open water present Organic soils Slow moving water Aquatic vegetation Abundant vegetation Nutrients upslope **Function Present Production Export** Vegetation Export Density Detritus Interspersion Aquatic plants Diversity Berry producing shrubs Food source Nectar sources **Function Present** Seed/mast sources Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop) Perennial or intermittent **Characteristics of Stream** Description of Bank Elevation change present y n Bank present High seasonal flows Bank vegetated Channelized flow Bank eroded Open water fetch Steep bank Stabilized Bank

No

Function Present

Value

Town of Fremont Inventory Functional/Value Assessment Data Form Date: 8 01 Wetland ID: Size: 6.1 WEI Project # 06-076NH Aerial Photograph #: 24933-3-32 Classification: PUBHe Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present y(n) Groundwater relationship present Subsoil type: 51/4 loe-Variable water levels observed Other geologic features: Springs or seeps observed Function Present (y)n Contains only inlet or outlet Yes No Floodflow Alteration Watershed Information **Topographic Information** Land cover in catchment area? Field Topography of watershed: Watershed position Topography of wetland: Other catchment storage (V)n Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection No Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology adjacent fields may receive femilizer epplications Organic Soils Upstream sources of pollution Broad boundary transition y(n) Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** Yes Nutrient Removal/Retention Transformation Hydrology **Transformers** Open water present Organic soils Organic soils Aquatic vegetation Abundant vegetation yn yn Slow moving water Nutrients upslope **Function Present** Yes **Production Export** Vegetation **Export** Density HM(I)Detritus Interspersion Aquatic plants Diversity Berry producing shrubs Food source Nectar sources **Function Present** Seed/mast sources Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop), Perennial or intermittent **Characteristics of Stream** Description of Bank Elevation change present (y)n (slight) Bank present High seasonal flows Bank vegetated Channelized flow Bank eroded cows are utilizing pand for drinks Open water fetch Steep bank crising some erosion Stabilized Bank

Yes

No

West Environmental, Inc.

Function Present

y n

Wetland ID: 🕸 6	
Wildlife Habitat Existing Critical Habitat y Typ	e: Principal Function
Critical Habitat Features y n	Specific Features:
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Function Present	Connectivity Wildlife Corridor (through or adjacent) y n Wetland connectivity Upland connectivity Strengths of Upland Habitat: The edge over field 5 Yes No
Function Present (y)n	Yes(No)
Vegetated Buffer Type: Field Width: 500 Buffer stream or wetland yn Does buffer provide shade yn Does buffer adequately safeguard wetland yn	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:
Wetland Values	
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Yn yn n	Restoration Stabilization Potential (y) Restoration area size: 6+ - passibly fill-in man-made exception, create wetland will H20 Degradation regardation Present (y) (potentially by cass fertilizer applications and
Value H M/I	cos fertilizer zpolications, and
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value Educational/Scientific Value yn yn H M(I	Invasive Species Present: yn runs Type: Berberry (spr.) noted
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage yn yn yn yn H M(I	Comments/Notes ?) potentially in rearray uplands; over water component way be utilized occasional turtle

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form 6/12/07 Wetland ID: #7 Size: 7.6 Date: WEI Project # 06-076NH Classification: PENI/SSIE Aerial Photograph #: 24933-3-31 Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present y (n) Groundwater relationship present Subsoil type: gray sand Variable water levels observed Other geologic features: Springs or seeps observed Function Present yn Contains only inlet or outlet No Floodflow Alteration Watershed Information Field - Topographic Information Land cover in catchment area? forest Topography of watershed: Watershed position M)L Topography of wetland: Other catchment storage Constricted outlet Watercourse associated (High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y)n Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** No **Nutrient Removal/Retention Transformation** Hydrology (Smz11 **Transformers** open Open water present Organic soils water compress! Aquatic vegetation Slow moving water Nutrients upslope Abundant vegetation north) **Function Present** No **Production Export** Vegetation **Export** Density Detritus Interspersion Aquatic plants Diversity Berry producing shrubs Food source Nectar sources **Function Present** Seed/mast sources Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop), Perennial or intermittent) Characteristics of Stream Description of Bank (within with med Elevation change present Bank present High seasonal flows Bank vegetated Channelized flow Bank eroded

Steep bank Stabilized Bank

No

Open water fetch

Function Present

Wetland ID: #7		
Wildlife Habitat Existing Critical Habitat yn	Type: Scrub-shrub; Principal Function Sedge medow	
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Function Present Vegetated Buffer Type: Force field Widt Buffer stream or wetland yn Does buffer provide shade yn Does buffer adequately safeguard wetland	Specific Features: Tussech sedop that is Preferred by spotted title Connectivity Wildlife Corridor (through or adjacent) y n? (most likely) Wetland connectivity Upland connectivity Upland connectivity Strengths of Upland Habitat: Nearby upland field Yes No Habitat Degradation Percentage of wetland buffer with encroachment: 50% Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:	
Wetland Values		
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value	Restoration Stabilization Potential y n Restoration area size: y n H2O Degradation Present HM L	
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	H(M) L Invasive Species Present: yn Selt contemnet Solt North H) M L	2 4
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present	Comments/Notes yn potentially (see about) yn yn	

29/2cont

Historic sites

Value

Ecological health/vigor

en esendoned

Ksorlist

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form 6/12/07 Wetland ID: #8 Size: 13.7 Date: WEI Project # 06-076NH Classification: PSSI/EMIE Aerial Photograph #: 24933 - 3 - 31 24933-3-30 Wetland Functions Groundwater Recharge/Discharge **Principal Function** Hydrology Geology Restrictive layer present y(n)Groundwater relationship present Subsoil type: grzy sznd Variable water levels observed Other geologic features: Springs or seeps observed Function Present (y) Contains only inlet or outlet No Floodflow Alteration Watershed Information **Topographic Information** Land cover in catchment area? forest Topography of watershed: H M L Watershed position Topography of wetland: Other catchment storage (y)n Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection No Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Upstream sources of pollution \bigcirc n y(n) Broad boundary transition y Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water (y)n Уn Herbaceous vegetation Does wetland flood Dense vegetation Long water retention y)n **Function Present** No **Nutrient Removal/Retention Transformation** Hydrology **Transformers** Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present Production Export** Vegetation **Export** Density Detritus Interspersion Aquatic plants Diversity Berry producing shrubs Food source Nectar sources **Function Present** Seed/mast sources No Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop), Perennial or intermittent Characteristics of Stream **Description of Bank** yn (within wetlend) Elevation change present y Bank present

Bank vegetated

Yes

No

Bank eroded

Steep bank Stabilized Bank

High seasonal flows

Channelized flow

Open water fetch

Function Present

Existing Critical Habitat y)n	Type: Scrb-érrie Seèze merdoù	Principal Function
Critical Habitat Features y n	Specific Features: Evident	e tustock sedge that
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Vin	Connectivity Wildlife Corridor (through or adjace Wetland connectivity	The state of the s
Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Yn yn yn yn yn yn yn	Upland connectivity Strengths of Upland Habitat:	(y)m
Cover	potential adject	Crownia y
Function Present yn	mast trees	Yes No
Vegetated Buffer Type: forest Widt Buffer stream or wetland yn Does buffer provide shade yn Does buffer adequately safeguard wetland yn	Habitat Degradation Percentage of wetland buffer we Activities that adversely affect of Existing structure(s) that obstrution animal movement Significant disturbance Proximity to beaver, mink, or otter habitat (president) Other:	wildlife function:
Wetland Values		
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails	Restoration Stabilization Pote y n y in Restoration area size: y n y n H2O Degradation Present	ential y n
Value	H(M)L	
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	Invasive Species Present: (y) n (y) n (y) n HML	(y)n
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites	Comments/Notes yn yn yn yn	
Stonewalls present Historic sites Ecological health/vigor	yn On On	

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form Wetland ID: 世 9 Size: 22, 2 Date: 8 31 07 WEI Project # 06-076NH Classification: PFOIE | SSIE Aerial Photograph #: 24953 - 3-32 Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present y(n)Groundwater relationship present Subsoil type: grey Sandy loza Variable water levels observed Other geologic features: Springs or seeps observed Function Present y (n Contains only inlet or outlet Floodflow Alteration Watershed Information **Topographic Information** Land cover in catchment area? Fores to (seme) the Topography of watershed: Watershed position (H)M L Topography of wetland: no outlet/self-conteine Other catchment storage Constricted outlet Watercourse associated High degree of impervious VM (nearby Brown Brook Circle Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y n Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** No Yes **Nutrient Removal/Retention Transformation** Hydrology **Transformers** Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present Production Export** Vegetation Export Density Detritus Interspersion Aquatic plants H (M) L Diversity Berry producing shrubs Food source Nectar sources **Function Present** Seed/mast sources Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop), Perennial or intermittent Characteristics of Stream **Description of Bank** Elevation change present y n Bank present y n High seasonal flows Bank vegetated y n Channelized flow y n Bank eroded y n Open water fetch y n Steep bank y n

Stabilized Bank

Function Present

y n

Existing Critical Habitat y	Type:	Principal Function
Critical Habitat Features y	Specific Features:	
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Piversity Features y trees	Connectivity Wildlife Corridor (through Wetland connectivity Upland connectivity Strengths of Upland Ha	or adjacent) y n y n y n y n On bitat: Scrub (shrub roughes good cover
Function Present Or	, ,	Yes (No)
Vegetated Buffer Type: (arcst) ars = Wi Buffer stream or wetland (y) r Does buffer provide shade (y) r Does buffer adequately safeguard wetland (y) r	Existing structure(s) that animal movement	affect wildlife function: obstruct n rearby Brown Br n Circle & Edge C
Wetland Values Recreational Value	Restoration Stabilizatio	n Potential
Parking available Watercraft access Fishing available Hunting permitted	y n y n Restoration area y n (y) n H2O Degradation	size:
Walking/biking trails	y n Present	y(n)
Value	H M L	
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	yn yn Type: H M L	nt: y n
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor	Comments/Notes y n y n y n y n y n y n y n y	

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form Wetland ID: 井10 Size: 35.9 Date: 8 67 WEI Project # 06-076NH Classification: PEM 165.5 Aerial Photograph #: 24933 - 3 - 32 24033-2-Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present y 'n-) Groundwater relationship present Subsoil type: pezt Variable water levels observed Other geologic features: thick Springs or seeps observed Function Present (y)n Contains only inlet or outlet Floodflow Alteration Watershed Information Topographic Information forest Land cover in catchment area? Topography of watershed: Watershed position Topography of wetland: Other catchment storage Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection Sediment/Toxicant/Pathogen Retention Setting & Hydrology Soils Organic Soils Upstream sources of pollution Broad boundary transition y(Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** Yes No **Nutrient Removal/Retention Transformation Transformers** Hydrology Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present** No **Production Export** Vegetation **Export** Density H (M)L Detritus Interspersion H M L Aquatic plants Diversity Berry producing shrubs Food source Nectar sources **Function Present** Seed/mast sources No

Sediment/Shoreline Stabilization

Is wetland associated with surface water? (if no, stop), Perennial or intermittent

Characteristics of Stream Elevation change present y High seasonal flows Channelized flow Open water fetch

Function Present

Description of Bank Bank present Bank vegetated Bank eroded Steep bank Stabilized Bank



No

Wetland ID: # 10	
	Potan a relational principal Function
	Specific Features: Scrubishrub compara-
Aquatic insect habitat (y)n Amphibian habitat (y)n Fisheries habitat y n Cavity trees (y)n	Connectivity Wildlife Corridor (through or adjacenty) n Wetland connectivity Upland connectivity Strengths of Upland Habitat: Cover, white precised source (You bloom
	Yes) No
Type: Town width: 500 ft Buffer stream or wetland yn Does buffer provide shade yn Does buffer adequately safeguard wetland yn (noder rich)	Habitat Degradation Percentage of wetland buffer with encroachment: 50% Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:
Wetland Values	
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value Recreational Value yn n Hunting permitted Value Hunting permitted Walking/biking trails Yn Hunting permitted Walking/biking trails	Restoration Stabilization Potential y n Restoration area size: H2O Degradation Present y n (potential continuation from warrier vesidential continuation from warrier vesidential continuation
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value In n y n HM L	Invasive Species Present: yn Type:
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage yn yn yn Historic sites Historic sites Ecological health/vigor Value Uniqueness/Heritage yn yn Historic sites Historic sites	Comments/Notes potential high related Lungla health

West Environmental, Inc.

Town of Fremont Inventory Functional/Value Assessment Data Form

Wetland ID: Classification: PFO 1 5	Size: 9.1 AC	Date: 431 c7 Aerial Photograph #: 24935	WEI I	Project # 06 - 33	6-076NH
Wetland Function					
Groundwater Recharge	/Discharge	**		Principal	Function
Geology	\sim	Hydrology			
Restrictive layer present	y(n)	Groundwater relationship present	(y) n		
Subsoil type: Mucky	Pezi	Variable water levels observed	(y)n		
Other geologic features:	thick o	Springs or seeps observed	y(n)		
Function Present y n		Contains only inlet or outlet	y)n	Yes	(N_0)
Floodflow Alteration		T			
Watershed Information	· · · · · · · · · · · · · · · · · · ·	Topographic Information	1 6	1 01-1	
Land cover in catchment	/ \	Topography of watershed:	LIZTIK (SZN	=11 +15	€.
Watershed position	(H)M L		-	~c)	
Other catchment storage	(y)n	Constricted outlet	y(n))	
Watercourse associated	(y)n	High degree of impervious			
Contains hydric A soils	(y) n	surfaces in wetland watershed	(y) n		
Function Present	(y)n	Provides downstream protection	Уn	(Yes)	No
Sediment/Toxicant/Path	ogen Retention				
Soils		Setting & Hydrology	-		
Organic Soils	(y)n	Upstream sources of pollution	y n		
Broad boundary transition	n(y)n	Erosion/sedimentation observed	yŒ)	
Vegetation	_	Diffuse flow/slow moving water	y n		
Herbaceous vegetation	y n	Does wetland flood	(y)n		
Dense vegetation	√n	Long water retention	(y)n		
Function Present	y n			(Yes)	No
Nutrient Removal/Reter	ntion Transforma	tion			
Hydrology		Transformers	_		
Open water present	∑ n	Organic soils	(y) n		
Slow moving water	(y)n	Aquatic vegetation	(y)n		
Nutrients upslope	(y)n	Abundant vegetation	y) n		
Function Present	y n			Yes	No
Production Export					
Vegetation		Export	_		
Density	(H)M L	Detritus	(y)n		
Interspersion	H(M)L	Aquatic plants	(V)n		
Diversity	H(M)L	Berry producing shrubs	(V)n		
Food source	$(\hat{y})n$	Nectar sources	V) n		
Function Present	Ö n	Seed/mast sources	yn	Yes)	No
Sediment/Shoreline Stal	bilization				
Is wetland associated with surface water? (if no, stop), Perennial or intermittent					
Characteristics of Strea	,	Description of Bank	•		
Elevation change present	_	Bank present	Vn		
High seasonal flows	(v)n	Bank vegetated	X n		
Channelized flow	Όνn	Bank eroded	VID)	
Open water fetch	VA	Steep bank	van	Ś	
1		Stabilized Bank	(V)n	•	
Function Present	(y)n		المعرب	Yes	No

Value

West Environmental, Inc.

Town of Fremont Inventory Functional/Value Assessment Data Form

Wetland ID: #12 Size: 6 Classification: PFOI/SSIE	Date: 2:24457 Aerial Photograph #: 24933	WEI Project # 06-076NH
Wetland Functions		
Groundwater Recharge/Discharge		Principal Function
Geology	Hydrology	-
Restrictive layer present y(n)	Groundwater relationship present	(V)n
Subsoil type: brown sand	Variable water levels observed	(V)n
Other geologic features:	Springs or seeps observed	y n
Function Present (y)n	Contains only inlet or outlet	yn Yes No
Floodflow Alteration		
Watershed Information residential	Topographic Information	_
Land cover in catchment area? for est	Topography of watershed:	eletize of Let (Seme)
Watershed position (H)M L	Topography of wetland:	(seme)
Other catchment storage yn	Constricted outlet	y n
Watercourse associated (x)n	High degree of impervious	
Contains hydric A soils (y)n	surfaces in wetland watershed	\bigcirc n
Function Present yn	Provides downstream protection	(y)n (Yes) No
Sediment/Toxicant/Pathogen Retention		
Soils	Setting & Hydrology	
Organic Soils (y)n	Upstream sources of pollution	(V)n
Broad boundary transition y(n)	Erosion/sedimentation observed	V
Vegetation	Diffuse flow/slow moving water	N _D
Herbaceous vegetation (y)n	Does wetland flood	
Dense vegetation	Long water retention	
Function Present	Bong Water Televition	Yes No
Nutrient Removal/Retention Transforma	tion	Marging 2 Jan
Hydrology	Transformers	
Open water present y (n)	Organic soils	(V)n
Slow moving water (y) n	Aquatic vegetation	VM
Nutrients upslope (y)n	Abundant vegetation	(V)n
Function Present v n	2	(Yes) No
		· · · · · · · · · · · · · · · · · · ·
Production Export	.	
Vegetation	Export	
Density H (M) L Interspersion H (M) L	Detritus	<u>y</u> n
	Aquatic plants	y/n)
Diversity $H(M)$ L Food source V V V	Berry producing shrubs	(y _i n
Function Present	Nectar sources	(y)n
runction Present (5)n	Seed/mast sources	yn (Yes) No
Sediment/Shoreline Stabilization		
	(if no, stop), Perennial or intermitte	ent
Characteristics of Stream	Description of Bank	
Elevation change present y(n)	Bank present	Dn within wellend
High seasonal flows (y)n	Bank vegetated	(<u>y</u>)n
Channelized flow (y)	Bank eroded	y(n)
Open water fetch y(n)	Steep bank	yn).
	Stabilized Bank	$(y)^{\overline{n}}$
Function Present y in		Yes) No

Helps to demonstrate that ever small wetlands may provide critical" habitat to certain

Urban upland/proximity

endangered species Archaeological sites Stonewalls present Historic sites

Ecological health/vigor

Value

Rapid development upland Critical habitat/threatened or

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form Wetland ID: #13 Date: Size: WEI Project # 06-076NH Classification: PFOI/SSIE Aerial Photograph #: 24933-1-33 Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present y n Groundwater relationship present/ Subsoil type: mucky pest Variable water levels observed Other geologic features: Springs or seeps observed Function Present (y)n Contains only inlet or outlet No Floodflow Alteration Watershed Information residential/ **Topographic Information** Land cover in catchment area? forest Topography of watershed: Watershed position (H)MLTopography of wetland: Other catchment storage (y)n Constricted outlet Watercourse associated (y)n High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y(n Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** No Nutrient Removal/Retention Transformation Hydrology **Transformers** Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present** Yes **Production Export** Vegetation **Export** Density Detritus Interspersion Aquatic plants Diversity Berry producing shrubs Food source Nectar sources Function Present Seed/mast sources No **Sediment/Shoreline Stabilization** Is wetland associated with surface water? (if no, stop), Perennial or intermittent **Characteristics of Stream** Description of Bank (while wellend) Elevation change present y(n)Bank present

Bank vegetated

No

Bank eroded

Steep bank Stabilized Bank

High seasonal flows

Channelized flow

Open water fetch

Function Present

Historic sites

Value

Ecological health/vigor

Town of Fremont Inventory Functional/Value Assessment Data Form Date: 2 21 0 4 WEI Pr Aerial Photograph #: 24933-1-33 Wetland ID: #14 Size: 54.9 WEI Project # 06-076NH Classification: PENIEL Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present y(n) Groundwater relationship present Subsoil type: pez-Variable water levels observed Other geologic features: thick o Springs or seeps observed Function Present (y)n Contains only inlet or outlet Floodflow Alteration Watershed Information **Topographic Information** Land cover in catchment area? Fores : Topography of watershed: Watershed position (H)M L Topography of wetland: Other catchment storage (y)n Constricted outlet Watercourse associated (High degree of impervious Contains hydric A soils (surfaces in wetland watershed **Function Present** Provides downstream protection Yes No Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y n Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** Yes No **Nutrient Removal/Retention Transformation** Hydrology **Transformers** Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present** No **Production Export** Vegetation **Export** Density H(M) L Detritus Interspersion Aquatic plants Diversity Berry producing shrubs Food source (fregs) Function Present Nectar sources Seed/mast sources Yes No Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop), Perennial or intermittent Characteristics of Stream Description of Bank new stream Channel being formed Elevation change present y(n) Bank present High seasonal flows Bank vegetated Channelized flow Bank eroded Open water fetch Steep bank Stabilized Bank

No

Yes

West Environmental, Inc.

Function Present

Existing Critical Habit	tat ý n	Type: Great blue heron reokery	Principal Function	
Critical Habitat Featu	resy n	Specific Features: de 2 de 2 de Connectivity	51295	
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover		Connectivity Wildlife Corridor (through or at Wetland connectivity Upland connectivity Strengths of Upland Habita	jacent) v n y n y n	
Function Present	y n		Yes)No	
Vegetated Buffer Type: Buffer stream or wetlan Does buffer provide sha Does buffer adequately safeguard wetland	d y n ade y n	Habitat Degradation Percentage of wetland buffer Activities that adversely affect Existing structure(s) that obstanimal movement Significant disturbance Proximity to beaver, mink, of other:	et wildlife function: Truct In reerby Beede 1 Shirke	All Rd 4
Wetland Values				
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails	(Y) y (i y (i y (i	Restoration Stabilization P Restoration area size Restoration area size H2O Degradation Present		
Value	. Н (ML		
Educational/Scientific Unique habitats/plant s Diverse wildlife habita Parking/access Value	pecies 📎		yn	
Uniqueness/Heritage Urban upland/proximit Rapid development up Critical habitat/threater endangered species Archaeological sites	land y	n)		

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West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form Wetland ID: 井15 Size: 81.1 Date: 8 07 WEI Project # 06-076NH Rerial Photograph #: 24933-1-32,31,30 Classification: Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Groundwater relationship present Restrictive layer present pezt Subsoil type: Variable water levels observed Other geologic features: thick o Springs or seeps observed Function Present (y)n Contains only inlet or outlet Yes Floodflow Alteration Watershed Information Topographic Information Land cover in catchment area? Topography of watershed: Watershed position Topography of wetland: Other catchment storage Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection Yes No Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** No **Nutrient Removal/Retention Transformation** Hydrology **Transformers** Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present Production Export** Vegetation **Export** Density Detritus Interspersion Aquatic plants Diversity H (M)L Berry producing shrubs Food source Nectar sources **Function Present** Seed/mast sources Yes No Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop), Perennial or intermittent **Characteristics of Stream Description of Bank** Elevation change present Bank present

Bank vegetated

No

Bank eroded

Steep bank Stabilized Bank

High seasonal flows

Channelized flow

Open water fetch

Function Present

Wetland ID: + 15	
Wildlife Habitat Existing Critical Habitat y n	Type: Potential spotted Principal Function title hearter of presence of issues settle
Critical Habitat Features yn	Specific Features: deer work component
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Properties Property	Connectivity Wildlife Corridor (through or adjacent) y) n Wetland connectivity Upland connectivity Strengths of Upland Habitat: Adjecent field heartst
Function Present y n	Yes No
Vegetated Buffer Type: Forel Width Buffer stream or wetland yn Does buffer provide shade y Does buffer adequately safeguard wetland yn	Habitat Degradation Percentage of wetland buffer with encroachment: 3% Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other: Active beaver-Colony
Wetland Values	
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails (Old logging trail) Value	Restoration Stabilization Potential y n Restoration area size: Yn Yn H20 Degradation Present Yn HM L
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	Invasive Species Present: yn Yn Type: HM L
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or	Comments/Notes n n n n n n n n n n n n n
endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value	On schire besser colony Vin Many colonist homes MM L

Town of Fremont	Inventory Func	tional/Value Assessment Da	ta Form
Wetland ID: 16 Classification: p Fo1	Size: 70 a	c. Date: 9/07 Aerial Photograph #: 11-31	WEI Project # 06-076NH
Wetland Function			
Groundwater Recharge	ge/Discharge	Hydrology	Principal Function
Restrictive layer present Subsoil type:		Groundwater relationship present Variable water levels observed	On On On
Other geologic features: Function Present	over aguile	Springs or seeps observed Contains only inlet or outlet	yn Yes No
Floodflow Alteration Watershed Informatio Land cover in catchmen Watershed position Other catchment storage	it area?	Topographic Information Topography of watershed: Topography of wetland: Flack Constricted outlet Beweden	tle to moderate slopes
Watercourse associated	⊘ n	High degree of impervious	n .
Contains hydric A soils Function Present	y)n	surfaces in wetland watershed Provides downstream protection	yn (Yes) No
Sediment/Toxicant/Pa Soils Organic Soils Broad boundary transiti Vegetation Herbaceous vegetation	thogen Retention	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood	On very mina. On west to ATV mils. On
Dense vegetation Function Present	yn yn	Long water retention	Yes No
Nutrient Removal/Ret	ention Transforma		
Hydrology Open water present Slow moving water Nutrients upslope Function Present	n mina. On On n n n	Transformers Organic soils Aquatic vegetation Abundant vegetation	○ n ○ n ○ n ○ Yes No
Production Export Vegetation Density Interspersion Diversity Food source Function Present	MM L HM L HM L On	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	yn On On On On Yes No
Sediment/Shoreline St. Is wetland associated w Characteristics of Stre	ith surface water?	(if no, stop), Perennial or intermitte Description of Bank	nt yes.
Elevation change preser High seasonal flows Channelized flow Open water fetch		Bank present Bank vegetated Bank eroded Steep bank Stebilized Bank	y n y n y n
Function Present	⊘ n	Stabilized Bank	Yes No

West Environmental, Inc.

Wetland ID:		
Wildlife Habitat Existing Critical Habitat n	Type: Shallow mours he habitat.	Principal Function
Critical Habitat Features y n	Specific Features:	
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover On On On On On On On On On O	Connectivity Wildlife Corridor (through or adjacent on the Wetland connectivity on the Upland connectivity on the Strengths of Upland Habitat: Large Fares hed owen Eskers	5
Function Present n	Ferrens.	Yes No
Vegetated Buffer Type: Forest Width: [Buffer stream or wetland on Does buffer provide shade on Does buffer adequately safeguard wetland on Does buffer adequately safeguard wetland of Does buffer adequately safeguard o	Habitat Degradation OO -SooPercentage of wetland buffer with encro Activities that adversely affect wildlife is Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:	function: 5 % ATT was
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails ATV WALLS Value	Restoration Stabilization Potential y n Restoration area size: H20 Degradation Present HML	Road bed?
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	Invasive Species Present: (y)n y)n Type: Small amounts of H M L	c puple loosestnife.
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage (Application of the proximate of the	Comments/Notes yn Large diverse c Jn yn and drains i yn yn HML	auplex that oy westland 17 uso westland 15

	-	nonal/value Assessment Da		n	
Wetland ID: \ 7 Classification: PU(Size: 18 3/EM1H	Date: 8(37) Aerial Photograph #: (0-3)	WEI P1	roject # 06	-076NH
Wetland Functio	<u>ons</u>				
Groundwater Recharg	e/Discharge		1	Principal I	Function
Geology Restrictive layer present Subsoil type: Send Other geologic features: Function Present On	over agmifer	Hydrology Groundwater relationship present Variable water levels observed Springs or seeps observed Contains only inlet or outlet	y n y n y n	Yes	No
Floodflow Alteration Watershed Information	_	Tanaguahia Infansation			
Land cover in catchment	n area? Forest.	Topographic Information Topography of watershed:	odera	de slo	spe s
Watershed position	H)M L	Topography of watershed.	at.		١.
Other catchment storage		Constricted outlet	(V) n	beare	rdam
Watercourse associated	—	High degree of impervious	٠		
Contains hydric A soils	⊘ n	surfaces in wetland watershed	y(n)		
Function Present	(Dn	Provides downstream protection	Øn '	Yes	No
Sediment/Toxicant/Pat	hogen Retention				
Soils	<i>(</i> 3	Setting & Hydrology	6		
Organic Soils	Cyn .	Upstream sources of pollution	у 😭		
Broad boundary transition Vegetation	on y w	Erosion/sedimentation observed Diffuse flow/slow moving water	ym		
Herbaceous vegetation	(i)n	Does wetland flood			
Dense vegetation	(S)n	Long water retention	\(\frac{1}{2}\)		
Function Present	Syn n	Bong water retention		Yes	No
Nutrient Removal/Rete	ention Transforma	tion			
Hydrology	_	Transformers	-		
Open water present	⊘ n	Organic soils	\bigcirc		
Slow moving water	(y)n	Aquatic vegetation	Øn		
Nutrients upslope	y 60	Abundant vegetation	n		
Function Present	O n			Yes	No
Production Export		_			
Vegetation	(Du	Export	6		
Density	H MDL	Detritus A quatia mianta	y n		
Interspersion Diversity		Aquatic plants	₩ ⁿ		
Food source	HMDL	Berry producing shrubs Nectar sources			
Function Present	2	Seed/mast sources		(Ver	No
Tunction Tresent		Seed/mast sources	уш	(1es)	140
Sediment/Shoreline Sta		(if no, stop). Perennial of intermitte	ant		
Characteristics of Stre		Description of Bank	CIII		
Elevation change presen		Bank present	VM		
High seasonal flows	n Øn	Bank present Bank vegetated	\sqrt{n}		
Channelized flow	y n	Bank eroded	van		
Open water fetch	(ŷ)n	Steep bank	y m		
•		Stabilized Bank	y(n)		
Function Present	(ý)n			Yes	No

West Environmental, Inc.

Wetland ID: \ \	
Wildlife Habitat Existing Critical Habitat(y)n	Type: clasp / Shallow marsh Principal Function
	Type: cleep / Shallow marsh Principal Function for Secretive waching
Critical Habitat Features y n	Specific Features:
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Piversity Features On On On On On On On On On O	Connectivity Wildlife Corridor (through or adjacenty yn Wetland connectivity Upland connectivity Strengths of Upland Habitat:
Function Present (y)n	vary high - large buffers with. varial pools present. (Yes) No
Vegetated Buffer Type: Peres Width Buffer stream or wetland yn Does buffer provide shade yn Does buffer adequately safeguard wetland yn Wetland Values	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other: Beachiful isolated beaver pand will well established marsh
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails	Restoration Stabilization Potential y n y n Restoration area size: y n H2O Degradation Present
Value	HM L
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	Invasive Species Present: On On Type: y n H ML
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value	Comments/Notes y (1) y (1) y (1) y (1) On potential Blanding Turthe habitat. y (1) On y (1) On HML

West Environmental, Inc. Town of Fremont Inventory Func	tional/Value Assessment Data Form
Wetland ID: 18/19 Size: 13.1 Classification: PFOHE	Date: 8/07 WEI Project # 06-076NH Aerial Photograph #: 8-28.
Wetland Functions	
Groundwater Recharge Discharge Geology Restrictive layer present on Subsoil type: Grave over ledge Other geologic features: Function Present	Hydrology Groundwater relationship present Variable water levels observed Springs or seeps observed Contains only inlet or outlet Principal Function n y N N Yes
Floodflow Alteration Watershed Information Land cover in catchment area? Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present	Topographic Information Topography of watershed: Topography of wetland: Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection Yes No
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition on Vegetation Herbaceous vegetation Dense vegetation Function Present Soils On Dn	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention Setting & Hydrology Upstream sources of pollution On Does wetland sood Vin Yes No
Nutrient Removal/Retention Transform Hydrology Open water present Slow moving water Nutrients upslope Function Present Production Export	Transformers Organic soils Aquatic vegetation Abundant vegetation Yes
Production Export Vegetation Density Interspersion Diversity Food source Function Present Production Export H ML H M	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources Yes No
Sediment/Shoreline Stabilization Is wetland associated with surface water? Characteristics of Stream	(if no, stop). Perennial or intermittent Description of Bank
Elevation change present y n High seasonal flows y n Channelized flow y n Open water fetch y n	Bank present y n Bank vegetated y n Bank eroded y n Steep bank y n Stabilized Bank y n
Function Present y n	Yes (No)

Wetland ID: 18/19.			
Wildlife Habitat Existing Critical Habitat y	Тур	e:	Principal Function
Critical Habitat Features y n)	Specific Features:	
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Diversity Features On N N N N N N N N N N N N N		Connectivity Wildlife Corridor (through or adjacer Wetland connectivity Upland connectivity Strengths of Upland Habitat: Diverse Fave 5	Øn
Function Present			(Yes) No
Vegetated Buffer Type: Width: Buffer stream or wetland on Does buffer provide shade on Does buffer adequately safeguard wetland on	500	Habitat Degradation Percentage of wetland buffer with Activities that adversely affect wi Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:	ildlife function: 0%
Wetland Values			
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value	E PER MI	Restoration Stabilization Poten y Restoration area size: H2O Degradation Present	n
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	у Д	Invasive Species Present: Type:	n
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value	y y y y y y y h H	Comments/Notes Basic Her with law	n lock Swamp.

West Environmental, Inc. Town of Fremont Inventory Funct	ional/Value Assessment Da	ata Fori	m		
Wetland ID: 20 Size: 61 Classification: PUB PEMI/SSI + PFOHE	Date: Aerial Photograph #: 9-3	WEIP	roject # 06-	-076NH	
₩etland Functions					
Groundwater Recharge/Discharge		1	Principal F	En netion	
Geology	Hydrology	'	· · incipai i	unction	
Restrictive layer present y	Groundwater relationship presen	t 🕥			
Subsoil type: Sands + grave	Variable water levels observed	\bigcirc			
Other geologic features: or aquifer Function Present (y)n	Springs or seeps observed Contains only inlet or outlet	y (n)	(m)	No	
runction i resent (y)n	Contains only linet of outlet	COPY	(Yes)	100	
Floodflow Alteration					
Watershed Information	Topographic Information	a Ho	ba m	oduate	5/0000
Land cover in catchment area? Residuh	Topography of watershed:			0000	Siopes
Watershed position HML Other catchment storage © n	Topography of wetland: Constricted outlet				
Watercourse associated (y)n	High degree of impervious	(V)			
Contains hydric A soils (y)n	surfaces in wetland watershed	y(n)	ı		
Function Present 5n	Provides downstream protection	Øn °	Yes	No	
Sadimont/Taniana//Dathaman Datastina					
Sediment/Toxicant/Pathogen Retention Soils	Setting & Hydrology				
Organic Soils On	Upstream sources of pollution	(ý) n			
Broad boundary transition you	Erosion/sedimentation observed	y 📵			
Vegetation	Diffuse flow/slow moving water				
Herbaceous vegetation on	Does wetland flood	\bigcirc n			
Dense vegetation	Long water retention	y n	(3)	× 1	
Function Present n			Yes	No	
Nutrient Removal/Retention Transforma	<u>tion</u>				
Hydrology	Transformers	_			
Open water present	Organic soils	⊘ n			
Slow moving water	Aquatic vegetation	y n			
Nutrients upslope Function Present yn yn	Abundant vegetation	(W)n	(m)	No	
ranction resent			Yes	110	
Production Export					
Vegetation	Export	<u>_</u> .			
Density (H) M L	Detritus	Ø n			
Interspersion AM L Diversity HM L	Aquatic plants	$(\mathcal{Y})_{\mathbf{n}}$			
Diversity H M L Food source V II	Berry producing shrubs Nectar sources	On Con			
Function Present	Seed/mast sources	₩,	(Yes)	No	
		<u>ب</u>			
Sediment/Shoreline Stabilization	Constant Description				
Is wetland associated with surface water? (Characteristics of Stream	if no, stop), Perennial or intermitt	ent			
Elevation change present (n)	Description of Bank Bank present	On			
High seasonal flows (y)n	Bank vegetated				
Channelized flow	Bank eroded	Y n	ı		
Open water fetch (y)n	Steep bank) (D)			
	Stabilized Bank	(y) n			
Function Present (y)n		_	(Yes)	No	

	Wetland ID: ZO				
	Wildlife Habitat Existing Critical Habitat	Тур	isolated open c with deep + 5 h	vater Princip	oal Function ; L
	Critical Habitat Features n		Specific Features: Open (water 50	undedby
	Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Pive Teatures yn yn yn yn yn yn yn yn yn y		Wildlife Corridor (through or adjace Wetland connectivity Upland connectivity Strengths of Upland Habitat	ent n n n n n	
	Function Present		No hauses an		es No
	Vegetated Buffer Type: Widtl Buffer stream or wetland on Does buffer provide shade on Does buffer adequately safeguard wetland on	1:50-50c	Habitat Degradation Percentage of wetland buffer with Activities that adversely affect we Existing structure(s) that obstruction animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:	vildlife function:	10%
	Wetland Values				
	Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails		Restoration Stabilization Pote y n Restoration area size: H2O Degradation Present	ntial	
^	Value	⊕M L			
	Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	⊗n yn yn H) M-L	Invasive Species Present: Type:	yn	
	Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites		Comments/Notes Blandings Tulke	Wabitat.	
	Stonewalls present Historic sites Ecological health/vigor Value	The state of the s			

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Wetland ID: 21	Size: 17.8	Date: 8(0)	WEI Project # 06-076NH
Classification: P551/	FOIE	Date: 8107 Aerial Photograph #: 9-3	3
Wetland Function		·	
Groundwater Recharge	Discharge		Principal Function
Geology		Hydrology	· · · · · · · · · · · · · · · · · · ·
Restrictive layer present (n v	Groundwater relationship present	у 🕡
	2/ gravel.	Variable water levels observed	Øn.
Other geologic features:	None	Springs or seeps observed	y© -
Function Present (y)n		Contains only inlet or outlet	yn Yes No
Floodflow Alteration			
Watershed Information		Topographic Information	Ma be manalaque c
Land cover in catchment a	rea? Fores.	Topography of watershed:	wile of moderates
Watershed position (H) M L	Topography of wetland:	utle to moderate s lat. On culvert under d
Other catchment storage (ŷ)n	Constricted outlet	On culvert under
Watercourse associated	Уn	High degree of impervious	
Contains hydric A soils 7	Уn	surfaces in wetland watershed	y(n)
Function Present	ýп	Provides downstream protection	n Yes No
Sediment/Toxicant/Patho	gen Retention		
Soils	2	Setting & Hydrology	
Organic Soils (y) n	Upstream sources of pollution	On ATVA
Broad boundary transition	D n	Erosion/sedimentation observed	on along HTV +
Vegetation	_	Diffuse flow/slow moving water	On along PTIVE
Herbaceous vegetation (⊉ n	Does wetland flood	⊘ n
Dense vegetation	y n	Long water retention	(y)n
Function Present (ý) n		(Yes) No
Nutrient Removal/Reten	tion Transforma		
Hydrology	C 2	Transformers	
Open water present	y (a)	Organic soils	(y)n
Slow moving water (y n	Aquatic vegetation	y n
Nutrients upslope	y)n	Abundant vegetation	Øn C
Function Present	D n		Yes No
Production Export		_	
Vegetation	65.	Export	
Density	HMDL	Detritus	y (n)
Interspersion	HML	Aquatic plants	y(n)
Diversity	HML	Berry producing shrubs	(y) n
Food source	₽ n	Nectar sources	(yn
Function Present (Ŋ n	Seed/mast sources	(Yes) (Yes)
Sediment/Shoreline Stab			_
Is wetland associated with		(if no, stop), Perennial (r intermitte	ent
Characteristics of Stream		Description of Bank	
Elevation change present	D i	Bank present	⊘ n
High seasonal flows	р́n	Bank vegetated	
Channelized flow	ŷ) <u>n</u>	Bank eroded	y (F)
Open water fetch	(A)	Steep bank	O n
		Stabilized Bank	3
Function Present	y)n		(Yes) No

Wildlife Habitat Existing Critical Habitat y	Туре:	Principal Function
Critical Habitat Features yn	Specific Features:	
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Pive Features y n y n y n y n	Connectivity Wildlife Corridor (through or adjace Wetland connectivity Upland connectivity Strengths of Upland Habitat:	n n
Function Present y n		Yes No
Vegetated Buffer Type: Yees Width: Buffer stream or wetland On Does buffer provide shade n Does buffer adequately safeguard wetland On	Habitat Degradation Percentage of wetland buffer with Activities that adversely affect of Existing structure(s) that obstruture animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:	wildlife function: 10%
Wetland Values		
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value	Restoration Stabilization Pote y n y f y n Restoration area size: H20 Degradation Present H ML	On Fran ATV trail
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	Invasive Species Present: y n y n Type: H M 1	y (n)
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value	Comments/Notes n y n y n y n y n H M L	

West Environmental, Inc. Town of Fremont Inventory Fu	nctional/Value Assessment Data Form
Wetland ID: 20 Size: 20 Classification: Pro1/46	Date: 8(07 WEI Project # 06-076NH Aerial Photograph #: 9 3
Wetland Functions	
Groundwater Recharge Discharge Geology Restrictive layer present Subsoil type: Other geologic features: Function Present On	Hydrology Groundwater relationship present Variable water levels observed Springs or seeps observed Contains only inlet or outlet Principal Function n Yes No
Floodflow Alteration Watershed Information Land cover in catchment area? Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present Watershed Information HM L Yn	Topographic Information Topography of watershed: Topography of wetland: Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection Topographic Information Topography of watershed:
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition y no Vegetation Herbaceous vegetation Dense vegetation Function Present Soils On Dn	
Nutrient Removal/Retention Transform Hydrology Open water present Slow moving water Nutrients upslope Function Present Yn Yn Yn	Transformers Organic soils Aquatic vegetation Abundant vegetation Yes
Production Export Vegetation Density Interspersion Diversity Food source Function Present Function Export HML HML TML TML TML TML TML TML	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources Yn Yn Yes No
Sediment/Shoreline Stabilization Is wetland associated with surface water Characteristics of Stream Elevation change present y n High seasonal flows y n Channelized flow y n Open water fetch y n Function Present y n	Pescription of Bank Bank present Bank vegetated Bank eroded Steep bank Stabilized Bank Perennial or intermittent y n y n y n y n Yes No

Existing Critical Habitat yn	Туре	::		Principa	l Function
Critical Habitat Features yn		Specific Features:			
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources On On On On On On On On On O		Connectivity Wildlife Corridor (through or adjacer Wetland connectivity Upland connectivity Strengths of Upland Habitat:		:14.	200
Function Present (y)n		Strengths of Upland Habitat:	250	wru	7
				Ye	s)No
Vegetated Buffer Type: Width: 5 Buffer stream or wetland on Does buffer provide shade on Does buffer adequately safeguard wetland on Yn	500	Habitat Degradation Percentage of wetland buffer with Activities that adversely affect wi Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:	ildlife fi	unction:	0%
Wetland Values					
Recreational Value Parking available Watercraft access Fishing available Hunting permitted		Restoration Stabilization Poten y (n) Restoration area size: H2O Degradation	tial		
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails		y (n) Restoration area size: H2O Degradation Present	y n	Ď	
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value	H M	y (n) Restoration area size: H20 Degradation Present			
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access		y (n) Restoration area size: H2O Degradation Present			
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat	Ca.	y (n) Restoration area size: H2O Degradation Present Invasive Species Present:			

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Town of Fremont Inventory Funct	ional/Value Assessment Data Form
Wetland ID: 23 Size: 4.6 Classification: PFO1/4-551E	Date: 8 (07 WEI Project # 06-076NH Aerial Photograph #: 9 - 3
Wetland Functions	
Groundwater Recharge Discharge Geology Restrictive layer present yn Subsoil type: Ledge Jame I Other geologic features: Estreus Function Present yn	Hydrology Groundwater relationship present
Floodflow Alteration Watershed Information Land cover in catchment area? Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present Floodflow Alteration HM L yn yn	Topographic Information Topography of watershed: Wooderate Slopes Topography of wetland: Flat. Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection on Yes No
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition y n Vegetation Herbaceous vegetation Dense vegetation Function Present Soils y n n n n	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention Yes No
Nutrient Removal/Retention Transforms Hydrology Open water present Slow moving water Nutrients upslope Function Present Yn n yn n	Transformers Organic soils Aquatic vegetation Abundant vegetation Yes No
Production Export Vegetation Density Interspersion Diversity Food source Function Present Production Export HML LML LML LML LML LML LML LML LML LM	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources No The set of th
Sediment/Shoreline Stabilization Is wetland associated with surface water? Characteristics of Stream Elevation change present y n High seasonal flows y n Channelized flow y n Open water fetch y n	(if no, stop). Perennial or intermittent
Function Present V n	Yes (No)

West Environmental, Inc.

Wetland ID: 3 Wildlife Habitat Existing Critical Habitat yn Typ	pe: Venal pool habitat. Principal Function
Critical Habitat Features y n	Specific Features:
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover	Connectivity Wildlife Corridor (through or adjacent y) n Wetland connectivity Upland connectivity Strengths of Upland Habitat: Eshes and Mahne Favest
Function Present yn	Yes
Vegetated Buffer Type: Fave S Width: 500 Buffer stream or wetland (v) n Does buffer provide shade (v) n Does buffer adequately safeguard wetland (v) n	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other: O 70 O
Wetland Values Recreational Value Parking available	There is a cleared Road? to the west and worth of the wetland for Fuhre Development? Restoration Stabilization Potential y(1)
Watercraft access Fishing available Hunting permitted Walking/biking trails yn yn yn yn	Restoration area size: H2O Degradation Present y n
Value H M(
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value Value Comparison	Invasive Species Present: y Type:
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage y n y n y n y n y n y n y n y	Comments/Notes

Town of Fremont Inventory Functional/Value Assessment Data Form Date: 8(07 Aerial Photograph #: 9-3) Size: 9.8 WEI Project # 06-076NH Classification: PROIED Wetland Functions Groundwater Recharge Discharge **Principal Function** Hydrology Geology Restrictive layer present (y)n Groundwater relationship present Subsoil type: Variable water levels observed Other geologic features: es 25 Springs or seeps observed Function Present (n Contains only inlet or outlet Floodflow Alteration Watershed Information Topographic Information moderale slopes Flat Land cover in catchment area? Topography of watershed: Watershed position Topography of wetland: Other catchment storage 🕢 n Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection (Yes Sediment/Toxicant/Pathogen Retention Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y(n) Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Does wetland flood Herbaceous vegetation Dense vegetation Long water retention **Function Present** No **Nutrient Removal/Retention Transformation** Hydrology **Transformers** Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present** No Yes **Production Export** Vegetation Export Density Detritus Interspersion Aquatic plants Diversity Berry producing shrubs Food source Nectar sources Function Present Seed/mast sources Sediment/Shoreline Stabilization NO Is wetland associated with surface water? (if no, stop), Perennial or intermittent **Characteristics of Stream Description of Bank** Elevation change present y n Bank present y n y n High seasonal flows Bank vegetated y n Channelized flow Bank eroded y n Open water fetch Steep bank y n y n Stabilized Bank y n

West Environmental, Inc.

Function Present

Wetland ID: 24	
Wildlife Habitat Existing Critical Habitat y(n) Type	Principal Function
Critical Habitat Features y	Specific Features:
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover On n n n n y n y n y n y n	Connectivity Wildlife Corridor (through or adjacent) y(n) Wetland connectivity Upland connectivity On Strengths of Upland Habitat: No very String due to adjacent development
Function Present (y) n	No.
Vegetated Buffer Type: Woodland Width: 0-200 Buffer stream or wetland yn Does buffer provide shad n Does buffer adequately safeguard wetland yn	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other: New hanse with driveway that Crosses we hand. Lots of old fill t
Wetland Values	trush an sailuside
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Win yin yin n yin n	Restoration Stabilization Potential y(n) Restoration area size: H20 Degradation Present On Stanuater multiple wash.
Value H M (
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value Educational/Scientific Value y G y T H M L	Invasive Species Present: Type: Typ
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage yn yn yn H M	Comments/Notes Wethend Degraded by endyacent development.

Town of Fremont Inventory Funct	tional/Value Assessment Da	ta Form
Wetland ID: 25 * Size: 19.7 Classification: PFO1/4E	3 Date: 9/07 Aerial Photograph #: 9-3	WEI Project # 06-076NH
Wetland Functions		
Groundwater Recharge Discharge Geology Restrictive layer present (y) n Subsoil type: Ledge I game I Other geologic features: Egwey S Function Present (y) n	Hydrology Groundwater relationship present Variable water levels observed Springs or seeps observed Contains only inlet or outlet	Principal Function On On On Yes No
Floodflow Alteration Watershed Information Land cover in catchment area? Forest Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present Watershed Information HM L Outs The Market Storage Yn Yn	Topographic Information Topography of watershed: Topography of wetland: Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection	oderate slopes On woods voads/Esters On (Ves) No
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition on Vegetation Herbaceous vegetation Dense vegetation Function Present Note that I was a second of the second of th	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention	On to the west. y(n) On On (Yes) No
Nutrient Removal/Retention Transforma Hydrology Open water present Slow moving water Nutrients upslope Function Present Production Export	Transformers Organic soils Aquatic vegetation Abundant vegetation	n y fi y n Yes No
Vegetation Density Interspersion Diversity Food source Function Present HML FOR L HML FOR L FOR	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	y(n) y(n) y(n) y(n) n (Yes) No
Sediment/Shoreline Stabilization Is wetland associated with surface water? Characteristics of Stream Elevation change present y n High seasonal flows y n Channelized flow y n Open water fetch y n Function Present y n	(if no, stop), Perennial or intermitte Description of Bank Bank present Bank vegetated Bank eroded Steep bank Stabilized Bank	y n y n y n y n y n y n y n y n Yes No

West Environmental, Inc.

Wildlife Habitat Existing Critical Habitat y n	Type: Venal pool habitat. Principal Function
Critical Habitat Features n	Specific Features: Varge Farested we Hand nit
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Function Present yn yn yn yn yn yn	Connectivity Wildlife Corridor (through or adjacent) \(\mathcal{V} \) n Wetland connectivity Upland connectivity Strengths of Upland Habitat: Mathre Frest w/ Es kers and Se buffers are much most of the west west. Yes No
Vegetated Buffer Type: Free S / Res. Width: Buffer stream or wetland on Does buffer provide shade on Does buffer adequately safeguard wetland on	Habitat Degradation
Wetland Values	
Recreational Value Parking available Watercraft access Fishing available Hunting permitted	Restoration Stabilization Potential y n y n Restoration area size: y n H20 Degradation
Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails	y n y n y n y n y n y n y n Restoration area size:
Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value Educational/Scientific Value	y n y n Restoration area size: y n H2O Degradation y n Present y n

West Environmental, Inc. Town of Fremont Inventory Funct	ional/Value Assessment Dat	ta Form
Wetland ID: 26 * Size: 163. Classification: PF05/EMIE	Date: 8/07 Aerial Photograph #:	WEI Project # 06-076NH
Wetland Functions		
Groundwater Recharge/Discharge Geology Restrictive layer present y (n) Subsoil type: Sand + gravel Other geologic features: over again fee Function Present (y)n	Hydrology Groundwater relationship present Variable water levels observed Springs or seeps observed Contains only inlet of outlet	Principal Function On On On On On On On On On
Floodflow Alteration Watershed Information Land cover in catchment area? Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present Natural Contains Function Present	Topographic Information Topography of watershed: Topography of wetland: Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection	derate to gent le Slopes it. On beauer dams. On (Pes) No
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition on Vegetation Herbaceous vegetation Dense vegetation Function Present Soils n n n n n n n n n n n n n n n n n n	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention	On Miles y(n) y(n) y(n) y(n) Yes No
Nutrient Removal/Retention Transformate Hydrology Open water present Slow moving water Nutrients upslope Function Present Nutrients upslope Function Present Nutrients upslope Function Present Nutrients upslope Function Present	Transformers Organic soils Aquatic vegetation Abundant vegetation	(V)n (V)n (Ves) No
Production Export Vegetation Density Interspersion Diversity Food source Function Present PM L HM L HM L FOOD SOURCE Y n	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	yn yn yn yn yn Yn Yes No
Sediment/Shoreline Stabilization Is wetland associated with surface water?(Characteristics of Stream Elevation change present yn High seasonal flows Channelized flow Open water fetch Function Present yn yn yn yn yn yn	if no, stop), Perennial or intermitte Description of Bank Bank present Bank vegetated Bank eroded Steep bank Stabilized Bank	nt Yes. yn yn yn Yes No

Wetland ID: 26	
Wildlife Habitat Existing Critical Habitat y Typ	bird habitat. Principal Function
Critical Habitat Features y n	Specific Features:
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover	Connectivity Wildlife Corridor (through or adjacent (3) n Wetland connectivity Upland connectivity Strengths of Upland Habitat: Mahne Fenest with vernal pools.
Function Present (y)	(Yes) No
Vegetated Buffer Type: Twes Width: See Buffer stream or wetland On Does buffer provide shade on Does buffer adequately safeguard wetland On	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:
Wetland Values	
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails	Restoration Stabilization Potential y n Restoration area size: H2O Degradation Present
Value H M	
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value H M I	Invasive Species Present: On Type: phragmites + purple (ooses tite. mina anants.
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Un y n y n y n H M M	Comments/Notes Large shallow/ Deep marsh. The well profected at present.

West Environmental, Inc. Town of Fremont Inventory Fund	ctional/Value Assessment Da	ata Form
Wetland ID: 27 * Size: 14 Classification: PFO1/EMIE PUBLE + PEMLE Wetland Functions	Date: 8/67 Aerial Photograph #: 11-28	WEI Project # 06-076NH 5 + 11-29
Groundwater Recharge/Discharge Geology Restrictive layer present y(n) Subsoil type: Sand Farmel Other geologic features: overlagnil Function Present (y)n	Hydrology Groundwater relationship present Variable water levels observed Springs or seeps observed Contains only inlet or outlet	Principal Function on the principal of
Floodflow Alteration Watershed Information Land cover in catchment area? Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present Yn	Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection	oderate slopes. at to gentle slope On beaver dans. On (Yes) No
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition on Vegetation Herbaceous vegetation Dense vegetation Function Present Soils n p n y n p n Function Present	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention	
Nutrient Removal/Retention Transform Hydrology Open water present Slow moving water Nutrients upslope Function Present Nutrients upslope Function Present Nutrients upslope Function Present	Transformers Organic soils Aquatic vegetation Abundant vegetation	n n n Yes No
Production Export Vegetation Density Interspersion Diversity Food source Function Present HM L HM L FOOD SOURCE FUNCTION PRESENT FOOD SOURCE FUNCTION PRESENT	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	yn yn yn Yes No
Sediment/Shoreline Stabilization Is wetland associated with surface water? Characteristics of Stream Elevation change present on high seasonal flows Channelized flow Open water fetch Function Present on yn Yn	(if no, stop), Perennial of intermit Description of Bank Bank present Bank vegetated Bank eroded Steep bank Stabilized Bank	ves. On On in a Few places On (yn (yn) (Yes) No

Wetland ID: 21	
Wildlife Habitat Existing Critical Habitat yn Typ	e: Pobenhail Blandings Principal Function Turtle Habital
Critical Habitat Features n	Specific Features: cleep marsh + open water hat
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover	Connectivity Wildlife Corridor (through or adjacent) n Wetland connectivity Upland connectivity Strengths of Upland Habitat:
Function Present (y)n	Thick Coniferans Parest with some development. Yes No
Vegetated Buffer Type: Frest Width: 0-250 Buffer stream or wetland On Does buffer provide shade on Does buffer adequately safeguard wetland you work in Sauthern and. Wetland Values Recreational Value Parking available Width: 0-250 Width: 0-250 Wetland or wetland on Does buffer adequately safeguard wetland you was a second of the same and of the	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other: Mayor by of welland publicled by buffer Restoration Stabilization Potential
Watercraft access Fishing available Hunting permitted Walking/biking trails Value H M I	H20 Degradation Present Poseurally associated w/ New road.
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value H M	Invasive Species Present: On Type: purple 100 se 50 FE
Uniqueness/Heritage Urban upland/proximity y n Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage y n y n y n y n Historic sites Feological health/vigor Value Uniqueness/Heritage y n y n Historic sites Feological health/vigor Value	Comments/Notes Wigh degree of disturbance atang arand Sulten end of welland.

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Town of Fremont Inventory Functional/Value Assessment Data Form Wetland ID: 28. Size: 4.5 Date: 807 Classification: PRO1/4E Aerial Photograph #: WEI Project # 06-076NH Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present Subsoil type: Sand + greet Groundwater relationship present (y)n Variable water levels observed Other geologic features: Springs or seeps observed Function Present (y)n Contains only inlet or outlet Floodflow Alteration Watershed Information **Topographic Information** Land cover in catchment area? Res moderale s lopes flat. On driveway culvat. Topography of watershed: CHUM L Watershed position Topography of wetland: Other catchment storage y(n) Constricted outlet Watercourse associated On High degree of impervious Contains hydric A soils (y)n surfaces in wetland watershed **Function Present** Provides downstream protection Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y n Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** No **Nutrient Removal/Retention Transformation Transformers** Hydrology Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present** Production Export Vegetation Export Density Detritus Interspersion Aquatic plants Berry producing shrubs Diversity Food source Nectar sources **Function Present** Seed/mast sources Yes Sediment/Shoreline Stabilization NO Is wetland associated with surface water? (if no, stop), Perennial or intermittent **Characteristics of Stream** Description of Bank Elevation change present y n Bank present y n High seasonal flows y n Bank vegetated y n Channelized flow Bank eroded y n y n Open water fetch y n Steep bank y n Stabilized Bank y n

West Environmental, Inc.

Function Present

Existing Critical Habitat y(n	Type: Principal Function
Critical Habitat Features 🕡	Specific Features:
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Piversity Features yn yn yn yn	Connectivity Wildlife Corridor (through or adjacent) y(n) Wetland connectivity Upland connectivity Strengths of Upland Habitat: Mixed manne faces Sence one house w/ dhinerary (Yes) No
Function Present yn	Same one house w/ derivery
Vegetated Buffer Type: Widt Buffer stream or wetland on Does buffer provide shade on Does buffer adequately safeguard wetland on	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:
Wetland Values	
Recreational Value Parking available	Restoration Stabilization Potential y n y n Restoration area size:
Watercraft access Fishing available Hunting permitted Walking/biking trails	y n H2O Degradation y n Present y n
Fishing available Hunting permitted	y n H2O Degradation
Fishing available Hunting permitted Walking/biking trails	y n N H2O Degradation y n Present y n

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form Wetland ID: 29 Size: 9.8 4.0 Date: 8/07 Classification: PEM 1/551E Aerial Photograph #: 1. WEI Project # 06-076NH Wetland Functions PUBH Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present y n Groundwater relationship present (Subsoil type: 5 and Variable water levels observed Other geologic features: Springs or seeps observed Function Present (y) n Contains only inlet or outlet Floodflow Alteration Watershed Information Land cover in catchment area? Topography of watershed: Topography of wetland: Floodflow Alteration Other catchment storage Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection Yes No Sediment/Toxicant/Pathogen Retention Setting & Hydrology Soils. Organic Soils Upstream sources of pollution Broad boundary transition y(n) Erosion/sedimentation observed y(n) Diffuse flow/slow moving water Vegetation Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** No **Nutrient Removal/Retention Transformation Transformers** Hydrology Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation (Yes **Function Present** No **Production Export** Vegetation **Export** Density Detritus Interspersion Aquatic plants Diversity Berry producing shrubs Food source Nectar sources Function Present Seed/mast sources

Sediment/Shoreline Stabilization

Is wetland associated with surface water? (if no, stop), Perennial or intermittent NO.

Characteristics of Stream Description of Bank Elevation change present y n Bank present y n High seasonal flows Bank vegetated Channelized flow Bank eroded y n Open water fetch y n Steep bank y n Stabilized Bank y n Function Present y n

	Wetland ID: 29	
	Wildlife Habitat Existing Critical Habitat y Type	e: Principal Function
	Critical Habitat Features y	Specific Features:
	Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Function Present	Connectivity Wildlife Corridor (through or adjacent) y (n) Wetland connectivity Upland connectivity Strengths of Upland Habitat: Matrie Fare St Once way S & Bess Have S Summ d are Mad. Yes No
	Buffer stream or wetland on Does buffer provide shade on Does buffer adequately safeguard wetland	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other: Cally abandaned beaver pand.
-	Wetland Values	•
	Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value Walue	Restoration Stabilization Potential y n Restoration area size: H2O Degradation Present On Same frush in pand.
	Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value Educational/Scientific Value y n y n H M L	Invasive Species Present: yn Type:
	Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage y n y n y n H M L	Comments/Notes 4 hanses arend small welland w/ driveway crossing biseching welland

West Environmental, Inc. Town of Fremont Inventory Func		
Wetland ID: 30 Size: 10 according Pobles Publish Hb. Wetland Functions	Aerial Photograph #: 11-2	WEI Project # 06-076NH
Groundwater Recharge Discharge		Principal Function
Geology	Hydrology	
Restrictive layer present y 6	Groundwater relationship presen	nt (v)n
Subsoil type: Sand & grave	Variable water levels observed	
Other geologic features: Eshors	Springs or seeps observed	Øn €
Function Present yn	Contains only inlet or outlet	yn Yes No
Floodflow Alteration		
Watershed Information	Topographic Information	1 + -1
Land cover in catchment area? Farest.	Topography of watershed: 5	entle to moderate slopes.
Watershed position (H) M L	Topography of wetland:	entle to moderate slopes. lat On woods roads / bearer
Other catchment storage On	Constricted outlet	On woods voads / bearer
Watercourse associated (y)n	High degree of impervious	dan
Contains hydric A soils (n	surfaces in wetland watershed	у 🗇 🛴
Function Present On	Provides downstream protection	n (Yes) No
Sediment/Toxicant/Pathogen Retention		
Soils	Setting & Hydrology	
Organic Soils 💮 n	Upstream sources of pollution	y n) i y n)
Broad boundary transition yn	Erosion/sedimentation observed	
Vegetation	Diffuse flow/slow moving water	r 💯 n
Herbaceous vegetation (y)n	Does wetland flood	ý n
Dense vegetation yn	Long water retention	(y)n
Function Present n		Yes No
Nutrient Removal/Retention Transform	ation	
Hydrology	Transformers	
Open water present 💋 n	Organic soils	◯ n
Slow moving water (y) n	Aquatic vegetation	Ç y n
Nutrients upslope	Abundant vegetation	₩n
Function Present (y)n		Yes No
Production Export		
Vegetation	Export	
Density WM L	Detritus	Ør −
Interspersion HM L	Aquatic plants	(y)n
Diversity HM L	Berry producing shrubs	⊘ n
Food source (y)n	Nectar sources	
Function Present (y)n	Seed/mast sources	n (Yes) No
Sediment/Shoreline Stabilization	((5)	1125
Is wetland associated with surface water?	(if no. stop). Perennial or intermit	ttent) Y.2 S
Characteristics of Stream	Description of Bank	(ion
Elevation change present on	Bank present	(y)"
High seasonal flows (y)n Channelized flow (y)n	Bank vegetated Bank eroded	
	Steep bank	V(n)
Open water fetch yn	Stabilized Bank	(y)n
Function Present yn		(Yes) No

Wetland ID: 30	
Wildlife Habitat Existing Critical Habitaty n	Type: Blandings Turke Blandings Turke Principal Function
Critical Habitat Features y n	Specific Features: Deep Mongh open water.
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover	Connectivity Wildlife Corridor (through or adjacent (i) n Wetland connectivity Upland connectivity Strengths of Upland Habitat: Mix of thick camifers and decidens woodland woods wads
Function Present (y)n	decidors woodland willoods hady
Vegetated Buffer	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or
Wetland Values Recreational Value	otter habitat Other: Woods woods have culturets or Strong Foods that do Not limit Move went because of lack of Restoration Stabilization Potential
Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails	y © y © Restoration area size: y © Present On Oxide 5 HML Nohmlly occurring
Value	HODE Normally occurry
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	Invasive Species Present: n Type: yGD H L
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value	y Comments/Notes y Diverse series of beaver On Pands with a varich, of habital and go cramberry on present.

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form Wetland ID: 3132 Size: 13 WEI Project # 06-076NH Classification: PEMIF6/ PEMIE6 Aerial Photograph #: 24933-1- 28 Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology proximity to equifer Restrictive layer present y(n) Groundwater relationship present (y)n Subsoil type: mucky pest Variable water levels observed Other geologic features: Springs or seeps observed Function Present (y)n Contains only inlet or outlet Floodflow Alteration Watershed Information **Topographic Information** Land cover in catchment area? Forest relatively flat relatively flat (2) (current activity by berier) Topography of watershed: Watershed position (H)M L Topography of wetland: Other catchment storage (y)n Constricted outlet Watercourse associated yn? High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y) Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** Yes Nutrient Removal/Retention Transformation Hydrology **Transformers** Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present** Yes **Production Export** Vegetation **Export** Density Detritus Interspersion Aquatic plants Diversity Berry producing shrubs Food source Nectar sources Function Present Seed/mast sources No Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop), Perennial or intermittent **Characteristics of Stream** Description of Bank Elevation change present x(n Bank present y(n High seasonal flows Bank vegetated y n photo sincests the y(n) Channelized flow

Bank eroded

Stabilized Bank

Steep bank

Open water fetch

Function Present

preserve 3 11 or

(1) Streems

No

Existing Critical Habitat y	Type: Deep mers-	Principal Function
Critical Habitat Features y	n Specific Features: Provides	potential resitet - n; and Blanding & Spotted to
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees On n On n	Wetland connectivity	yn Spatted to
Fisheries habitat Cavity trees Food sources Cover Vin Vin Vin Vin Vin Vin Vin Vin Vin Vi	Strengths of Upland Habitat:	
Function Present yn	Adjacent to lar	as . Yes No
Vegetated Buffer Type: Forcet Wide Buffer stream or wetland yn Does buffer provide shade yn Does buffer adequately safeguard wetland yn	Activities that adversely affect wild Existing structure(s) that obstruct animal movement	
Wetland Values Recreational Value	Restoration Stabilization Potenti	al
	A COSTO I MICHOLINE MILLIANTE DE LA COUNTE	
Parking available Watercraft access Fishing available Hunting permitted	yn yn Restoration area size: yn H2O Degradation	
Parking available Watercraft access Fishing available	yn yn Restoration area size:	Dn yessibly by AT 4- wheel drive a
Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails	yn yn Restoration area size: yn Restoration area size: yn H2O Degradation yn Present HML	
Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access	Restoration area size: yn Nn H2O Degradation Present HML Invasive Species Present: Type: n HM L Comments/Notes yn yn yn	

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form Date: 9/07 Wetland ID: 33 Size: 7.5 WEI Project # 06-076NH Aerial Photograph #: 11-28 Classification: PSS 1 E Wetland Functions Groundwater Recharge Discharge **Principal Function** Hydrology Geology Restrictive layer present y n Subsoil type: Sand + grave (Other geologic features: over aquifar Function Present (n Groundwater relationship present (y)n Variable water levels observed Springs or seeps observed Contains only inlet or outlet Floodflow Alteration Watershed Information Ros/S and P: LTopographic Information Land cover in catchment area? Fuer. Topography of watershed: gentle to moderate Stopes (HDM L Topography of wetland: Watershed position On Beede Will Road. Other catchment storage yn Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection Sediment/Toxicant/Pathogen Retention Setting & Hydrology Soils Organic Soils Upstream sources of pollution On Fun Sand Pit. Erosion/sedimentation observed Broad boundary transition y(n) Diffuse flow/slow moving water Vegetation Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** No **Nutrient Removal/Retention Transformation Transformers** Hydrology Open water present Organic soils Aquatic vegetation Slow moving water Abundant vegetation Nutrients upslope **Function Present** No Production Export **Export** Vegetation Detritus Density Aquatic plants Interspersion Berry producing shrubs Diversity Food source Nectar sources **Function Present** Seed/mast sources Sediment/Shoreline Stabilization NO Is wetland associated with surface water? (if no, stop), Perennial or intermittent **Characteristics of Stream Description of Bank** Bank present y n Elevation change present y n Bank vegetated High seasonal flows y n Bank eroded уn Channelized flow y n

Steep bank

Stabilized Bank

y n

Yes

Open water fetch

Function Present

Wildlife Habitat Existing Critical Habitat y n	Type: Principal Function
Critical Habitat Features y n	Specific Features:
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources n	Connectivity Wildlife Corridor (through or adjacent) y n Wetland connectivity Upland connectivity Strengths of Upland Habitat:
Cover on Function Present on Present	B Mixed Pavest.
Vegetated Buffer Type: Twest (les) Width: 0-2 Buffer stream or wetland n Does buffer provide shade n Does buffer adequately safeguard wetland Wetland Values Recreational Value Parking available Watercraft access	Activities that adversely affect wildlife function: 60% Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other: Noud directly adjacent to san Side of wellard leading to he Restoration Stabilization Potential
Fishing available Hunting permitted Walking/biking trails Value H M	Present On Rem Sand p. F.
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value Educational/Scientific Value y in n H	Type:
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage y in y i	westand badered by would and sand pit.

Town of Fremont Inventory Func	tional/Value Assessment D	ata Form
Wetland ID: 34 * Size: 6 Classification: P POS/SSI/RMI	Date: 8/37 FAerial Photograph #: 11-2	WEI Project # 06-076NH
Wetland Functions		
Groundwater Recharge Discharge Geology Restrictive layer present Subsoil type: Sand + grave Other geologic features: Function Present (2) n	Hydrology Groundwater relationship presen Variable water levels observed Springs or seeps observed	n n
Floodflow Alteration Watershed Information Land cover in catchment area? Watershed position Other catchment storage Watercourse associated Contains hydric A soils The soil of the storage of the storag	Constricted outlet High degree of impervious surfaces in wetland watershed	Yn (Yes) No woderate slopes ow (
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition y n Vegetation Herbaceous vegetation Dense vegetation Function Present	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention	y (a) y (b) y (c) n n Yes No
Nutrient Removal/Retention Transforma Hydrology Open water present Slow moving water Nutrients upslope Function Present Yn	Transformers Organic soils Aquatic vegetation Abundant vegetation	On y O On Yes No
Production Export Vegetation Density Interspersion Diversity Food source Function Present Production Export H M L H M L Food source Function Present	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	y (1) y (2) y (3) n (3) n (4) Yes No
Sediment/Shoreline Stabilization Is wetland associated with surface water? Characteristics of Stream Elevation change present y n High seasonal flows y n Channelized flow y n Open water fetch y n Function Present y n	if no, stop), Perennial or intermitted Description of Bank Bank present Bank vegetated Bank eroded Steep bank Stabilized Bank	y n y n y n y n y n y n y n Yes

Wetland ID: 34.		
Wildlife Habitat Existing Critical Habitat y n Typ	e:	Principal Function
Critical Habitat Features yn	Specific Features:	
Aduatic insect habitat Amphibian habitat Fisheries habitat Cavity trees	Connectivity Wildlife Corridor (through or adjace) Wetland connectivity Upland connectivity	n n On On
Food sources n Cover n	Strengths of Upland Habitat:	
Function Present ()		Yes No
Vegetated Buffer Type: Width: 500 Buffer stream or wetland on Does buffer provide shad on Does buffer adequately safeguard wetland on the wetland of the wet	Habitat Degradation Percentage of wetland buffer with Activities that adversely affect w Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:	ildlife function: 0/6
Wetland Values		
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails	Restoration Stabilization Potenty Restoration area size: H20 Degradation Present	<u>itial</u>
Value HM1		уш
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value Vn n H M I	Invasive Species Present:	y n
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage y n y n y n y n y n Historic sites Francisco of the story of	Comments/Notes lots of tra Land Sur Welland	ails in Carsonahin romating this

	nventory Func	tional/Value Assessment Da	ata Foi	rm	
Wetland ID: 35	Size: 28	Date: 8(07	WEI	Project # 06	-076NH
Classification: PEM	OIE	Aerial Photograph #:	6		
Wetland Function	<u>ns</u>				
Groundwater Recharg	Discharge			Principal i	Function
Geology		Hydrology	_		
Restrictive layer present		Groundwater relationship presen	t 🕎 n		
_	d + grave	Variable water levels observed	\bigcirc n		
		28prings or seeps observed	y n		
Function Present yn	ESILENS	. Contains only inlet or outlet	(Y) n	Yes	No
Floodflow Alteration	-				
Watershed Information	Parest/R	Topographic Information Topography of watershed:	عاليد	to M	oderate slope 5
Watershed position	HML	Topography of watershed:		wi	M Same 5 + exp s los
Other catchment storage	IIW	Topography of wetland: Constricted outlet	(C)	واستنا	oderate slopes the save steeps log in 12 te 107
Watercourse associated	X "	High degree of impervious	W ⁿ	mou	W ILLE TO I
Contains hydric A soils	λ'' _n	surfaces in wetland watershed	Ø.	m 110	estside.
Function Present	8"	Provides downstream protection	(A)		isia.
	.	riovides dovinsaledin protection	" ك		140
Sediment/Toxicant/Path Soils	hogen Retention	C.42' 6 11 1 1			
	(D).	Setting & Hydrology	\sim		
Organic Soils		Upstream sources of pollution	Cy/n		
Broad boundary transition Vegetation	ii y 🕒	Erosion/sedimentation observed	y		
Herbaceous vegetation		Diffuse flow/slow moving water	(Y)n		
Dense vegetation	\(\sigma_n^n\)	Does wetland flood	CX.		
Function Present	n n	Long water retention		Yes	No
N () ()					
Nutrient Removal/Rete Hydrology	ntion Transforma	tion Transformers			
Open water present	$\sqrt{\nabla}$ n	Organic soils	Ø n		
Slow moving water	\mathcal{S}_{0}	Aquatic vegetation	W _n		
Nutrients upslope	70 n	Abundant vegetation	\mathcal{S}_{n}^{n}		
Function Present	y n		٠	(Yes)	No
Production Export					
Vegetation		Export			
Density	(HDM L	Detritus	(V)n		
Interspersion	HM	Aquatic plants	الركوني المركوني		
Diversity	H(M)L	Berry producing shrubs	\mathcal{L}_{n}^{n}		
Food source	Øn.	Nectar sources	XX."	_	
Function Present	yn n	Seed/mast sources	y	Yes	No
Sediment/Shoreline Sta	hilization				
Is wetland associated wit		(if no, stop), Perennial or intermitt	ent f	VO.	
Characteristics of Stream		Description of Bank	•	_	
Elevation change present	t y n	Bank present	y n		
High seasonal flows	y n	Bank vegetated	y n		
Channelized flow	y n	Bank eroded	y n		
Open water fetch	y n	Steep bank	уn		
		Stabilized Bank	уn		
Function Present	y n		="	Yes	(No)

Wetland ID: 33.	
Wildlife Habitat Existing Critical Habita n Ty	pe: Secretive march Principal Function
Critical Habitat Features yn	Specific Features: Blandigildabitat.
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Function Present yn yn yn yn yn yn yn	Connectivity Wildlife Corridor (through or adjacent) on Wetland connectivity Upland connectivity Upland connectivity Strengths of Upland Habitat: Fuest in Carsewahn Land with Truil System. Yes No
Vegetated Buffer Type: Twest / Nes. Width: 0-50 Buffer stream or wetland (v)n Does buffer provide shade (v)n Does buffer adequately safeguard wetland (v)n	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:
Wetland Values	
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value Recreational Value yn yn yn HM	
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value Yn n M	Invasive Species Present: (yn Type: 5 mall amont of purple looses this L Near Library
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage Un n yn n n HM	Longe open water marsh in Center of Jam with bigh recreatin Value.

	Town of Fremont In	ventory Functi	ional/Value Assessment Da	ta For	m	
	Wetland ID: 36 Classification: PFD5	Size: 8.3 /EMI/UBH	Date: 9107 Aerial Photograph #:		Project # 06-	076NH
	Wetland Function	<u>ns</u>	-			
	Groundwate Recharge	Discharge	Hydrology		Principal F	unction
~	Restrictive layer present Subsoil type: 5 cm. Other geologic features: Function Present	over aguite	Groundwater relationship present Variable water levels observed Springs or seeps observed Contains only inlet or outlet	n n y y n	Yes	No
	Floodflow Alteration Watershed Information Land cover in catchment Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present	area? Res wood M L On: y(f)	Topographic Information Topography of watershed: Topography of wetland: Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection	Sn On	becar but gr	dam.
	Sediment/Toxicant/Pat Soils Organic Soils Broad boundary transition Vegetation Herbaceous vegetation Dense vegetation Function Present	On y fo	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention		Yes	No
	Nutrient Removal/Rete Hydrology Open water present Slow moving water Nutrients upslope Function Present	n n n n n	Transformers Organic soils Aquatic vegetation Abundant vegetation	On On n	(Yes)	No
	Production Export Vegetation Density Interspersion Diversity Food source Function Present	HML HML HMC On On	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	On On you you)) 	No
	Sediment/Shoreline States wetland associated with Characteristics of Stree Elevation change presenting seasonal flows Channelized flow Open water fetch	ith surface water? am it y n y n y n y n y n	(if no, stop), Perennial or intermitt Description of Bank Bank present Bank vegetated Bank eroded Steep bank Stabilized Bank	ent y n y n y n y n y n y n		No
	Function Present	y n			1 03	1 170/

C

Wetland ID: 36		
Wildlife Habitat Existing Critical Habitat y Type	e: F	Principal Function
Critical Habitat Features y	Specific Features:	
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Function Present	Connectivity Wildlife Corridor (through or adjacent) yn Wetland connectivity Upland connectivity Strengths of Upland Habitat: Not too Strug	due to Developu
Vegetated Buffer Type: Wood and Width: 50-100 Buffer stream or wetland n Does buffer provide shad n Does buffer adequately safeguard wetland y Wetland Values	Habitat Degradation Percentage of wetland buffer with encroach Activities that adversely affect wildlife functions are structure(s) that obstruct	nment: ction: 70% NR Bed.
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value Recreational Value On On On On On On On On On O	Restoration Stabilization Potential y Restoration area size: H2O Degradation Present Y n	ter, Fren moft?
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value Educational/Scientific Value y in y in n H M	Invasive Species Present: (yn Type: puple loosestice.	
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage y n y n H M L	Comments/Notes Degraded (about the seaver pand industrial (andared adjacent cuber yord.

Wetland ID: 37. Classification: PSSI, PFOLE, PEW	X Size: 60 EMIE b.	Date: 9/07 Aerial Photograph #: 11-24	WEI Project # 06-076NH
Wetland Function			
Groundwater Rechar	geDischarge		Principal Function
Geology Restrictive layer presen		Hydrology Groundwater relationship preser	_
Subsoil type: Same	1+ Grave	Variable water levels observed	
Other geologic features		, 8	On On
Function Present	n	Contains only inlet or outlet	y(T) (Yes) No
Floodflow Alteration	Res/Fues	·k	
Watershed Information Land cover in catchmer			- 41 - to Man - 101 - 10 5 1000
		Topography of watershed:	entle to moderate slope
Watershed position Other catchment storage	H M(L)	Topography of wetland:	On beaver dams.
Watercourse associated		Constricted outlet 455 High degree of impervious	On beaver dams.
Contains hydric A soils		surfaces in wetland watershed	an wath of welland
Function Present	(Dn	Provides downstream protection	Van Van
	<u> </u>	100 Year Floor	dolain a ssociated with.
Sediment/Toxicant/Pa	thogen Retention	1	On Nath of welland. On YES No afed cuth. Exeler River
Soils	6	Setting & Hydrology	
Organic Soils	⊘ h	Upstream sources of pollution	Øn .
Broad boundary transiti	o i(y) n	Erosion/sedimentation observed	
Vegetation	<u> </u>	Diffuse flow/slow moving water	· 👰n
Herbaceous vegetation	∠ Z ⁿ	Does wetland flood	⊘ n
Dense vegetation Function Present	∑S ⁿ	Long water retention	On Contract of the Contract of
runction rresent	""		Yes No
Nutrient Removal/Ret	ention Transforr	nation	
Hydrology	A	Transformers	-
Open water present	n	Organic soils	n
Slow moving water	n .	Aquatic vegetation	Q n
Nutrients upslope Function Present		Abundant vegetation	
runction rresent	(4)		(Yes) No
Production Export			
Vegetation		Export	
Density	HDM L	Detritus	Øn
Interspersion	CHOM L	Aquatic plants	<i>∽</i>
Diversity	(H)M L	Berry producing shrubs	∽ n
Food source	∑ n	Nectar sources	⊘ n
Function Present	(Y)	Seed/mast sources	yn (Yes) No
Sediment/Shoreline Sta	abilization		
ls wetland associated wi	th surface water?	(if no, stop), Perennial or intermitt	ent Exeler River + Tribo
Characteristics of Stre		Description of Bank	_
Elevation change presen	t 📿 n	Bank present	Ø n
High seasonal flows	⊘ n	Bank vegetated	∠ n
Channelized flow	ÇŸ)n	Bank eroded	(√) n
^ · · · · · · · · · · · · · · · · · · ·			
Open water fetch	y h	Steep bank Stabilized Bank	P

Wetland ID: 37,	
Wildlife Habitat Existing Critical Habitaty n	Type: Blanding & Tuffe Principal Function Brook Eloaler?
Critical Habitat Feature n	Specific Features: Deep/shall av Monsh open water.
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Function Present	Connectivity Wildlife Corridor (through or adjacent On Wetland connectivity Upland connectivity Strengths of Upland Habitat: Diverse upland babitat. with large Itay helds and Mathe Parests. Yes No
Vegetated Buffer Type: Woods + Kell-Width Buffer stream or wetland on Does buffer provide shade on Does buffer adequately safeguard wetland on In most places. Wetland Values Recreational Value Parking available Watercraft access	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other: Moshof O; shubance is Ball fields + paulity Loh on Natheash side. Restoration Stabilization Potential y n Restoration area size:
Fishing available Hunting permitted Walking/biking trails ATVTVIII Value	On? H20 Degradation On Present On RR Bed moff and 607+ Paling Lot
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	Invasive Species Present: On yn Type: Purple loc sestife.
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value	Comments/Notes Large, diverse River Hoodplan On westand with excellent On wildlife habitat, On HM L

West Environmental, Inc. Town of Fremont Inventory Fu	nctional/Value Assessment D	ata Form
Wetland ID: 38. Size: 3 Classification: PEMI/SSIE	Date: 8/07 Aerial Photograph #: 10-	
Wetland Functions		
Groundwater Recharge/Discharge		Principal Function
Geology Restrictive layer present (y) n Subsoil type: Grade (ledge Other geologic features: Function Present y n	Hydrology Groundwater relationship preset Variable water levels observed Springs or seeps observed Contains only inlet or outlet	·
Floodflow Alteration Watershed Information Land cover in catchment area? Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present	Topographic Information Topography of watershed: Topography of wetland: Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection	Moderate slopes entre slope to Flat. Øn Øn Yes No
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition on Vegetation Herbaceous vegetation Dense vegetation Function Present	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention	
Nutrient Removal/Retention Transform Hydrology Open water present Slow moving water Nutrients upslope Function Present Nutrients upslope Function Present	Transformers	y n y D O n (Yes) No
Production Export Vegetation Density Interspersion Diversity Food source Function Present N M L H M L H M L Food source Function Present	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	y n y n y n y n Y n Yes No
Sediment/Shoreline Stabilization Is wetland associated with surface water? Characteristics of Stream Elevation change present on High seasonal flows Channelized flow	(if no, stop) Perennial or intermite Description of Bank Bank present Bank vegetated Bank eroded	tent Y25
Open water fetch Function Present	Steep bank Stabilized Bank	y n y n Yes No

Wetland ID: 38	
Wildlife Habitat Existing Critical Habitat yn Ty	/pe: Principal Function
Critical Habitat Features yn	Specific Features:
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Piversity Features In property for the property of the proper	Connectivity Wildlife Corridor (through or adjacent y) n Wetland connectivity Upland connectivity Strengths of Upland Habitat: Matrie Farest an Sauth Side. Yes No
Function Present (y)n	Yes No
Vegetated Buffer Type: Toest Scub Width: 25-16 Buffer stream or wetland On Does buffer provide shade On Does buffer adequately safeguard wetland yn?	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Yn
Wetland Values	Launs from hauses on Nathside drawn into wetland.
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails yn yn yn yn	Restoration Stabilization Potential y n Restoration area size: H20 Degradation Present y n
Value H M Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value H M	Invasive Species Present: y n Type:
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage y fi y n y n y n H M	Small marsh/wet meadow helps pwfcct damen stream Refer River.

Wetland ID: 39 Classification: PFOI PSSI/I Wetland Function	EMIHA	Date: 9107 Aerial Photograph #: 9-2	WEI Project # 06-076NH
Groundwater Rechar	geDischarge		Principal Function
Geology		Hydrology	rincipal runction
Restrictive layer presen	it 🕜n 🚬 🔠	Groundwater relationship pre-	sent (v)n
Subsoil type:	nel/ledge	. Variable water levels observe	
Other geologic features	: 0	Springs or seeps observed	Ön –
Function Present	n	Contains only inlet or outlet	Yes No
Floodflow Alteration	0 1-	t	_
Watershed Information	on Iles/Faves	K Topographic Information	1 (() 4
Land cover in catchmer	it area?	Topography of watershed:	Moderate to Gentle: Dit + manded to flat On beaver dams. On North of wetter
Watershed position	HM L	Topography of wetland:	7178 Marchad to Flat
Other catchment storage		Constricted outlet	On beaver dams.
Watercourse associated		High degree of impervious	a sight of sight
Contains hydric A soils Function Present	O ⁿ	surfaces in wetland watershed	On Narn of weren
ranction rresent	Cy)n	Provides downstream protecti	on On (Yes) No
Sediment/Toxicant/Pa	thogen Retention		
Soils	()	Setting & Hydrology	
Organic Soils	n	Upstream sources of pollution	
Broad boundary transiti Vegetation	o y y n	Erosion/sedimentation observe	
Herbaceous vegetation	6	Diffuse flow/slow moving wat	er (y) n
Dense vegetation	% "	Does wetland flood	(y)n
Function Present	, "	Long water retention	(y)n
			Yes No
Nutrient Removal/Ret	ention Transform		
Hydrology		Transformers	
Open water present	25 ⁿ	Organic soils	(y)h
Slow moving water Nutrients upslope	\(\) "	Aquatic vegetation	Ç i ∕n
Function Present	V)n	Abundant vegetation	Yes No
D 1 11 7	O		140
Production Export			
Vegetation Density	(D)	Export	G
Interspersion		Detritus	⊘ n
Diversity		Aquatic plants	n
Food source	Co. L	Berry producing shrubs	y)n
Function Present	⊘ "	Nectar sources Seed/mast sources	n (Vn Vac No
Sadimont/Shousling St		Sources	(y)n (Yes) No
Sediment/Shoreline Starts wetland associated with the second seco		(if no, stop Perennial interm	ittent 1105
Characteristics of Stre		Description of Bank	
Elevation change presen		Bank present	(V)n
ligh seasonal flows	(3)n	Bank vegetated	ζν _n
			<u>""</u>
Channelized flow	⊘ n	Bank eroded	v(n)

Wetland ID: 39	
Wildlife Habitat Existing Critical Habitaty n	Type: Blanding, Turtle Principal Function Was taf.
Critical Habitat Feature n	Specific Features: Deep 1 Shalker march.
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover	Connectivity Wildlife Corridor (through or adjacent on Wetland connectivity on Upland connectivity on Strengths of Upland Habitat:
	Thick Coniferous Rosest.
Function Present On	Yes No
Vegetated Buffer Type: Width: Buffer stream or wetland on Does buffer provide shade on Does buffer adequately safeguard wetland on Wetland Values	Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other: Most of wetland is profected by adequate buffer.
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value Parking available y V	Restoration Stabilization Potential y n Restoration area size: H20 Degradation Present y n
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value H	Invasive Species Present: yn Type:
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage y y Color y H H H H H H H H H H H H	Large wetland transituing to wooded Swamp with bearn pand.

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form				
Wetland ID: 40 Size: 12 Classification: PFOI/5SIE	Date: 8(87 Aerial Photograph #: 8-26	WEI Project # 06-076NH		
Wetland Functions				
Groundwater Recharge/Discharge Geology Restrictive layer present Subsoil type: Other geologic features: Function Present y n	Hydrology Groundwater relationship present Variable water levels observed Springs or seeps observed Contains only inlet or outlet	Principal Function y n y n y n y n y n y n Y n Y		
Watershed Information Land cover in catchment area? Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present Watershed Information HM L Cover in catchment area? HM L Vn	Topographic Information Topography of watershed: Topography of wetland: Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection	oderate s lo pes J. On On Yes No		
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition yn Vegetation Herbaceous vegetation Dense vegetation Function Present Soils n n n n	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention	n On On On On Yes No		
Nutrient Removal/Retention Transforma Hydrology Open water present Slow moving water Nutrients upslope Function Present Nutrients upslope Function Present	Transformers Organic soils Aquatic vegetation Abundant vegetation	On yn On Yes No		
Production Export Vegetation Density Interspersion Diversity Food source Function Present HML HML HML HML HML HML HML HM	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	y G n Yes No		
Sediment/Shoreline Stabilization Is wetland associated with surface water? (Characteristics of Stream Elevation change present on High seasonal flows on Channelized flow open water fetch open water fetch on Present of Inc. Inc. Inc. Inc. Inc. Inc. Inc. Inc.	if no, stop), Perennial or intermitte Description of Bank Bank present Bank vegetated Bank eroded Steep bank Stabilized Bank	nt Y25		

Wetland ID: (O	
Wildlife Habitat Existing Critical Habitat y	Type: Principal Function
Critical Habitat Features yn	Specific Features:
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover	Connectivity Wildlife Corridor (through or adjacent) (y) n Wetland connectivity Upland connectivity Strengths of Upland Habitat: Swonded by development Yes No
Function Present (y)n	
Vegetated Buffer Type: Five St/Cleaved (am Type: Five St/Cleaved (am Width: 75 Buffer stream or wetland (2) n Does buffer provide shade (2) n Does buffer adequately safeguard wetland (n)	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:
Wetland Values	
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails	Restoration Stabilization Potential y fin Restoration area size: n Present Present
Value H	Mi Adjacent pand disty trubid
	Invasive Species Present: (yn of we fla
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage (2) (2) (3) (4) (5) (7) (7) (7) (7) (8) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	Degaded Parested wellard Degaded Parested w

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form				
Wetland ID: 4 Size: 88 Classification: PSSI/EMIEB	Date: Aerial Photograph #: \(\cdot \) \(\cdot 2 \)	WEI Project # 06-076NH + 9-24		
Wetland Functions				
Groundwater Recharge/Discharge		Principal Function		
Geology Restrictive layer present Subsoil type: Sand rame Other geologic features: Organizer Function Present (y) n	Hydrology Groundwater relationship preser Variable water levels observed Springs or seeps observed Contains only inlet or outlet			
Floodflow Alteration Watershed Information Land cover in catchment area? Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present One of the catchment area? For example of the catchment area? For example of the catchment area? On the catchment storage On the catchment area? On the catc	Topographic Information Topography of watershed: Topography of wetland: Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection			
Sediment/Toxicant/Pathogen Retention Soils	Setting & Hydrology			
Organic Soils Broad boundary transition on Vegetation Herbaceous vegetation Dense vegetation Function Present	Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention			
Nutrient Removal/Retention Transform	ation			
Hydrology Open water present Slow moving water Nutrients upslope Function Present n	Transformers Organic soils Aquatic vegetation Abundant vegetation	On n No		
Production Export Vegetation Density Interspersion Diversity Food source Function Present Function Export HM L HM L HM L For M L Fronce Function Present Function Export HM L Fronce Function Export HM L Fronce Function Function Export Function Function Function Function Function Function Function Function Function Function Function Function Function Function Function Function Function Function Function Func	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	n On On n No		
Characteristics of Stream Elevation change present on	(if no, stop), Perennial or intermitt Description of Bank Bank present	ent yes (over end		
High seasonal flows Channelized flow Open water fetch	Bank vegetated Bank eroded Steep bank Stabilized Bank	On in places.		
Function Present (yn	Staulized Dalik	Yes No		

Wetland ID:	
Wildlife Habitat Existing Critical Habitaton	Type: Secretive Principal Function
Critical Habitat Feature n	Blandings Turble. Specific Features: large Shallow marsh. Connectivity deep marsh pochets.
Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover	Connectivity Wildlife Corridor (through or adjacent) On Wetland connectivity Upland connectivity Strengths of Upland Habitat: Diverse Fevest and Pasture land.
Function Present (y)n	Ved No
Vegetated Buffer Type: Pas he wol wow Width: 50 = Buffer stream or wetland On Does buffer provide shade On Does buffer adequately safeguard wetland On Wetland Values	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other: Pashue in welland calle goont In mersh.
Educational/Scientific Value	Restoration area size: possible associated but Pam to the H20 Degradation
Unique habitats/plant species Diverse wildlife habitat Parking/access Value H	Type: phagmites purple loosestrife BL Eugea Glossy level buckthur
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value Uniqueness/Heritage y (iniqueness/Heritage y (iniqueness/Heritage y (iniqueness/Heritage y (iniqueness/Heritage y (iniqueness/Heritage y (iniqueness/Heritage) y	Sprice swamp. which Feeds tributen

Town of Fremont Inventory Func	tional/Value Assessment Data	Form
Wetland ID: 42 Size: 277 Classification: PROI/SSI/EMIE	Date: 8(07) Berial Photograph #: 7-21	VEI Project # 06-076NH 8-21 9-21
Wetland Functions		,
Groundwater Recharge/Discharge Geology Restrictive layer present y (1) Subsoil type: Sand + grave Other geologic features: Over capufe Function Present (2)	Hydrology Groundwater relationship present Variable water levels observed Springs or seeps observed Contains only inlet or outlet	Principal Function n n n N n N N N N N N N N N N N N N
Floodflow Alteration Watershed Information Land cover in catchment area? Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present Floodflow Alteration Watershed Information H M L On the Contains the Contains hydric A soils Function Present Floodflow Alteration Watershed Information Function Function Function Function Function Function Floodflow Alteration Function Function Function Function Function Funct	Topography of wetland: Flat Constricted outlet High degree of impervious	Dr beweidans.
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition on Vegetation Herbaceous vegetation Dense vegetation Function Present Soils In	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed	Dn Res.+ Fam. On On On (Yes) No
Nutrient Removal/Retention Transforma Hydrology Open water present Slow moving water Nutrients upslope Function Present Provided to the state of th	Transformers Organic soils Aquatic vegetation Abundant vegetation	n On On Yes No
Production Export Vegetation Density Interspersion Diversity Food source Function Present PM L HM L HM L FOM L FOM D	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	on On On On On Yes No
Is wetland associated with surface water? Characteristics of Stream Elevation change present on High seasonal flows Channelized flow Open water fetch	Description of Bank Bank present Bank vegetated Bank eroded Steep bank Stabilized Bank	Exefer River
Function Present (y) n	<u></u>	(Yes) No

Wetland ID: 42	
Wildlife Habitat Existing Critical Habitatyn	Type: Blanding & Turlle Principal Function
Critical Habitat Features n	Specific Features: Slow maring water in Connectivity Scrib shus marsh.
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Function Present n n n n n n n n n n n n n n n n n n	Connectivity Wildlife Corridor (through or adjacent On Wetland connectivity Upland connectivity Upland connectivity Strengths of Upland Habitat: Variety of Rwest types with some Nay Welds Yes No
Vegetated Buffer Type: Fuest Rields Width Buffer stream or wetland on Does buffer provide shade on Does buffer adequately safeguard wetland on	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat
Wetland Values	B Majerity of we hard banduny is protected by vooded buffer
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails	y n y n Restoration area size: y n ? H20 Degradation y n Present y n
Value Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	H L Invasive Species Present: y n On - Type: y n H L
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value	Comments/Notes 2nd Largest we Hand in French. Prodplain of Exeter River On possible. On possible.

West Environmen Town of Fremont		tional/Value Assessment D	ata Fo	rm	
Classification: P 5	SI/3 EMIH PUBIJ.	Aerial Photograph #: [O-	WEI 2 I	Project # 00	6-076NH
Groundwater Rechar	ge/Discharge			Principal	Function
Function Present /v	dt grewel 5: over agrifa	Hydrology Groundwater relationship present Variable water levels observed Springs or seeps observed Contains only inlet or outlet	y (i)		, 12 p
Floodflow Alteration					
Function Present	n N	Topographic Information Topography of watershed: Topography of wetland: Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection	y n	5 lope beave	dams.
Sediment/Toxicant/Pa	thogen Retention				
Soils Organic Soils Broad boundary transit Vegetation Herbaceous vegetation Dense vegetation Function Present		Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention		- RY	2 Beö l.
Nutrient Demoval/Det	tontion Transfermen	43			
Nutrient Removal/Ret Hydrology Open water present Slow moving water Nutrients upslope Function Present	n n n n	Transformers Organic soils Aquatic vegetation Abundant vegetation	(5) n n n	Yes	No
Production Export					
Vegetation Density Interspersion Diversity Food source Function Present	EM L EM L EM L On On	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources		Yes	No
Sediment/Shoreline St Is wetland associated w Characteristics of Stre Elevation change presen High seasonal flows Channelized flow Open water fetch	ith surface water? (Description of Bank Bank present Bank vegetated Bank eroded Steep bank Stabilized Bank	ent y	125.	
Function Present	◯√ n		٠.	Yes	No

Wetland ID: 苯션	
Wildlife Habitat Existing Critical Habitaty n	Type: Blanding's Turtle Principal Function Observed.
Critical Habitat Features yn	Specific Features: deep marsh.
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover	Connectivity Wildlife Corridor (through or adjacent of n Wetland connectivity Upland connectivity Strengths of Upland Habitat:
Function Present n	Mixed Fines t. Old RN bed used as ATV tuil
Vegetated Buffer Type: Forest . Width Buffer stream or wetland on Does buffer provide shade on Does buffer adequately safeguard wetland on Wetland Values	Habitat Degradation Percentage of wetland buffer with encroachment: Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other: ATV Juil causes Same with evosion line wellad
Recreational Value Parking available Watercraft access Fishing available	Restoration Stabilization Potential y n Restoration area size:
Hunting permitted Walking/biking trails	On H20 Degradation Present niver. On fun unoffor H M): N N bed.
Value	HOL . No hed.
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	Invasive Species Present: (jn Type: puple looses frace/wina. HM L
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value	Bog like Habitat with On Wigh diversity Blandings Timble obsend. On HML

Town of Fremont Inventory Functional/Value Assessment Data Form 9/07 Wetland ID: 共代 Date: WEI Project # 06-076NH Size: 11.1 Classification: PEMIE; PFOI/SSIE; PFOI/4; PUEHS Aerial Photograph #: 24933 -1-22 Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present y(n) Groundwater relationship present (v) n Subsoil type: grevelly lozmy sand Variable water levels observed Other geologic features: dreining of Springs or seeps observed Function Present (y)n Contains only inlet or outlet No Floodflow Alteration Watershed Information residential/ **Topographic Information** Land cover in catchment area? forest Edizcent moderate stopes Topography of watershed: relatively flat Watershed position HM(L)Topography of wetland: Other catchment storage (y)n Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection Yes Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y(n) Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** No **Nutrient Removal/Retention Transformation** Hydrology **Transformers** Organic soils Open water present Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present** Yes **Production Export** Vegetation **Export** (H)M L Density Detritus (H)MLInterspersion Aquatic plants H(M)L Diversity Berry producing shrubs Food source y In (winter-Nectar sources Function Present Seed/mast sources Yes Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop), Perennial or intermittent **Characteristics of Stream** Description of Bank Elevation change present \sqrt{n} Bank present High seasonal flows Bank vegetated Channelized flow Bank eroded Open water fetch Steep bank nearby moderate slopes

Stabilized Bank

West Environmental, Inc.

Function Present

	•	
Wetland ID: # A4		
Wildlife Habitat Existing Critical Habitat y n Ty	pe: Scrob-shrule	Principal Function
Critical Habitat Features yn	Specific Features: Cover	
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover	Connectivity Wildlife Corridor (through or adjacent) y Wetland connectivity Upland connectivity Strengths of Upland Habitat:	In W/ Exeler River
Function Present yn		Yes No
Vegetated Buffer Type: residential forest Width: 50' Buffer stream or wetland vn Does buffer provide shade vn Does buffer adequately safeguard wetland vn	Habitat Degradation Percentage of wetland buffer with end Activities that adversely affect wildliff Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:	
Wetland Values		
Recreational Value Parking available Watercraft access Fishing available Hunting permitted does stand yn Walking/biking trails	H2O Degradation	eplace elevated culvert t road crossing to estore potential fish passage) n potential road Salt run-off
Value H M	D	SEL 100-041
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value (y) n	Invasive Species Present: y Type:	(n)
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or	Comments/Notes	

endangered species Archaeological sites Stonewalls present Historic sites

Ecological health/vigor

Value

potential tossock sedge and sported toutle affinity

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form Date: 9 67 Wetland ID: 井45 Size: 12.8 WEI Project # 06-076NH Classification: PSSILEMIE Aerial Photograph #: 24933 - 1 - 22 Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present y(n)Groundwater relationship present Subsoil type: much pezt Variable water levels observed Other geologic features: Thick Springs or seeps observed Function Present (y)n Contains only inlet or outlet No Floodflow Alteration reclaimed Watershed Information graved Pit forest Topographic Information flat Land cover in catchment area? Topography of watershed: Watershed position Topography of wetland: Other catchment storage (y)n Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection Yes No Sediment/Toxicant/Pathogen Retention Setting & Hydrology Soils Potential road ran-off Organic Soils Upstream sources of pollution Broad boundary transition Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** Yes No **Nutrient Removal/Retention Transformation Transformers** Hydrology Organic soils Open water present Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present** Yes No **Production Export** Vegetation Export Density Detritus Interspersion Aquatic plants Diversity Berry producing shrubs Food source (+ ro = = Nectar sources **Function Present** Seed/mast sources Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop). Perennial or intermittent

Characteristics of Stream

Elevation change present High seasonal flows Channelized flow Open water fetch

Function Present

Description of Bank Bank present Bank vegetated Bank eroded Steep bank Stabilized Bank

No

Wildlife Habitat

Existing Critical Habitat y n

Type: Scrub- Shrub

Principal Function

Critical Habitat Features y) n

Specific Features:

COVEC

Diversity Features

Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover

Connectivity

Wildlife Corridor (through or adjacent) y n Wetland connectivity Upland connectivity

Strengths of Upland Habitat:

Vegetated Buffer

Function Present

Buffer stream or wetland

Does buffer provide shade y n

Type: residential forest Width: 50t

Habitat Degradation

Percentage of wetland buffer with encroachment: 75% Activities that adversely affect wildlife function:

Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:

yn residential desologment,
yn nearly road, reclamed

yn adjacent repenser

zone

In regretielly by development

Wetland Values

Does buffer adequately

safeguard wetland

Recreational Value

Parking available Watercraft access (1,e, +6)
Fishing available 20005 Fishing available Hunting permitted 2012(ent Walking/biking trails

Restoration Stabilization Potential

y(n)

H2O Degradation

Restoration area size:

Value

(H)ML

Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value

Invasive Species Present:

Type:

Present

Uniqueness/Heritage

Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value

Comments/Notes

potential tirtle habitet

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form Date: 9 2667 WEI Project # 06-076NH Wetland ID: 井石 Size: 35.8 Classification: PFOI 551 E/EMIEB Aerial Photograph #: 29433-1-22 Wetland Functions Groundwater Recharge/Discharge **Principal Function** Hydrology Geology Restrictive layer present y(n) Groundwater relationship present pezt Subsoil type: Variable water levels observed Other geologic features: Hick Springs or seeps observed Function Present (y)n Contains only inlet or outlet Floodflow Alteration Watershed Information reclaimed **Topographic Information** Land cover in catchment area? Forest Topography of watershed: Watershed position HM(L)Topography of wetland: Other catchment storage () n Constricted outlet High degree of impervious Watercourse associated surfaces in wetland watershed Contains hydric A soils **Function Present** Provides downstream protection Yes No Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water y) n Does wetland flood Herbaceous vegetation Dense vegetation Long water retention Yes **Function Present** No **Nutrient Removal/Retention Transformation** Hydrology **Transformers** Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present** Yes No **Production Export Export** Vegetation Detritus Density Interspersion Aquatic plants Diversity Berry producing shrubs Nectar sources Food source **Function Present** Seed/mast sources No Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop), Perennial or intermittent Description of Bank **Characteristics of Stream**

Bank present

Bank eroded

Steep bank Stabilized Bank

Bank vegetated

No

Elevation change present

High seasonal flows

Channelized flow

Open water fetch

Function Present

Historic sites

Value

Ecological health/vigor

H(M)L

Town of Fremont Inventory Functional/Value Assessment Data Form Wetland ID: 井子丁 Size: 13,6 WEI Project # 06-076NH Classification: PSSIEL/PFOIEL Aerial Photograph #: 24933-2-25 Wetland Functions Groundwater Recharge/Discharge Principal Function Geology Hydrology Restrictive layer present Groundwater relationship present (pest Subsoil type: Variable water levels observed Other geologic features: thick 6 / 31 er Springs or seeps observed Function Present (y)n Contains only inlet or outlet Yes Floodflow Alteration Watershed Information **Topographic Information** Land cover in catchment area? forest Topography of watershed: Watershed position Topography of wetland: Other catchment storage Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Long water retention Dense vegetation **Function Present** Yes **Nutrient Removal/Retention Transformation Transformers** Hydrology bezuer Organic soils Open water present Aguatic vegetation Slow moving water Nutrients upslope - Abundant vegetation **Function Present** Yes **Production Export** Vegetation **Export** Density **Detritus** Interspersion Aquatic plants Diversity Berry producing shrubs Food source Nectar sources Function Present Seed/mast sources Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop). Perennial or intermittent **Characteristics of Stream** Description of Bank Elevation change present y(n) Bank present High seasonal flows Bank vegetated Channelized flow Bank eroded Open water fetch Steep bank Stabilized Bank

No

West Environmental, Inc.

Function Present

y n

Wetland ID: #47 Wildlife Habitat Type: Sers-stris Existing Critical Habitat y h **Principal Function** Critical Habitat Features y Specific Features: Cover **Diversity Features** Connectivity Aquatic insect habitat Wildlife Corridor (through or adjacen Amphibian habitat Wetland connectivity Fisheries habitat Upland connectivity Cavity trees Food sources Strengths of Upland Habitat: Cover retrail **Function Present** Vegetated Buffer **Habitat Degradation** Width: \60⁴ Type: - Torested Percentage of wetland buffer with encroachment: Buffer stream or wetland Activities that adversely affect wildlife function: Does buffer provide shade y)n Existing structure(s) that obstruct Does buffer adequately animal movement safeguard wetland Significant disturbance Proximity to beaver, mink, or otter habitat Other:

Wetland Values

Recreational Value Restoration Stabilization Potential Parking available y(n) Watercraft access Restoration area size: Fishing available Hunting permitted **H2O** Degradation

Present

Comments/Notes

Walking/biking trails H M(L Value

Educational/Scientific Value **Invasive Species Present:** Unique habitats/plant species Diverse wildlife habitat Type: Parking/access Value ...

Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value



West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form Wetland ID: #48 Size: 14.7 Date: 5/2/07 WEII Classification: PSSI/EMIE 9 PFOSEb Aerial Photograph #: 24933-3-22 WEI Project # 06-076NH Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present y(n)Groundwater relationship present squiter proximity Subsoil type: Variable water levels observed Other geologic features: thick o later Springs or seeps observed Function Present (y)n Contains only inlet or outlet Floodflow Alteration Watershed Information reclaimed areas Topographic Information Land cover in catchment area? Pri Forest Topography of watershed: Watershed position HM(L) Topography of wetland: Other catchment storage (y)n nearby pond Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection No Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology **Organic Soils** Upstream sources of pollution Broad boundary transition y n Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present** Yes No Nutrient Removal/Retention Transformation Hydrology **Transformers** Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present** Yes Production Export Vegetation Export Density Detritus Interspersion Aquatic plants Diversity Berry producing shrubs Food source Nectar sources **Function Present** Seed/mast sources Sediment/Shoreline Stabilization Is wetland associated with surface water? (if no, stop). Perennial or intermittent Characteristics of Stream Description of Bank

Characteristics of Stream

Elevation change present yn
High seasonal flows yn
Channelized flow
Open water fetch

Function Present

Yn

Bank present
Bank vegetated
Bank eroded
Steep bank
Stabilized Bank

Yn

Yes

No

Wetland ID: 并48		
Wildlife Habitat Existing Critical Habitat yn	Type:	scrub (shrub Principal Function
Critical Habitat Features yn	Sį	pecific Features: cover; tussock sedae; voicitize nesting by turtles in reclaimed connectivity Vildlife Corridor (through or effectivity)
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover On y n y n y n y n y n y n y n	W U	connectivity Vildlife Corridor (through or adjacent) y n Vetland connectivity Ipland connectivity Vin Verengths of Upland Habitat: Very adjacent y n Very n Ve
Function Present (y)n		Pit Yes No
Vegetated Buffer Type: forcest residential Width: Buffer stream or wetland yn Does buffer provide shade yn Does buffer adequately safeguard wetland yn	SO PO A E ar Si Pi	labitat Degradation ercentage of wetland buffer with encroachment: 25% activities that adversely affect wildlife function: xisting structure(s) that obstruct nimal movement ignificant disturbance roximity to beaver, mink, or tter habitat yn historical evidence yn historical evidence
Wetland Values		
Recreational Value Parking available	<u>R</u>	testoration Stabilization Potential
Watercraft access Fishing available Hunting permitted Walking/biking trails		Restoration area size: 2-3 Ecres; replace wetland butter on south eastern permeter 120 Degradation Present y(n)
Fishing available Hunting permitted posted		Restoration area size: 2-3 Ecres replace wetland butter on south exister perimeter 120 Degradation
Fishing available Hunting permitted Walking/biking trails	у́п	Restoration area size: 2-3 Ecres replace wetland butter on south exister perimeter 120 Degradation

Town of Fremont Inventory Functional/Value Assessment Data Form

Wetland ID: \$\frac{\pi}{20}\$ Size: \$8 Classification: \$\PSIE PEWIE	Date: 5/2/07 Aerial Photograph #: 24933-	WEI Project # 06-076NH
Wetland Functions		
Groundwater Recharge/Discharge Geology Restrictive layer present y(n)	Hydrology Groundwater relationship present	Principal Function In proximity to equite
Subsoil type: pezt Other geologic features: thick of layer Function Present y in	Variable water levels observed Springs or seeps observed Contains only inlet or outlet	yn yn Yes No
Floodflow Alteration Watershed Information Land cover in catchment area? Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present Floodflow Alteration H M L yn yn yn yn	Topographic Information Topography of watershed: Topography of wetland: Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection	flat flat yn yn Yn Yes No
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition on Vegetation Herbaceous vegetation Dense vegetation Function Present Soils Organic So	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention	yn yn yn Yes No
Nutrient Removal/Retention Transform Hydrology Open water present Slow moving water Nutrients upslope Function Present	Transformers Organic soils Aquatic vegetation Abundant vegetation	yn Yes No
Production Export Vegetation Density Interspersion Diversity Food source Function Present Production Export HML HML FOOD FUNCTION FUNCTION FOOD FUNCTION FOOD FUNCTION FOOD FUNCTION FUNCTION FOOD FUNCTION FOOD FUNCTION FUNCTION FOOD FUNCTION FUNC	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	yn yn yn Yes No
Sediment/Shoreline Stabilization Is wetland associated with surface water? Characteristics of Stream Elevation change present yn High seasonal flows Channelized flow Open water fetch y n	Description of Bank Bank present Bank vegetated Bank eroded Steep bank	ent y n y n
Function Present y n	Stabilized Bank	y Yes No

Wetland ID: # 49	
Wildlife Habitat Existing Critical Habitatyn	Type: Scrub shrub Principal Function Deek emerger = marsh
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Function Present Vegetated Buffer Type: residential force Width Buffer stream or wetland yn Does buffer provide shade yn Does buffer adequately safeguard wetland yn	Specific Features: Cover tyssock seday efficient by Specific A Blanding is righted to associated heads Connectivity Wildlife Corridor (through or adjacent) y/n Wetland connectivity Upland connectivity Strengths of Upland Habitat: 200
Wetland Values Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value	Restoration Stabilization Potential y n y n Restoration area size: 5 = 2c - replant before y n H20 Degradation y n Present y n
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	Invasive Species Present: yn yn Type: yn HM L
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value	Comments/Notes (I) n The westerd is directly essociated with the Exeter River. The westerd provides y(n) excellent habitat for the y(n) rarer spotted and Blandma (BML) Title Priorizative grave operations potentially accomode twite egg laying as doctors

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form 6 9 07 Size: 3.0 Wetland ID: 井50 WEI Project # 06-076NH Classification: PROVE SSIE Aerial Photograph #: Z4955 - 3 - 29 Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Restrictive layer present (y)n Groundwater relationship present Variable water levels observed Subsoil type: gray sendy losm Other geologic features: thick "o" lever Springs or seeps observed Function Present (y)n Contains only inlet or outlet Yes Floodflow Alteration Watershed Information Topographic Information Land cover in catchment area? forest Juster Topography of watershed: Watershed position Topography of wetland: Other catchment storage Constricted outlet Watercourse associated High degree of impervious Contains hydric A soils surfaces in wetland watershed **Function Present** Provides downstream protection Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Broad boundary transition y(n) Organic Soils Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Vegetation Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present Nutrient Removal/Retention Transformation Transformers** Hydrology Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present Production Export Export** Vegetation Density Detritus Interspersion Aquatic plants Berry producing shrubs Diversity Nectar sources Food source

Sediment/Shoreline Stabilization
Is wetland associated with surface to

Function Present

Is wetland associated with surface water? (if no, stop), Perennial or intermittent

Seed/mast sources

Yes

No

Characteristics of Stream Description of Bank Elevation change present y n Bank present y n Bank vegetated High seasonal flows y n y n Bank eroded Channelized flow y n Steep bank Open water fetch y n y n Stabilized Bank y n **Function Present** y n

Wildlife Habitat Existing Critical Habit	ratyn Ty	pe: Scrub-shrub wellend component	Principal Function
Critical Habitat Featu	res n	Specific Features:)
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover	yn yn y fi yn yn yn	Connectivity Wildlife Corridor (through or adjacent) Wetland connectivity Upland connectivity Strengths of Upland Habitat:	oxisting wildlife
Function Present	\mathfrak{D}^n		(Yes)No
Vegetated Buffer Type: forcet or ber Buffer stream or wetlan Does buffer provide sha Does buffer adequately safeguard wetland Wetland Values	d 💟 n	Habitat Degradation Percentage of wetland buffer with Activities that adversely affect wild Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:	
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails Value	y n n y n n y n n y n n y n n H M		renow existing colvert to maintain not lent state (y) (potentially)
Educational/Scientific Unique habitats/plant sp Diverse wildlife habitat Parking/access Value	pecies (y)	Invasive Species Present: Type:	y n
Uniqueness/Heritage Urban upland/proximity Rapid development upl Critical habitat/threaten endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor	and In ed or In y n y n y n y n	Comments/Notes This wellend only its s prevents en	exemplery status

Town of Fremont Inventory Functional/Value Assessment Data Form						
Wetland ID: 52 Size: 3.2 Classification: PF05/EM1Eb.	Date: 8 (0 7 Aerial Photograph #: (0 - 2	WEI Project # 06-076NH				
Wetland Functions						
Groundwater Recharge/Discharge Geology Restrictive layer present On Subsoil type: growel over ledge Other geologic features: Function Present y n	Hydrology Groundwater relationship present Variable water levels observed Springs or seeps observed Contains only inlet or outlet	Principal Function y n y n Y n Y es No				
Floodflow Alteration Watershed Information Land cover in catchment area? Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present	Topographic Information Topography of watershed: Topography of wetland: Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection	oderate slopes of shaped. On bearer dan yn (Yes) No				
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition Vegetation Herbaceous vegetation Dense vegetation Function Present Soils n n n	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention	y n y n O n O n O n V n Yes No				
Nutrient Removal/Retention Transformal Hydrology Open water present y no Slow moving water y no Nutrients upslope y no Function Present y n	Transformers Organic soils Aquatic vegetation Abundant vegetation	On y (i) On Yes No				
Production Export Vegetation Density H M L Interspersion H M L Food source Y n Function Present Y n	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	yn yn yn yn Yn Yes No				
Sediment/Shoreline Stabilization Is wetland associated with surface water? Characteristics of Stream Elevation change present y n High seasonal flows y n Channelized flow y n Open water fetch y n	(if no, stop), Perennial or intermitte Description of Bank Bank present Bank vegetated Bank eroded Steep bank Stabilized Bank	y n y n y n y n y n				
Function Present y n		Yes (No)				

Wetland ID: 52		
Wildlife Habitat Existing Critical Habitat yn	Type:	Principal Function
Critical Habitat Features on	Specific Features:	
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Piversity Features y n y n y n y n	Connectivity Wildlife Corridor (through or Wetland connectivity Upland connectivity Strengths of Upland Habi	On The Control of the
Function Present		(Yes) No
Vegetated Buffer Type: Width: 2 Buffer stream or wetland On Does buffer provide shade On Does buffer adequately safeguard wetland On	Habitat Degradation Percentage of wetland buff Activities that adversely aff Existing structure(s) that of animal movement Significant disturbance Proximity to beaver, mink, otter habitat Other:	fect wildlife function: 070 postruct y n y n
Wetland Values		
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails	Restoration Stabilization y n Restoration area s N N N N N H2O Degradation Present	
Value	H MD	
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value	Invasive Species Present Yn Type: H M L	
Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor	Comments/Notes y(f)	bandared bearer pand

West Environmental, Inc.

Classification: PEMIA

Wetland ID: #55 Size: 6

Town of Fremont Inventory Functional/Value Assessment Data Form

Wetland Functions		
Groundwater Recharge/Discharge Geology Restrictive layer present Subsoil type: Thy Other geologic features: Function Present On I rever	Hydrology Groundwater relationship present Variable water levels observed Springs or seeps observed Contains only inlet or outlet	Principal Function (y n (y) n
Floodflow Alteration Watershed Information Land cover in catchment area? Field Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present ML yn yn yn	Topographic Information Topography of watershed: Topography of wetland: Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection	yn (Yes) No
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition yn Vegetation Herbaceous vegetation Dense vegetation Function Present Soils yn N N N N N N N N N N N N N	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention	yn forthized fields yn yn yn yn yn yn Yes No
Nutrient Removal/Retention Transforms Hydrology Open water present Slow moving water Nutrients upslope Function Present Yn	Transformers Organic soils Aquatic vegetation Abundant vegetation	yn (predominantly grasses) (Yes) No
Production Export Vegetation Density HML Interspersion HML Food source yn Function Present yn	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	yn yn (scatered flowern, heros) yn Yes No
Sediment/Shoreline Stabilization Is wetland associated with surface water?	(if no, stop), Perennial or intermitte	ent
Characteristics of Stream Elevation change present y n High seasonal flows y n Channelized flow y n Open water fetch y n Function Present y n	Description of Bank Bank present Bank vegetated Bank eroded Steep bank Stabilized Bank	y n y n y n y n y n

Date: 6 6 7 WEI Project # 06-076NH Aerial Photograph #: 24933-3-3

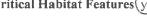
Wildlife Habitat

Existing Critical Habitat(y)n

Type: Wet/sedge mezdow

Principal Function

Critical Habitat Features(y)n



Diversity Features Aquatic insect habitat

Amphibian habitat Fisheries habitat Cavity trees Food sources

Cover **Function Present**

Vegetated Buffer

Type: Field Width: Buffer stream or wetland y n Does buffer provide shade y n Does buffer adequately safeguard wetland y n

Specific Features: nesting potential; possible connection with sede wien

Connectivity

Wildlife Corridor (through or adjacent) y(n) Wetland connectivity Upland connectivity

Strengths of Upland Habitat:

The size of the edjecent

Habitat Degradation

Percentage of wetland buffer with encroachment: (20%)

Activities that adversely affect wildlife function:

Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or

otter habitat Other:

yn edjecent Martin Road

potential nitrite introduction by agricultural fertilizer

Wetland Values

Recreational Value

Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails

Value

H M L

Educational/Scientific Value Unique habitats/plant species

Diverse wildlife habitat Parking/access

Value

Uniqueness/Heritage

Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value

Restoration Stabilization Potential

y) (rotentially) refull historical ditches Restoration area size: to all ow field to revert

H2O Degradation

Present

Invasive Species Present:

Type: (Non-netire gresses extent)

Comments/Notes

This wet need on is edjecent to 2 large open grassed area. This wet meed on mest provide specific resting requirements to certain grand nesters.

West Environmental, Inc. Town of Fremont Inventory Functional/Value Assessment Data Form Date: 9/07 Wetland ID: 54 Size: 4.2 WEI Project # 06-076NH Aerial Photograph #: 24933-3-2 Classification: PFOIE Wetland Functions Groundwater Recharge/Discharge **Principal Function** Geology Hydrology Groundwater relationship present (y)n Restrictive layer present y(n) Subsoil type: Sandy lozm Variable water levels observed Other geologic features: Springs or seeps observed Function Present (y)n Contains only inlet or outlet Floodflow Alteration Watershed Information new desclopent. Topographic Information Land cover in catchment area? forest Topography of watershed: Watershed position H M(L) Topography of wetland: Other catchment storage (Constricted outlet Watercourse associated (High degree of impervious Edjecent decelopment Contains hydric A soils surfaces in wetland watershed same **Function Present** Provides downstream protection Sediment/Toxicant/Pathogen Retention Soils Setting & Hydrology Organic Soils Upstream sources of pollution Broad boundary transition y n Erosion/sedimentation observed Vegetation Diffuse flow/slow moving water Herbaceous vegetation Does wetland flood Dense vegetation Long water retention **Function Present Nutrient Removal/Retention Transformation** Hydrology **Transformers** Open water present Organic soils Slow moving water Aquatic vegetation Nutrients upslope Abundant vegetation **Function Present Production Export** Vegetation **Export** Density Detritus Interspersion Aquatic plants Diversity Berry producing shrubs Food source Nectar sources **Function Present** Seed/mast sources **Sediment/Shoreline Stabilization** Is wetland associated with surface water? (if no, stop), Perennial or intermittent

Characteristics of Stream Description of Bank Elevation change present y n Bank present y n High seasonal flows Bank vegetated y n y n Channelized flow Bank eroded y n y n Open water fetch Steep bank y n y n Stabilized Bank y n Function Present y n No

Wetland ID: 54 Wildlife Habitat Existing Critical Habitat yn T	ype: Principal Function
Critical Habitat Features yn	Specific Features: white pine understand
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Y	Connectivity Wildlife Corridor (through or adjacent) y n Wetland connectivity Upland connectivity Strengths of Upland Habitat:
Function Present y n	to the north Yes No
Vegetated Buffer Type: Force Frozd Width: 25 Buffer stream or wetland yn Does buffer provide shade yn Does buffer adequately safeguard wetland yn 3e	Habitat Degradation Percentage of wetland buffer with encroachment: 50% Activities that adversely affect wildlife function: Existing structure(s) that obstruct animal movement Significant disturbance Proximity to beaver, mink, or otter habitat Other:
Wetland Values	
Recreational Value Parking available A CALLAGE SECTION NATIONAL SECTION NA	Restoration Stabilization Potential (y) n Restoration area size: (2 20) H2O Degradation Present (n)
Value Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat Parking/access Value H M	Invasive Species Present: y n Type:
Uniqueness/Heritage Urban upland/proximity Rapid development upland Critical habitat/threatened or endangered species Archaeological sites Stonewalls present Historic sites Ecological health/vigor Value N n y n y n y n H M	<u>Comments/Notes</u>

Town of Fremont Inventory Funct	tional/Value Assessment Da	ata Form
Wetland ID: 55. Size: 6137 Classification: PFOIC	Date: 8/07 Aerial Photograph #:	WEI Project # 06-076NH
Wetland Functions		6 - 0
Groundwater Recharge/Discharge Geology Restrictive layer present yn Subsoil type: Sands of Grave Other geologic features: Over agrifu Function Present yn	Hydrology Groundwater relationship present Variable water levels observed Springs or seeps observed Contains only inlet or outlet	Principal Function In In In In In In In In In
Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present H M I n H M I n V n	Topographic Information Topography of watershed: Topography of wetland: Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection	gentle do Moderate o lopes at. On On On (Yes) No
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition on Vegetation Herbaceous vegetation Dense vegetation Function Present Soils n n n n n The soil of the section of the	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention	On Vin Ves No
Nutrient Removal/Retention Transformat Hydrology Open water present Slow moving water Nutrients upslope Function Present Present Nutrients upslope Function Present	tion Transformers Organic soils Aquatic vegetation Abundant vegetation	On On On Ves No
Production Export Vegetation Density Interspersion Diversity Food source Function Present Function Present Function Export Function Expor	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	n n n n (Fes) No
Sediment/Shoreline Stabilization Is wetland associated with surface water? Characteristics of Stream Elevation change present on High seasonal flows Channelized flow Open water fetch Function Present on	Control of the contro	On On On On On On On On

West Environmental, Inc.

Existing Critical Habitat y (n	Туре:	Principal Function
Critical Habitat Features y	Specific Features:	River Floodplann
Diversity Features Aquatic insect habitat Amphibian habitat Fisheries habitat Cavity trees Food sources Cover Function Present On n n v v	Connectivity Wildlife Corridor (i) Wetland connectivity Upland connectivity	through or adjacent on nity on nity n
Vegetated Buffer	Habitat Degradati	
Type: Freeled /llois Widt Buffer stream or wetland on n Does buffer provide shad on n Does buffer adequately safeguard wetland y Wetland Values	th: O-Soo Percentage of wetla Activities that adve Existing structure(s animal movement Significant disturba Proximity to beaver otter habitat	ersely affect wildlife function: 50% s) that obstruct On Culiver F to 7 nte ance
		•
Recreational Value Parking available Watercraft access Fishing available Hunting permitted Walking/biking trails	Restoration Stabil y n y n Restoration y n Present Restoration y n Restoration Present	on area size:
Value	H ML	<i>,</i>
Educational/Scientific Value Unique habitats/plant species Diverse wildlife habitat	Invasive Species F	Present: y n
Parking/access Value	H M(L)	

West Environmental, Inc.

Town of Fremont Inventory Functional/Value Assessment Data Form

Wetland ID: 56 Size: S.○ Classification: PFOIE\SSIE	Date: 6(31/0-1 Aerial Photograph #: 24933 -	WEI Project # 06-076NH
Wetland Functions		
Groundwater Recharge/Discharge Geology Restrictive layer present y n Subsoil type: work per to the geologic features: Function Present y n	Hydrology Groundwater relationship present Variable water levels observed Springs or seeps observed Contains only inlet or outlet	Principal Function yn yn yn y n Yes No
Floodflow Alteration Watershed Information Land cover in catchment area? Watershed position Other catchment storage Watercourse associated Contains hydric A soils Function Present Watershed Information H M L On H M L O	Topographic Information Topography of watershed: Topography of wetland: Constricted outlet High degree of impervious surfaces in wetland watershed Provides downstream protection	y(n) (4ft x 3ft) colvert y(n) (4ft x 3ft) colvert y(n) (7es) No
Sediment/Toxicant/Pathogen Retention Soils Organic Soils Broad boundary transition y n Vegetation Herbaceous vegetation Dense vegetation Function Present Soils y n y n y n y n	Setting & Hydrology Upstream sources of pollution Erosion/sedimentation observed Diffuse flow/slow moving water Does wetland flood Long water retention	yn nezrou rozds yn yn yn yn yn
Nutrient Removal/Retention Transforma Hydrology Open water present Slow moving water Nutrients upslope Function Present Nutrients upslope Yn Slow moving water Yn	Transformers Organic soils Aquatic vegetation Abundant vegetation	yn yn Yes No
Production Export Vegetation Density HML Interspersion HML Diversity HML Food source yn Function Present yn	Export Detritus Aquatic plants Berry producing shrubs Nectar sources Seed/mast sources	y n y n y n y n y n Y n Yes No
Sediment/Shoreline Stabilization Is wetland associated with surface water? Characteristics of Stream Elevation change present yn High seasonal flows yn Channelized flow yn Open water fetch y n	(if no, stop), Perennial or Intermitted Description of Bank Bank present Bank vegetated Bank eroded Steep bank Stabilized Bank	ent y n y n y n y n y n y n
Function Present (y) n	Staumzeu Dank	Yes No

Ecological health/vigor

Value

Appendix B

Natural Heritage Bureau List for Fremont



Town Flag	Species or Community Name	List Federal		# reported Town	last 20 State
Freme	<u>ont</u>				
**	Natural Communities - Palustrine Medium level fen system Poor level fen/bog system Plants		- -	1 1	58 27
skr	Green Adder's Mouth (Malaxis unifolia) Separated Sedge (Carex seorsa) Tufted Loosestrife (Lysimachia thyrsifiora)	 	T E T	Historical 1 Historical	56 2 9
**	Vertebrates - Reptiles Blanding's Turtle (Emydoidea blandingii) Invertebrates - Mollusks Brook Floater (Alasmidonta varicosa)		E	2 Historical	111 31
Gilfor	d				
**	Vertebrates - Birds Bald Eagle (Haliaeetus leucocephalus)	М	Ε	2	21
<u>Gilma</u>	anton				
	Plants American Plum (Prunus americana) Awlwort (Subularia aquatica var. americana) Climbing Fumitory (Adlumia fungosa) Coast-blite Goosefoot (Chenopodium rubrum) Fringed Gentian (Gentianopsis crinita) Goodenough's Sedge (Carex nigra) Inflated Sedge (Carex bullata) Leafy Pondweed (Potamogeton foliosus) Mossy-cup Oak (Quercus macrocarpa) Vertebrates - Birds		E T E E T T E E E	Historical Historical Historical Historical Historical Historical Historical Historical	7 4 17 6 25 2 4 5
**	Common Loon (Gavia immer)	-	т	3	225
**	Vertebrates - Reptiles Wood Turtle (Glyptemys insculpta)		-	1	111

Listed?

E = Endangered

T = Threatened

W = Special concern (watch list)

M = Monitored

Flags

**** = Highest importance

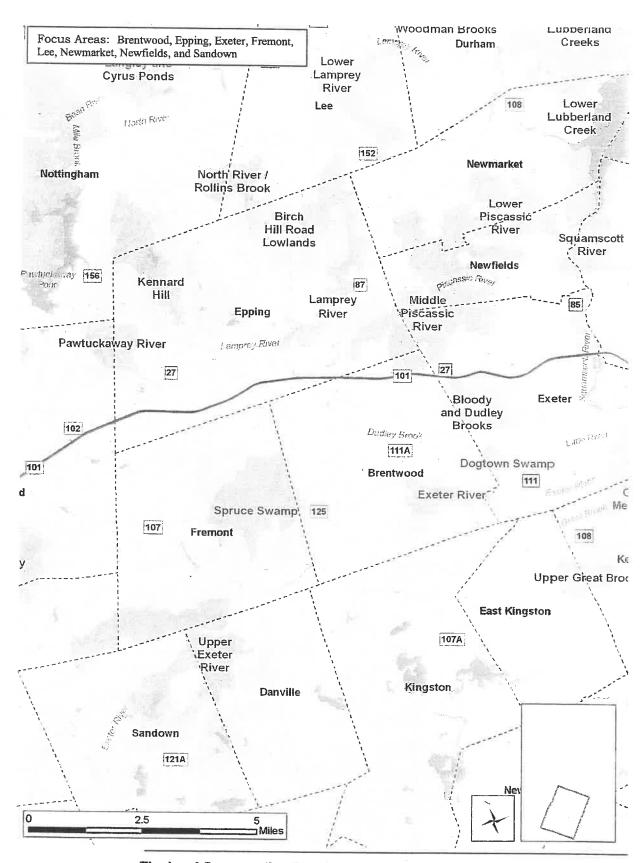
*** = Extremely high importance

** = Very high importance * = High importance

These flags are based on a combination of (1) how rare the species or community is and (2) how large or healthy its examples are in that town. Please contact the Natural Heritage Bureau at (603) 271-2214 to learn more about approaches to setting priorities.

Appendix C

Maps & Excerpts from The Land Conservation Plan for New Hampshire's Coastal Watersheds



The Land Conservation Plan for New Hampshire's Coastal Watersheds / IV-6

The Land Conservation Plan for New Hampshire's Coastal Watersheds: Conservation Focus Area Description

Name:	Upper Exeter River	
1	obbei rverei iziael	
Location		
	Chester, Danville, Fremont, Sandown	
Town(s)		
Watershed (HUC 10)	Exeter River, Merrimack River	
	CORE AREA	SUPPORTING NATURAL LANDSCAPE
Size	3,010 acres	2,110 acres
Significant Ecological Resources		
Forest Ecosystem	- MALES	
Unfragmented forest block	a 740 acre block, a portion (~50%) of an 800 acre block; a	a 740 gers blest, as 900 sers blesty a 2 440 ser
Omragmented forest block	portion (~25%) of a 2,110 acre block and a 1,300 acre block (in its entirety) identified as Tier 2 priorities in the 2005 Wildlife Action Plan	a 740 acre block, an 800 acre block, a 2,110 acr block and a 1,300 acre block identified as Tier 2 priorities in the 2005 Wildlife Action Plan
Aggregated forest blocks	located within a 24,700 acre block	
Freshwater Systems		
High quality stream watersheds	none	none
Important stream reaches	none	none
Presence/absence of dams (within high quality watersheds)	none	none
River & stream miles	6.5 miles of 1st order, 1.9 miles of 2nd order, 7.1 miles of 4th order	3.6 miles of 1st order, 0.5 miles of 4th order
Coastal & Estuarine Resources		
Coastal and estuarine shoreline	not a coastal / estuarine area	not a coastal / estuarine landscape
Tidal rivers & streams		
Coastal forest blocks		
Tidal wetlands		
Important Plant & Wildlife Habitat		
Plants of conservation concern	none known	none known
Animals of conservation concern	Ardea herodias (Great Blue Heron (Rookery), G5, S4B)	Accipiter cooperii (Cooper's Hawk, threatened,
	Pooeceles gramineus (Vesper Sparrow, G5, S2-S3)	G5, S2B) Ardea herodias (Great Blue Heron (Rookery), G
		S4B)
		Enneacanthus obesus (Banded Sunfish, G5, S3
		Pooecetes gramineus (Vesper Sparrow, G5, S2
Significant wildlife habitats	floodplain forest, grassland, marsh, peatland, ridge / talus	grassland, marsh, peatland, ridge / talus
Exemplary natural communities and	none known	none known
systems		
Other Resource Features & Public	Value	- 10 000 000000000000000000000000000000
Water Supply	r aluça	
High yield aquifer (maximum	299.8 acres	220.0 acres
transmissivity >1,000 ft2 / day)		220.0 doi:03
Surface water intakes	none	none
Wells ,	Colby Pond (1 community well)	none
	Mill Pine Village (2 community wells)	
Wellhead protection areas	Barnyard Buddies (18.3 acres)	Colby Pond (519.1 acres)
	Colby Pond (420.9 acres)	Danville Four Seasons (61.5 acres)
	Cornerstone Estates (433.3 acres)	Sandown Central School (1.2 acres)
	H	
	Mill Pine Village (228.7 acres) Playmates Learning Center (3.5 acres)	Stoneford (43.5 acres)
Favorable gravel well sites	Playmates Learning Center (3.5 acres)	101.9 acres
3.000		10110 40163
	111	
Agricultural Lands		
Agricultural Lands Prime or statewide importance farm soils	71.2 acres of prime farmland and 72.3 acres of farmland of	21.4 acres of prime farmland and 8.2 serve of

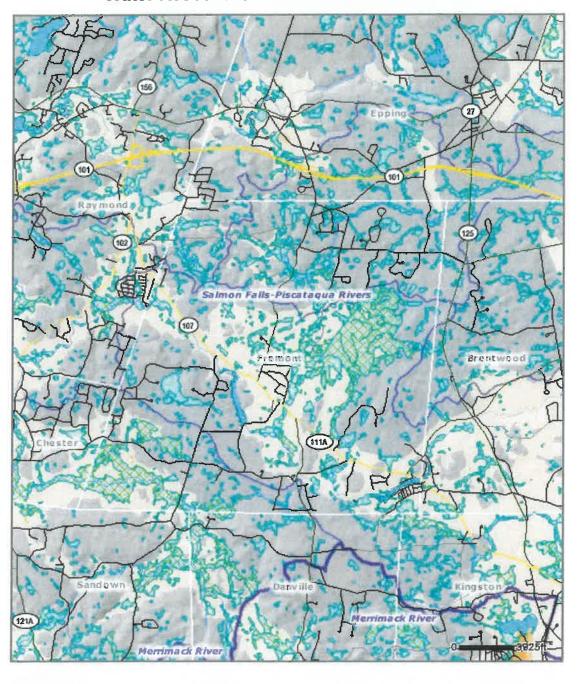
The Land Conservation Plan for New Hampshire's Coastal Watersheds: Conservation Focus Area Description

Landscape Connectivity	Low to moderate connectivity value between conservation lands, and forest blocks	Low to moderate connectivity value between conservation lands, and forest blocks		
	High potential connectivity along watercourse.	High potential connectivity along watercourse.		
Other Documented				
Current Conservation Status		(mg - 184 m g -		
Permanently Protected, Managed as natural area or ecological reserve (GAP 1 & 2)	4 acres	o.		
Permanently Protected, Managed primarily as working forest (GAP 3) Not permanently protected, but in public or institutional ownership (GAP 3a)	207 acres 30 acre	411 acres 46 acres		
Managed primarily (more than 50% by area) for extractive uses (GAP 4)	-			
Total conserved	241 acres	457 acres		
Relationship to other Plans				
Area identified in other planning initiatives	Upper Exeter River tributaries specifically mentioned in Fremont and Sandown master plans. Specific mention of Sargent Road vicinity in Sandown plan. No specific mention in Danville master plan.	Upper Exeter River tributaries specifically mentioned in Fremont and Sandown master plans. Specific mention of Sargent Road vicinity in Sandown plan. No specific mention in Danville master plan.		
	Focus of the Exeter River Local Advisory Committee.			

Appendix D

Aquifer Maps

Water Resources: Fremont Water Resources





Location Map



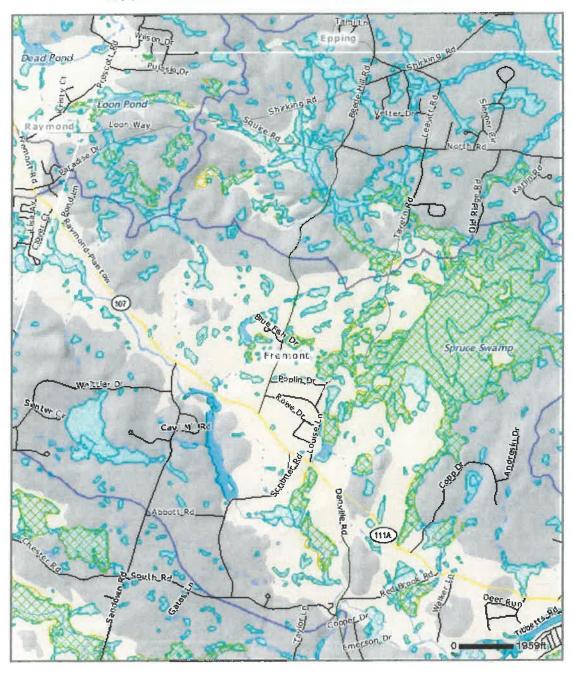
Map Produced: September 09, 2007





NH GRANIT DATA MAPPER

Water Resources: Fremont Water Resources





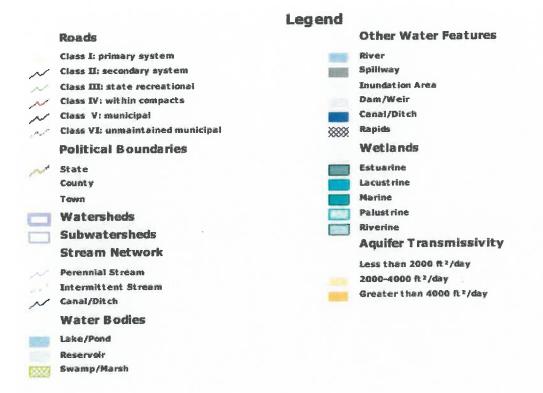








Water Resources: Fremont Water Resources



Data Sources

All data are maintained and/or distributed by NH GRANIT. See www.granit.sr.unh.edu for detailed documentation on individual data layers.

Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center, under contract to the NH Office of Energy and Planning, and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. OEP, CSRC, and the cooperating agencies make no claim as to the validity or reliability or to any implied uses of these data.