February 2, 2007



Mr. Charles Turlinski Horizon Wind Energy 3 Columbia Place Albany, NY 12207

Subject: Rare Plant Assessment Report Marble River Wind Farm Clinton County, New York

Dear Mr. Turlinski:

Tetra Tech EC, Inc. (TtEC) is pleased to provide this Rare Plant Assessment Report for the proposed Marble River Wind Farm. The purpose of this assessment is to determine what listed plant species or their habitat are present, or are likely to be present, at the proposed Marble River Wind Farm. The following provides the introduction, methods, results and summary of the assessment.

INTRODUCTION

This report presents the findings of a rare plant assessment for the proposed Marble River Wind Farm. This effort included the identification of rare plants that may occur within the project area, researching the habitat and plant associations of the potential plant species, and reviewing wetland and upland delineation data that were collected during the 2005 and 2006 wetland delineation effort to determine if these plants or their potential suitable habitat was encountered at the Site.

METHODS

This effort included the determination of rare plants that may occur within the project area, researching the habitat, plant associations and range of distribution of the potential rare plant species, and reviewing wetland delineation data that were collected during the wetland delineation effort to determine if these plants or their potential suitable habitats were encountered at the Site. While the wetland delineation effort is not a formal threatened and endangered species survey, it does constitute a plant survey of the potentially affected areas and provides an initial assessment of whether these plants are present in the project area.

Correspondence from the USFWS and the NYSDEC regarding the presence of rare plants or communities within the proposed Marble River Wind Farm project were reviewed to determine if there were any documented occurrences of rare plants or communities at the Site. In addition, the New York Natural Heritage Program (NYNHP) Rare Plant Lists and the USFWS Threatened and Endangered Species System (TESS) databases were reviewed to determine what rare plants have been documented in Clinton County, New Mr. Turlinski February 2, 2007 Page 2 of 8

York. Specific habitats, plant associations and the distributions of the listed plant species documented in Clinton County were researched using readily available information including various internet sources. Wetland data from the 2005 and 2006 delineation effort at the proposed Marble River Wind Farm were reviewed to determine if any of these listed species, or their potential habitat and/or plant associations were observed during the wetland delineation field effort.

Areas with potential habitats or plant associations for listed species will be targeted for specific threatened and endangered species surveys that will be conducted by a qualified botanist, familiar with the flora of New York State, in the spring and fall of 2007. A letter report, identifying the findings of the survey, will be generated and provided to the USFWS and the NYSDEC for review upon the completion of the field effort.

RESULTS

Identification of Rare Plants within the Project Area

Results of the review of USFWS and NYSDEC correspondence (2004, 2005 and 2007), and the NYNHP Rare Plant List and the USFWS TESS databases are provided in the following sections.

State and Federal Correspondence Review. USFWS and the NYSDEC Division of Fish, Wildlife and Marine Resources correspondence from March 9 and April 15, 2004 (NYSDEC and USFWS, respectively), October 20 and November 3, 2005 (USFWS and NYSDEC, respectively) and January 30, 2007 (NYSDEC) regarding the presence of rare plants or communities within the proposed Marble River Wind Farm project area was reviewed. According to the USFWS and the NYSDEC, no federally or state-listed plant species or communities are documented within the proposed project area. An updated request regarding the presence of threatened and endangered species at the proposed Marble River Wind Farm was submitted to the USFWS on January 12, 2007. A response to this request was not received at the time of this report preparation. This correspondence will be reviewed prior to the commencement of the 2007 field surveys. Copies of the above listed correspondence are provided in Attachment 1.

Natural Heritage Program Database. The May 2006 NYNHP Rare Plant Status Lists identifies 32 confirmed state-listed plants as occurring in Clinton County. Sixteen of these plant species are state-listed endangered, 15 are state-listed threatened and one is identified as rare. The majority (16) of the plant species listed were, or were assumed to be, wetland plants, 13 were, or were assumed to be, upland plants, and three plant species were identified as occurring in either habitats. Eleven federally listed species were also identified by the NYNHP as occurring in New York State; however, there are no recorded occurrences of these federally listed species in Clinton County. Table 1 identifies the common and scientific name of the 32 state-listed species, the state status and the regional wetland indicator status.

USFWS Threatened and Endangered Species System. The USFWS TESS identifies ten plant species as potentially occurring in New York State. Of these ten species, the habitat

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of one, the northern wild monk's-hood (*Aconitum noveboracense*), which includes cool streamsides, occurs within the project boundaries. However, according to the NYNHP Rare Plant Status Lists, this plant, listed as threatened, is not documented in Clinton County.

Habitat, Plant Association and Range Review

Based on a literature search of the habitat, plant association and range of the 32 confirmed state listed species, seven of these (Purple rock-cress, Rock-cress, Smooth rock-cress, Northern stickseed, Water milfoil, Dwarf sand-cherry and Low sand-cherry) require specific habitats that were not identified within the proposed Marble River Wind Farm project area. These habitats include rock ledges, overhangs and cliffs, talus slopes, limestone rock crevices, acid lakes, sandbars and rocky shores. Also, the range of six plant species (Champlain beachgrass, Back's sedge, Crawe's sedge, Emory's sedge, Handsome sedge and Cat-tail sedge) did not extend into the project area. Portions of the ranges of Cloud sedge, Northern wild comfrey and Veiny Meadow-rue extend into the project area. The range of Cloud sedge and Northern wild comfrey extends into the southern portion of the project area and the range of Veiny Meadow-rue extends into the northwestern portion of the project area. Therefore, of the 32 state-listed plant species that occur within Clinton County, 19 could potentially occur within at least a portion of the project area. Table 2 lists the common name, habitat and plant association of the 19 confirmed state-listed plant species, which could potentially occur at the proposed Marble River Wind Farm.

Wetland Data Review

None of the 32 state-listed threatened or endangered plant species documented in Clinton County were observed in the 384 wetlands or 80 streams that bisect the proposed Marble River Wind Farm during the 2005 and 2006 wetland delineation effort. Table 3 lists the 384 wetland crossings delineated at the proposed Marble River Wind Farm by covertype. Based on covertype, all of the project's wetlands could potentially provide habitat for one or more of the 19 state-listed plant species that have ranges which overlap the project area. The locations of the 384 wetland and 80 stream crossings associated with the proposed Marble River Wind Farm are provided on Figure 1.

SUMMARY

According to USFWS and NYSDEC correspondence from 2004 and 2005 and NYSDEC correspondence from 2007, there are no documented occurrences of listed plant species within the project area. Also, threatened or endangered plant species were not observed at the proposed Marble River Wind Farm site during the 2005 and 2006 wetland delineation effort. Covertypes that could support the habitat and/or plant associations of 19 state-listed plant species (11 wetland, six upland and two facultative) were identified within the project area. These areas will be surveyed in the spring and fall of 2007 for the presence of any listed plant species. Suitable upland habitats for state-listed plant species in those portions of the project area other than at the delineated wetland crossings will be identified and surveyed during the 2007 field survey.

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Thank you for the opportunity to support you on this project. Should you have any questions or comments regarding this submittal, please call me at (973) 630-8402.

Very truly yours,

Richard Delahunty Project Manager

Figure 1- Wetland Delineation Map (Refer to the Figure 1, provided in the following supplement to this document)

Table 1							
State-Listed S	pecies i	n Clinton	County,	New	York		

Common Name	Scientific Name	State Status	Regional
			status ¹
Champlain beachgrass	Ammophila champlainensis	endangered	WET*
Purple rock-cress	Arabis divaricarpa	rare	FACU
New England northern reedgrass	Calamagrostis stricta ssp. inexpansa	threatened	WET*
Northern reedgrass	Calamagrostis stricta ssp. stricta	endangered	WET*
Back's sedge	Carex backii	threatened	UPL*
Crawe's sedge	Carex crawei	threatened	FACW
Clustered sedge	Carex cumulata	threatened	FACU
Emory's sedge	Carex emoryi	endangered	OBL
Handsome sedge	Carex formosa	threatened	FAC
Cloud sedge	Carex haydenii	endangered	OBL
Houghton's sedge	Carex houghtoniana	threatened	UPL*
Cat-tail sedge	Carex typhina	threatened	FACW+
Prairie redroot	Ceanothus herbaceous	endangered	UPL*
Golden corydalis	Corydalis aurea	threatened	UPL*
Northern wild comfrey	Cynoglossum virginianum var. boreale	endangered	UPL*
Ram's head lad's slipper	Cypripedium arietinum	threatened	FACW+
Northern tansy mustard	Descurainia pinnata ssp. brachycarpa	endangered	UPL*
Rock-cress	Draba arabisans	threatened	UPL*
Smooth rock-cress	Draba glabella	endangered	UPL*
Ovate spikerush	Eleocharis ovata	endangered	OBL
Marsh horsetail	Equisetum palustre	threatened	FACW
Meadow horsetail	Equisetum pratense	threatened	FACW
Northern stickseed	Hackelia deflexa var. americana	endangered	UPL*
Spurred gentian	Halenia deflexa	endangered	FAC
American shore-grass	Littorela uniflora	endangered	OBL
Water milfoil	Myriophyllum alterniflorum	threatened	OBL
Riverweed	Podostemum ceratophyllum	threatened	OBL
Dwarf sand-cherry	Prunus pumila var. depressa	threatened	UPL*
Low sand-cherry	Prunus pumila var. pumila	endangered	UPL*
Slender bulrush	Schoenoplectus heterochaetus	endangered	WET*
Veiny meadow-rue	Thalictrum venulosum	endangered	WET*
Melic-oats	Trisetum melicoides	endangered	FAC

¹Indicator Categories:

FAC = Facultative - Equally likely to occur in wetlands or non wetlands

FACU = Facultative upland – Usually occurs in non-wetlands + = More frequently found in wetlands

UPL* = not listed on Region 1 National List of Plant Species that Occur in Wetlands: Northeast (Region 1). Presumed to be an upland species

WET* = not listed on Region 1 National List of Plant Species that Occur in Wetlands: Northeast (Region 1). Presumed to be a wetland species

FACW = Facultative wetland – Usually occurs in wetlands

OBL = Obligate wetland - In natural conditions, occurs almost always in wetlands

Table 2State-Listed Species That Could Potentially Occur at
The Marble River Wind Farm Site

Common Name	Habitat	Plant Association
Wetland Plant Species		
New England northern reedgrass	Wet meadows, along streams and lake shores	ND
Northern reedgrass	Wet meadows, along streams and lake shores	ND
Cloud sedge	Red maple-hardwood swamp, sedge meadow and shallow emergent marsh	Tussock sedge (<i>Carex stricta</i>), sheep laurel (<i>Kalmia angustifolia</i>), meadow-sweet (<i>Spirea alba</i>)
Ram's head lad's slipper	Coniferous swamps and bogs including northern white cedar swamp	Northern white cedar (<i>Thuja occidentalis</i>), balsam fir (<i>Abies balsamea</i>), tamarack (<i>Larix laricina</i>) and spruce (<i>Picea</i> sp.)
Ovate spikerush	Shallow waters, marshes and swamps	Tamarack, spruce and cattail (<i>Typha latifolia</i>)
Marsh Horsetail	Along stream and pond edges and in marshes and wooded swamps	Tamarack, spruce, white cedar, speckled alder (<i>Alnus incana</i>), bebb willow (<i>Salix bebbiana</i>) meadowsweet, sedges (<i>Carex</i> spp.) and sphagnum moss (<i>Sphagnum</i> sp.)
Meadow horsetail	Moist woods, thickets and meadows	ND
American shore-grass	Wet shores and shallows	ND
Riverweed	Shoals in rocky stream and riverbeds	Monospecific community dominated by Riverweed
Slender bulrush	Emergent aquatic	Cat-tails, bulrushes (Schoenoplectus <i>spp.</i>), bur-reeds (<i>Sparganium</i> spp.), giant reed (<i>Phragmites australis</i>), water-plantains (<i>Alisma</i> spp.), arrowheads (<i>Sagittaria</i> spp.), and spikerush (<i>Eleocharis</i> spp.)
Veiny Meadow-rue	Shores and along riverbanks in rocky gravely soil	ND
Upland PLant Species		
Houghton's sedge	Sandy disturbed areas including roadsides and successional forests	Gray birch (<i>Betula populifolia</i>), quaking aspen (<i>Populus tremula</i>), big toothed aspen (<i>P. grandidentata</i>), black cherry (<i>Prunus serotina</i>), red maple (<i>Acer rubrum</i>) and white pine (<i>Pinus strobus</i>)
Prairie redroot	Northern upland forests	ND
Golden corydalis	Hillsides along streams and in open woods	Spruce, fir, maple, aspen, beech (Fagus grandifolia) and birch
Northern wild comfrey	Successional northern hardwoods	Sugar maple (Acer saccharum) and wild sarsaparilla (Aralia nudicaulis)
Northern tansy mustard	Waste ground, disturbed sites, open woods, and roadsides	Spruce, fir, aspen, maple, beech and birch
Clustered sedge	Open rocky habitats with shallow soil including shrub swamps	Hardhack spirea (<i>Spirea tomentosa</i>) and lowbush blueberry (<i>Vaccinium pallidum</i>)
Facultative Plant Species		
Spurred gentian	Northern lowland and upland forests, moist woods and riverside seeps	Joe-pye-weed (<i>Eupatorium maculatum</i>), boneset (<i>E. perfoliatum</i>), jewelweed (<i>Impatiens capensis</i>) and soft rush (<i>Juncus effusus</i>)
Melic-oats	Streambanks, gravelly shores, rock ledges and damp woods	ND

ND = not determined

Wetland Covertype ¹	Number of Wetland Crossings
PFO1	108
PFO1/PEM	10
PFO1/PSS	23
PFO1/PSS/PEM	3
PFO1/PFO4	16
PFO1/PFO4/PEM	1
PFO1/PFO4/PSS	5
PFO1/PFO4/PSS/PEM	2
PFO4	9
PFO4/PSS	2
PFO4/PEM	1
PSS	67
PSS/PEM	38
PSS/PEM/POW	4
PEM	94
PEM/OW	1
Total	384

Table 3Wetland Crossings by Covertype

¹PFO = Palustrine Forested Deciduous

PFO4 = Palustrine Forested Coniferous

PSS = Palustrine Scrub Shrub

PEM = Palustrine Emergent

POW = Open water

ATTACHMENT 1 AGENCY CORRESPONDENCE

(Copies of US Fish and Wildlife (USFWS) and New York Natural Heritage Program (NYNHP) correspondences regarding the presence of threatened and endangered species at the proposed Marble River Wind Farm are provided in Exhibit H of the Joint Wetland Permit Application)

MARBLE RIVER WIND FARM SUPPLEMENT TO THE RARE PLANT SURVEY REPORT

Qualified Tetra Tech Biologists conducted surveys for rare plant species that might occur within or adjacent to the proposed Marble River Wind Farm project footprint. In addition to wetland delineation surveys, which were conducted by wetland biologists for the entire project footprint, targeted surveys were conducted for rare species which have been reported in Clinton County.

Records of previous sightings of rare species and the presence of habitats where rare species occur, in or near the project area were used to prepare field staff to identify species they might encounter. The following information was compiled for these species:

- detailed description and illustrations/photographs,
- preferred habitat and associated species,
- ecological information including phenology, and
- State and global status based on information reported in Young 2007¹.

Phenology of most of the potentially occurring rare plants indicated early to mid-summer and fall surveys. Based on this surveys were conducted between 18 to 23 June 2007 and between 1 to 5 October 2007. Either systematic or random meander search patterns were used to survey areas that appeared likely to support rare taxa based on habitat and the judgment of the investigator. Much of the project footprint is limited to relatively narrow rights-of –ways; many of which are currently used or have historically been used as access roads. For these areas a random meander search pattern was used. For the 200 foot radius turbine work areas a more systematic pattern was used to provide greater coverage of the area and minimize overlap.

A review of 2006 aerial photography was used to determine preliminary boundaries of plant communities to be surveyed and described in the field. Land use in most of the northeast portion of the project area is associated with silvicultural and forested tracts have existing logging roads and hunting trails. Much of the forested land within this portion has been previously subjected to silvicultural harvesting with either the whole canopy and shrub components removed or the canopy selectively cut. The project area does not contain any virgin timber or climax forest, and most of the forest stands has been harvested three times or more over the last 200 years. In the southwest portion of the project the area agricultural land uses are dominant. Plant communities identified during the 2005-2007 wetland delineation field effort² were also used to identify potential survey locations. Second growth red maple-hardwood swamp, shrub swamp and shallow emergent marsh communities occurred most frequently at the Site. Less

¹ Young, Stephen M. 2007. New York Rare Plant Status Lists. New York Natural Heritage Program, Albany, NY. June 2007. 105 pages.

² Plant communities were determined based on results of vegetation data collected during the wetland delineation on designations provided in Edinger, G.J., D.J. Evans, S. Gebauer, T.G. Howard, D.M. Hunt, and A.M. Olivero (editors). 2002. Ecological Communities of New York State. Second Edition. A revised and expanded edition of Carol Reschke's Ecological Communities of New York State. (Draft for review). New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.

common wetland communities included Northern white cedar swamp, inland poor fen, deep emergent marsh, spruce-fir swamp, black spruce-tamarack bog, and red mapletamarack peat swamp. Locations of these communities were selectively targeted to conduct the rare plant surveys. The attached figure shows those portions of the project footprint that was surveyed. Coordinates of all locations where plant material was collected were recorded with a GPS unit.

A total of 337 species were identified during the summer (124 species), fall (48 species) and wetland delineation effort (277). The presence of state listed threatened or endangered plant species was not detected within or adjacent to the proposed project footprint. However, 20 exploitably vulnerable species were determined to occur within the project footprint of disturbance. A number of these species are associated with wetland habitats. Impacts to these species would be minimized, since most wetland impacts will be temporary and wetland soils will be segregated and restored following construction, conserving existing seed banks. In addition, several early blooming species, in particular orchids, were noted within or adjacent to the project footprint. Since these observed plants were past bloom, diagnostic characteristics associated with reproductive elements were not available to conclusively identify these plants. It is recommended that areas where potential orchid species were noted be revisited in spring prior to the start of construction.

Surveys can confirm the presence of rare plants on a site, but negative results do not guarantee that rare plant species are absent. However, for practical purposes, surveys that adhere to standardized methods provide reasonable evidence that rare plants do not occur in the survey area. Based on the results of site surveys for wetlands and rare plants, combined with the proposed construction techniques employing best management procedures for wetlands and the noted recommendation for orchids, it is likely that construction and operation of the Marble River Wind Farm will have minimal effects on rare plant species.

			June	October	Number of	
Spacing Nama	Common Nomo	Wetland Delineation	2007 Surveys	2007 Surveys	Surveys	Status
Species Name		Denneation	Surveys	Surveys	Docinented	Status
Ables balsamea		Х	х		2	
Ables fraseri	Fraser Fir	х			1	
Abutilon theophrasti	Velvetleaf	х			1	
Acer negundo	Box Elder	х			1	
Acer pensylvanicum	Striped Maple	х			1	
Acer rubrum	Red Maple	х	х		2	
Acer saccharum	Sugar Maple	х	х		2	
Achillea millefolium	Common Yarrow	х			1	
Acorus calamus	Sweet Flag	х			1	
Adiantum pendatum	Maiden Hair Fern		х		1	
Agrostis gigantea	Redtop	х			1	
Agrostis stolonifera	Spreading Bentgrass	х	х		2	
Alisma subcordatum	American Water Plantain	х			1	
Alnus crispa	Mountain Alder	х			1	
Alnus rugosa	Speckled Alder	х			1	
Alopecurus pratensis	Meadow Foxtail	х		х	2	
Ambrosia artemisiifolia	Annual Ragweed	х			1	
Ambrosia trifida	Great Ragweed			х	1	
Amelanchier arborea	Common serviceberry	х			1	
Amelanchier canadensis	Canadian serviceberry	х			1	
Amelanchier laevis	Shadbush Serviceberry	х			1	
Anaphalis margaritacea	Pearly Everlasting	х			1	
Andromeda glaucophylla	Bog Rosemary	х			1	
Anemonella thalictroides	Rue Anemone	х			1	
Anthoxanthum odoratum	Sweet Vernalgrass	х			1	
Apocynum androsaemifolium	Spreading Dogbane	х	х		2	
Apocvnum cannabinum	Clasping-Leaf Dogbane	х			1	
Aralia nudicaulis	Wild Sarsaprilla	х	х		2	
Arctium lappa	Great Burdock	x			1	
Arctium minus	Common Burdock	~	x		1	
Arisaema triphyllum	Jack-in-the-Pulpit		x		1	
Asarum canadense	Canadian Wildginger		X	x	1	
Asclenias svriaca	Common Milkweed	x	x	A	2	
Aster acuminatus	Whorled Wood Aster	x	X		1	
Aster junciformis	Rush Aster	×			1	
Aster novi-belgii	New York Aster	×			1	
Aster nuniceus	Purple-Stemmed Aster	×			1	
Aster umbellatus	Flat-Top White Aster	×			1	
Aster vimineus	Small White Aster	×			1	
Aster Virnineus Athurium filix fomina	Lady Forp	×	v		י ר	
Rarbaroa vorna	Early Wintercross	X	*		2 1	LV
Balbalea vellia Botulo ollogbonionoio	Vallow Pirch	X	X		1	
Betula allegitarilerisis	Pener Birch	X	X		2	
Betula papyrilera	Paper Birch	X			1	
Deluia populitolia	Gray birch	X	X		2	
Bidens cernua	Nodding beggantick			X	1	
Bracnyeiytrum aristosum	Long Awned woodgrass	Х	x		2	
Brassica rapa		х			1	
	Canadian blue-joint			х	1	
Calla palustris	Water Arum	х	Х		2	
Caltha palustris	Yellow Marsh Marigold	х	Х		2	
Carex communis	Fibrousroot Sedge		х		1	
Carex crinita	Fringed Sedge	Х	х	х	3	

			June	October	Number of	
Spacias Nama	Common Nomo	Wetland Delineation	2007 Surveys	2007 Surveys	Surveys	Status
Species Name		Denneation	Ourveys	Our veys	Docinented	Julius
Carex deplis var. Tudger			X		1	
Carex disperma	Someal Sedge		x		1	
	Heath Sedge		x		1	
	Yellow seage			x	1	
	Greater bladder sedge	Х	x	x	3	
Carex Iupilina	Hop Sedge	х	х		2	
Carex Iurida	Lurid Sedge	х	х		2	
Carex magellanica	Boreal Bog Sedge		х		1	
Carex scoparia	Pointed Broom Sedge	х	х	х	3	
Carex spicata	Spiked Sedge		х		1	
Carex stipata	Owlfruit Sedge		х		1	
Carex stricta	Tussock Sedge	х	х	х	3	
Carex tribuloides	Blunt Broom Sedge		х		1	
Carex vulpinoidea	Fox Sedge	х	х		2	
Carpinus caroliniana	American Hornbeam	х			1	
Caulophyllum thalictroides	Blue Cohosh	х			1	
Centaurea maculosa	Spotted Knapweed	х			1	
Cerastium fontanum	Mouse-ear Chickweed		х		1	
Chamaedaphne cayculata	Leatherleaf	х			1	
Chamerion angustifolium	Fireweed	х			1	
Chelone glabra	Turtlehead	х			1	
Chenopodium album	White Goosefoot	х			1	
Chimaphilla umbellata	Pipsissewa		х		1	EV
Cinna arundinacea	Wood Reed Grass	х			1	
Cinna latifolia	Wood Reedgrass	х			1	
Circaea alpina	Small Enchanter's Nightshade	х			1	
Cirsium arvense	Canada Thistle	х			1	
Cirsium vulgare	Bull Thistle	х			1	
Cladium moriscoides	Twig Rush	х			1	
Claytonia caroliniana	Carolina Springbeauty	х			1	
Clementatis virginiana	Virginia Virgins-Bower	х			1	
Clintonia borealis	Bluebeard	х	х		2	
Convallaria majalis	Lily of the valley			x	1	
Coptis trifolia	Threeleaf Goldthread	x	х	x	3	
Cornus amomum	Silky Dogwood	x	x		2	
Cornus canadensis	Canadian Bunchberry	x	x		2	
Cornus mas	Cornelian Cherry	x			1	
Cornus racemosa	Gray Dogwood	x			1	
Cornus rugosa	Round-Leaved Dogwood	x			1	
Cornus sericea	Red-Osier Dogwood	x			1	
Condus americana	American Hazelnut	~	×		1	
Convlus cornuta	Reaked Hazelnut	v	×		2	
Crataequis sp	Hawthorn	×	~		1	
Dactulis domorata	Orchard Grass	×	×		1	
Dalibarda renens	Pobin Runaway / Dewdron	×	~		2	
		X			1	
Daucus carola		X			1	
Drosora rotundifolia	Pound Looved Sundaw		X		1	
Drusera rolunununa	Round Leaved Sundew		х		1 4	
Dryopteris cannusiana		X			1	
Dryopteris internedia		X			1	
Dryopteris spinulosa			Х		1	ΕV
⊨cninocnioa crusgalli	Barnyard Grass	Х		Х	2	

			June	October	Number of	
		Wetland	2007	2007	Survevs	
Species Name	Common Name	Delineation	Surveys	Surveys	Docmented	Status
Eleocharis acicularis	Least Spikerush	X			1	
Eleocharis obtusa	Blunt spikerush			x	1	
Eleocharis palustris	Common Spikerush		x	x	2	
Elvmus repens	Quack Grass	x			1	
Epilobium coloratum	Purple-Leaf Willow-Herb	x			1	
Epilobium leptophyllum	l inear-l eaf Willow-Herb	x			1	
Epilobium strictum	Downy Willow-Herb	x			1	
Epipactis helleborine	Helleborine	x			1	
Equisetum arvense	Field Horsetail	x	×	×	3	
Equisetum nalustre	Swamp Horsetail	X	x	A	1	
Equisetum sylvaticum	Woodland Horsetail	Y	×		2	
Erigeron annuus	White-Top Fleebane	×	~		1	
Erigeron philadelphicus	Common Elephane	~	×		1	
Eriophorum spissum	Cotton Grass		×		1	
Enophorum spissum Envsimum cheiranthoides	Worm-Seed Wallflower	×	~		1	
Envithronium americanum	Trout Lily Vellow	×			1	
Erythionium americanum Eupatoriadolphus dubium	Fastern Joopyowood	X			1	
	Spotted Joopyowood	X			1	
Eupatonum maculatum	Common Bonocot	X		v	1	
		X		x	2	
	American Baseb	X			1	
Fagus grandiiolia	American Beech	X			1	
Festuca arundinacea	Giant Fescue	X			1	
		X			1	
Fragaria vesca		X			1	
Fragaria virginiana		X			1	
Fraxinus americana	VVNITE ASN	X			1	
Fraxinus pennsylvanica	Green Ash	х			1	
Galium asprelium	Rough Bedstraw	х		х	2	
Galium moliugo		х	x		2	
Galium tinctorium	Stiff Marsh Bedstraw		x		1	
Gaultheria procumbens	Wintergreen	х			1	
Geum canadense	White Avens	х			1	
Glyceria canadensis	Rattlesnake Grass	х		х	2	
Glyceria maxima	Reed Mannagrass	х			1	
Glyceria striata	Fowl Mannagrass	х			1	
Gymnocarpium dryopteris	Oak Fern		х		1	EV
Hamamelis virginiana	Witch Hazel	х	х		2	
Hepatica sp.	Hepatica	х			1	
Hieracium aurantiacum	Devil's Paintbrush	х	х		2	
Hieracium pratense	Hawkweed	х	х		2	
Hordeum vulgare	Common Barley	х			1	
Huperzia lucidula	Shinning clubmoss	х		х	2	EV
Hydrocotyle americana	American Marsh Penny-Wort	х			1	
Hylotelephium telephioides	Allegheny Stonecrop	х			1	
Hypericum boreale	Northern St. Johnswort	х			1	
Hypericum perforatum	Common St. Johns Wort		х		1	
llex mucronata	Catberry / Mountain Holly	х			1	
llex verticillata	Common Winterberry	х			1	
Impatiens capensis	Spotted Touch-Me-Not	х	х		2	
Iris versicolor	Blue Flag	х	х		2	
<i>Isotria</i> sp.	Fiveleaf Orchid	х			1	
Juncus canadensis	Canada Rush	х		х	2	

			June	October	Number of	
Creation Norma	Common Nomo	Wetland	2007 Survovs	2007 Survovs	Surveys	Status
		Denneation	Surveys	Surveys	Docinented	Status
Juncus effusus	Soft Rush	х	Х	Х	3	
Juncus tenuis	Path Rush	Х		x	2	
Juniperus communis	Common Juniper	х			1	
Kalmia angustifolia	Sheep Laurel	Х	х		2	
Lactuca canadensis		Х			1	
Larix larcinia	lamarack	Х	х		2	
Ledum groenlandicum	Bog Labrador Tea	х	х		2	
Ledum palustre	Wild Rosemary		х		1	
Leersia oryzoides	Rice Cutgrass	х			1	
Leersia virginica	Whitegrass	х			1	
Leerzia oryzoides	Ricecut grass			х	1	
<i>Lemna</i> sp.	Duckweed	х			1	
Leontodon autumnalis	Fall Dandelion	х			1	
Leucanthemum vulgare	Oxeye Daisy	х	х		2	
Leucobryum albidum	Cushion Moss		х		1	
Linaria vulgaris	Butter And Eggs	х			1	
Lobelia inflata	Indian-tobacco	х			1	
Lolium perenne	Perennial Ryegrass	х			1	
Lonicera morrowii	Morrow's Honeysuckle	х			1	
Lycopodiella inundata	Northern Bog Clubmoss		х		1	EV
Lycopodium annotinum	Stiff Clubmoss	х			1	EV
Lycopodium clavatum	Running Pine	х			1	EV
Lycopodium dendroideum	Tree clubmoss	х	х		2	EV
Lycopodium obscurum	Ground Pine (Princess Pine)	х	х	х	3	EV
Lycopus uniflorus	Northern Bugleweed	х		х	2	
Lyonia ligustrina	Maleberry		х		1	
Lythrum salicaria	Purple Loosestrife	х			1	
Maianthemum canadense	Canada Mayflower	х	х	x	3	
Maianthemum trifolium	False Lilv of the Vallev		х		1	
Malva moschata	Musk Mallow		x		1	
Malva neglecta	Common Mallow	x			1	
Matricaria chamomilla	Wild Chamomile	x			1	
Matteuccia struthiopteris	Ostrich Fern	x			1	
Medeola virginiana	Indian Cucumber Root	~	x		1	
Medicago sativa	Alfalfa	¥	~		1	
Medicago saliva Melilotus alba	White Sweet Clover	×			1	
Melilotus officinalis	Vellow Sweet Clover	×			1	
Memotas omemans Menthe se	Mint	^		×	1	
Mimulus alatus	Wingod monkov flower			×	1	
Mitchella ropons	Partridgeborry	v		~	1	
Manatropa uniflara	Chaot Bing	X			1	
Muonotio acomicidas	Glost Fipe	X			1	
Myosolis scorpioldes	Common Evening Brimrood	×.	Х		1	
	Common Evening-Primrose	X			1	
	Sensitive Fern	X	X		2	
Osmunda cinnamomea	Cinnamon Fern	X	X	x	3	EV
Osmunda ciaytoniana	Interruptea Fern	X	X		2	
Osmunda regalis		х	х		2	ΕV
Ostrya virginiana	Hop Hornbeam	х			1	
Uxalis corniculata	Creeping Woodsorrel	х			1	
Uxalis montana	Common wood sorrel			х	1	
Panax trifolius	Dwarf Ginseng	х			1	
Panicum clandestinum	Deer-Tongue Grass	х		х	2	

			June	October	Number of	
		Wetland	2007	2007	Surveys	
Species Name	Common Name	Delineation	Surveys	Surveys	Docmented	Status
Parthenocissus quinquefolia	Virginia Creeper	х			1	
Phalaris arundinacea	Reed Canary Grass	х	х	х	3	
Phleum pratense	Timothy	х	х	х	3	
Photinia melanocarpa	Black Chokecherry	х			1	
, Phraamites australis	Common Reed	х			1	
Picea abies	Norway Spruce	х			1	
Picea mariana	Black Spruce	х	x		2	
Picea rubens	Red Spruce	х			1	
Pilea pumila	Canada Clearweed	x			1	
Pinus rigida	Pitch Pine	x			1	
Pinus strobus	Eastern White Pine	x			1	
Pinus sylvestris	Scotch Pine		x		1	
Plantago lanceolata	English Plantain	x			1	
Plantago maior	Common Plantain	x		x	2	
Poa palustris	Fowl Meadow Grass	x			1	
Polygonatum pubescens	Hairy Solomon's Seal	x	x		2	
Polygonum clinode	Bindweed	~	x		1	
Polygonum hydropiper	Marshpepper Smartweed	x	~		1	
Polygonum hydropiperoides	Swamp Smartweed	x			1	
Polygonum lapathifolium	Curlyton Knapweed	x			1	
Polygonum pensylvanicum	Pennsylvania Smartweed	x			1	
Polygonum persicaria	Ladv's Thumb	x			1	
Polygonum sagittatum	Arrow-I eaf Tearthumb	x		x	2	
Polygonum scandens	Climbing False Buckwheat	x		A	1	
Polystichum acrostichoides	Christmas Fern	x	x		2	ΕV
Populus tremuloides	Quaking Aspen	x	~		1	<u> </u>
Potentilla simplex	Common Cinquefoil	x	x		2	
Prunella vulgaris	Common Selfheal	x	x		2	
Prunus pensylvanica	Pin Cherry	x	~		1	
Prunus serotina	Black Cherry	x	x		2	
Prunus virginiana	Choke Cherry	x	x		2	
Pseudotsuga menziessi	Douglas Fir	x	~		1	
Pteridium aquilinum	Bracken Fern	x	x		2	
Pvrus americana	American Mountain Ash	x	A		1	
Pyrus malus	Annle	X			1	
Quercus rubra	Red Oak	x			1	
Ranunculus acris	Tall Buttercup	x	x	x	3	
Ranunculus repens	Creeping Buttercup	x	A	A	1	
Ranunculus septentrionalis	Swamp Buttercup	X	x		1	
Rhinanthus crista-galli	Yellow Rattle		x		1	
Rhododendron viscosum	Swamp Azalea	Y	~		1	
Rhus typhina	Stagborn Sumac	X			1	
Ribes alandulosum	Skunk Currant	X			1	
Rubus allegbeniensis	Allegheny Blackberry	×	×		2	
Rubus hispidus	Bristly Blackberry	×	~		1	
Rubus idaaus	Common Red Raspherry	×			1	
Rubus orarius	Blackberry	×			1	
Rubus nubescens	Dwarf Blackberry	~			1	
Rumey acetosella	Field Sorrel	~	v		2	
Rumey crispus	Curly Dock	~	× v		2	
Sanittaria latifolia	Arrowhead	^	^	v	<u>د</u> 1	
Salix bebbiana	Beak Willow	x		~	1	

VertianalCommon NameDuffineationSurveysSur				June	October	Number of	
Species NameCommon NameDelinationSurveysSurveysDocimentedStatusSalk discolorPussy Willowxx1Salk rapilisCrack Willowxx2Sambucus canadensisAmerican Elderx1Sambucus nigraEuropean Elderberryx1Santcula sp.Black Snakenotxx3Scipus cyperinusWoolgrassxxx3Scipus preprinusBarberpole Bulrushxxx1Solaginela rupestrisNorthem selaginellax11Steps angulatusOneseed Bur Cucumberx11Steps angulatusOneseed Bur Cucumberx11Soladan angustifoliumBladar Campionx11Soladan and Campionx111Soladan and Campionx111Soladan angustifoliumBlue-Eyed Grassx11Soladan angustifoliumBlue-Eyed Grassx11Soladago allassimaTall Goldenrodx11Soladago allassimaTall Goldenrodx11Soladago giganteaLate Goldenrodx12Soladago allassinaTall Goldenrodx12Soladago fispidaHaity Goldenrodx12Sonchus aper Sping-Leal Bow Thistlex12Sonchus aper Sping-Leal Bow Thistlex1 <th></th> <th></th> <th>Wetland</th> <th>2007</th> <th>2007</th> <th>Surveys</th> <th>.</th>			Wetland	2007	2007	Surveys	.
Salix discolorPussy Willowx1Salix fragilisCrack Willowxx2Sarbucza sericanSilky Willowxx2Sambucz andensisAmerican Elderx1Sambucz andensisEuropean Elderberryx1Sarbucz sericanGreen Elurishxxx3Scipus atroviensGreen Elurishxxx3Scipus proteinusWoolgrassxxx3Scipus atroviensBarberolo Bulrushxxx1Sienecio Sp.Ragwortx11Siene atroviensBader Campionx1Siene atroviensPaesed Burr Cucumberx1Siene atroviensCampionx1Siniacina trofiaBlader Campionx1Solidago atradensisCanada Goldenrodx1Solidago atradensisCanada Goldenrodx1Solidago rugosaRough-Sternmed Goldenrodx1Solidago rugosaRough-Sternmed Goldenrodx1Solidago rugosaRough-Sternmed Goldenrodx1Solidago rugosaRough-Sternmed Goldenrodx1Solidago rugosaRough-Sternmed Goldenrodx2Sprinae atrofiaBrad-Leal Meadowsweetxx2Sprinae atrofiaSteepe-Bushx1Solidago rugosaSteepe-Bushx1Sprinae atrofiaSteepe-Bush	Species Name	Common Name	Delineation	Surveys	Surveys	Docmented	Status
Salk regilsCrack Willowxx1Salk sericeaSilky Willowxx1Sambucus canadensisAmerican Elderx1Sambucus figraEuropean Elderberryx1Sanbucus figraEuropean Elderberryxx3Scirpus openinusGreen Bulrushxxx3Scirpus openinusWoolgrassxxx3Scirpus openinusBarberpole Bulrushxxx1Seleginelia rupestrisNorthern selagineliax11Senoto sp.Ragvortx11Steps angulatusOneseed Burr Cucumberx11Silene latifoliaBlader Campionx11Silena racemosaFalse Solomon's Sealx11Soldago atlassimaTall Goldenrodx11Soldago atlassimaTall Goldenrodx11Soldago ruposaRough-Stemmed Goldenrodx11Soldago ruposaRough-Stemmed Goldenrodx11Sonchus asperSping-Laif Mountain Ashx22Spirganum sp.Sphagnum Mousaxx22Spirganum sp.Sphagnum Mousaxx22Spirgaganium americanumLesser Burreedxx22Spirgaganium americanumLesser Burreedxx22Spirgea tabaNarrow-Laif	Salix discolor	Pussy Willow		Х		1	
Salk serviceSalk y Wilowxxx2Sambucs nigraEuropean Elderberryx1Sambucs nigraEuropean Elderberryx1Sanicula sp.Black SnakerootxxxxScipus sirovirensGreen Bulrushxxxx3Scipus siroroarpusBarberpole Bulrushxxxx3Scipus microarpusBarberpole Bulrushxxx1Scipus microarpusBarberpole Bulrushxxx1Scipus microarpusBarberpole Bulrushxx1Scipus microarpusBarberpole Bulrushxx1Scipus microarpusBarber Campionx11Scipus microarpusBarber Campionx11Scipus microarpusBarber Campionx11Scipus microarpusBule-Eyed Grassx11Solidago anistinaTall Goldenrodx11Solidago giantaLate Goldenrodx11Solidago giantaLate Goldenrodxx22Sonchus asperSpinyu-Lad Sow Thistlex11Sorbus anericanaAmerican Mountain Ashxx22Spinaea atmonesSteeple-Bushxx22Spinaea atmonesSteeple-Bushxx22Spinaea atmonesSulta Stanvortx12 <td>Salix fragilis</td> <td>Crack Willow</td> <td>х</td> <td></td> <td></td> <td>1</td> <td></td>	Salix fragilis	Crack Willow	х			1	
Sambucus canadensisAmerican Elderx1Sambucus rigraEuropan Elderborryx1Sambucus rigraGreen Bultushxxx3Scipus sportnusWoolgrassxxx3Scipus sportnusBarberpole Bultushxxx3Scipus sportnusBarberpole Bultushxx1Selaginela rupestrisNorthern selaginellax1Storpus grupatusOnescel Burr Cucumberx1Siene latifoliaBlader Campionx1Siene latifoliaBlader Campionx1Sinilacina tradeamosaFalle Solomoris Sealx1Solanur dulcararaClimbing Nightshadex1Solidago alissimaTall Goldenrodx1Solidago giganteaLate Goldenrodx1Solidago giganteaLate Goldenrodx1Solidago grupasRough-Stemmed Goldenrodx1Solidago rupasSpiny-Leal Sow Thistlex1Sorbus asperSpiny-Leal Madowswetxx2Spiraea latifoliaBradel-All Madowswetx1Spiraea latifoliaBradel-All Madowswetx1Spiraea latifoliaBradel-All Madowswetx1Spiraea latifoliaBradel-All Madowswetx2Spiraea latifoliaBradel-All Madowswetx2Spiraea latifoliaBradel-All Madowswetx1Spiraea	Salix sericea	Silky Willow	х	х		2	
Sambucs nigraEuropean Elderberryx1Scinpus atrovirensBlack SnakerootxxxxScirpus atrovirensGreen Bulrushxxxx3Scirpus sirrorapusBarberpole Bulrushxxx1Selaginella rupestrisNorthern selaginellaxx1Sirone sirrorapusBarberpole Bulrushxx1Selaginella rupestrisNorthern selaginellax1Sirone sirrorapusBlader Campionx1Sirone and supportx11Sirone and supportx11Sirine latifoliaBlader Campionx1Sirine latifoliaThree-leaved Solomon's Sealx1Solidago altissimaTall Goldenrodx1Solidago giganteaLate Goldenrodx1Solidago giganteaLate Goldenrodx1Solidago ruposaRough-Stemmed Goldenrodxx2Sonchus asperSping-Leaf Sow Thistlexx2Sparganium seitarumLease Bureedxx2Spiraea latifoliaBrack-Leaf Muchain Ashx1Sonchus asperSpingham Mossxx2Spiraea latifoliaBrack-Leaf Muchain Ashx1Sonchus asperSpingham Mossxx2Spiraea latifoliaBrack-Leaf Muchain Ashx1Spiraea latifoliaBrack-Leaf Machawsweet <td>Sambucus canadensis</td> <td>American Elder</td> <td>х</td> <td></td> <td></td> <td>1</td> <td></td>	Sambucus canadensis	American Elder	х			1	
Sanicula sp.Black Snakerootxxx <td>Sambucus nigra</td> <td>European Elderberry</td> <td>х</td> <td></td> <td></td> <td>1</td> <td></td>	Sambucus nigra	European Elderberry	х			1	
Scirpus atrovirensGreen Bulrushxxxxx3Scirpus preionusWoolgressxxx1Scirpus microcarpusBarberpole Bulrushxx1Scispa sinutationusNorthern selaginellax1Sicyos anguilatusOneseed Bur Cucumberx1Sicyos anguilatusBlader Campionx1Sirpinacinar acemosaFalse Sciomon's Sealx1Sinilacina trifoliaThree-leaved Sciomon's Sealx1Solidago anadensisCanada Goldenrodx1Solidago giganteaLate Goldenrodx1Solidago giganteaLate Goldenrodx1Sonchus aperSpiny-Leat Sow Thistlex1Sonchus aperSpiny-Leat Sow Thistlex1Sorbus americanaAmerican Mountain Ashx2Spiraea latifoliaBarou-Leaf Meadowsweetx1Spiraea latifoliaGrasslike Starwortx1Spiraea latifoliaBrace-Leaf Meadowsw	Sanicula sp.	Black Snakeroot	х			1	
Scirpus sciperinusWoolgrassxxxx3Scirpus microcarpusBarberole Bulrushxx1Selaginella rupestrisNorthern selaginellax1Senedio sp.Ragwortx1Scirpus angulatusOneseede Bur Cucumberx1Silene latifoliaBladder Campionx1Silene latifoliaBladder Campionx1Silene latifoliaThree-leaved Solomon's Sealx1Solianus dulcamaraClinbing Nightshadex1Solidago altissimaTall Goldenrodx1Solidago giganteaLate Goldenrodx1Solidago giganteaLate Goldenrodx1Solidago fispidaHairy Goldenrodx1Solidago fispidaGomon Sowthistlex1Solidago nipsidaAmerican Mountain Ashx1Sorbus americanaAmerican Mountain Ashx2Spiraea latifoliaBroad-Leaf Meadowsweetxx2Spiraea latifoliaBroad-Leaf Meadowsweetx1Symphyotirchum novi-belgiNew York asterx1Symphoptins appleSplagnum Mossxx1Symphyotirchum novi-belgiNew York asterx1Symphyotirchum novi-belgiNew York asterx1Symphyotirchum novi-belgiNew York asterx1Symphyotirchum novi-belgiNew York asterx1Symphy	Scirpus atrovirens	Green Bulrush	х	х	х	3	
Scirpus microcarpusBarberpole BulrushxxxzSelaginella uppestrisNorthern selaginellax1Selaginella uppestrisOneseed Burr Qucumberx1Sicyos angulatusOneseed Burr Qucumberx1Sizyos angulatusBladeter Campionx1Sisyinchium angustifoliumBlue-Eyed Grassx1Sinalacina trifoliaThree-leaved Solomon's Sealx1Solidago alissimaTall Goldenrodx1Solidago gianetaCanada Goldenrodx1Solidago gianetaLate Goldenrodx1Solidago gianetaLate Goldenrodx1Solidago gianetaLate Goldenrodx1Solidago gianetaLate Goldenrodx1Solidago gianetaLate Goldenrodx1Solidago gianetaLate Goldenrodx1Sonchus asperSiny-Leaf Noor Thistlex1Sonchus aleraceusCommon Sowthistlex1Sonchus aleraceusStenpel-Bushx1Spiraea alafaMarcu-Leaf Meadowsweetx1Symphyotrichum novae-angliaeSteny-Leaf Meadowsweetx1Symphyotrichum novae-angliaeCaraschu Marcux1Symphyotrichum novae-angliaeNarou-Leaf Meadowsweetx1Symphyotrichum novae-angliaeNarou-Leaf Meadowsweetx1Symphyotrichum novae-angliaeNew York Fernxx2<	Scirpus cyperinus	Woolgrass	х	х	х	3	
Selaginella rupestrisNorthem selaginellax1Sienecio sp.Ragwortx1Sicyos angulatusOneseed Burr Cucumberx1Silene latifoliaBladder Campionx1Silene latifoliaBladder Campionx1Silencian racemosaFalse Solomon's Sealx1Silanua dulcanaraClimbing Nightshadex1Soldago altissimaTall Goldenrodx1Soldago giganeaLate Goldenrodx1Soldago giganeaLate Goldenrodx1Soldago rugosaRough-Sternmed Goldenrodx1Soldago rugosaRough-Sternmed Goldenrodx1Sonchus asperSpiny-Leal Sow Thisitex1Sonchus asperSpiny-Leal Sow Thisitex1Spraea albaAmerican Mountain Ashx1Spiraea altifoliaBroak-Leaf Meadowsweetxx2Spiraea altifoliaBroak-Leaf Meadowsweetxx1Stellaria gramineaGrasslike Starwortxx1Symphoytrichum nova-englieeNew York asterxx2Symphoytrichum nova-englieeNew York asterxx2Thelypteris simulataMassachusetts Fern / Bog Fernxx2Symphoytrichum nova-englieeNew York Sernx2EVThelypteris simulataMassachusetts Fern / Bog Fernxx2EVThelypteris palustris <td>Scirpus microcarpus</td> <td>Barberpole Bulrush</td> <td>х</td> <td>х</td> <td></td> <td>2</td> <td></td>	Scirpus microcarpus	Barberpole Bulrush	х	х		2	
Senecio sp.Ragwortx1Sicyos angulatusOneseed Burr Cucumberx1Silene latifoliaBlader Campionx1Sixprinchium angustifoliumBlue-Eyed Grassx1Silene latifoliaThree-leaved Solomon's Sealx1Solidargo atlissimaTalle Goldenrodx1Solidago giganteaClimbing Nightshadex1Solidago giganteaLate Goldenrodx1Solidago giganteaLate Goldenrodx1Solidago rugosaRough-Stemmed Goldenrodx1Sonchus asperSpiny-Leaf Sow Thistlex1Sonchus asperCommon Sowthistlex1Sorbas americanaAmerican Mountain Ashx1Spiraea atlifoliaBrad-Leaf Meadowsweetx2Spiraea atlifoliaBrad-Leaf Meadowsweetx1Spiraea talifoliaBrad-Leaf Meadowsweetx1Symphyotrichum novae-angliaeNew England asterx1Symphyotrichum novae-angliaeNew York asterx1Symphyotrichum novae-angliaeNew York Fernxx2Theilytteris salutataMaschusetts Fern / Bog Fernx2EVTheilytteris palustrisEastern Marsh Fernx2EVTheilytteris palustrisEastern Marsh Fernx2EVTheilytteris palustrisEastern Marsh Fernx2EVTheilytteris palustrisEastern Marsh	Selaginella rupestris	Northern selaginella			х	1	
Sicyos angulatusOneseed Burr Cucumberx1Siseriactium angustifoliumBlue-Eyed Grassx1Siseriactium angustifoliumBlue-Eyed Grassx1Sinilacian irfoliaThree-leaved Solomon's Sealx1Solanum ducamaraClimbing Nightshadex1Solidago attissimaTall Goldenrodx1Solidago canadensisCanada Goldenrodx1Solidago canadensisCanada Goldenrodx1Solidago canadensisCanada Goldenrodx1Solidago rugosaRough-Stemmed Goldenrodxx2Solidago rugosaRough-Stemmed Goldenrodxx1Solidago rugosaRough-Stemmed Goldenrodxx2Sonchus oleraceusCommon Sowthistlexx1Sonchus aperSpiny-Leaf Sow Thistlexx1Sondago niganum americanumLesser Burreedxx2Spiraea altoliaBrad-Leaf Meadowsweetxx2Spiraea altoliaBrad-Leaf Meadowsweetxx1Symphytotrichum novae-angliaeNew York asterx1Symphoterichum novi-belgiiNew York asterx1Symphytorishum sp.Shaganum Arsh Sealxx2Symphytorishum novi-belgiiNew York asterx1Symphytorichum nove-angliaeNew York asterx2EVThelypteris navenseTall Madow Ruexx <td>Senecio sp.</td> <td>Ragwort</td> <td></td> <td></td> <td>х</td> <td>1</td> <td></td>	Senecio sp.	Ragwort			х	1	
Silence latifoliaBladder Campionx1Sisyrinchium angustifoliumBlue-Eyed Grassx1Sisyrinchium angustifoliumBlue-Eyed Grassx1Smilacina racemosaFalse Solomon's Sealx1Smilacina racemosaClinbing Nightshadex1Solidago altissimaTall Goldenrodx1Solidago gianteaLate Goldenrodx1Solidago gianteaLate Goldenrodx1Solidago gianteaLate Goldenrodx1Solidago nigoraRough-Stemmed Goldenrodx2Sonchus asperSpiny-Leaf Sow Thistlex1Sonchus asperCommon Sowthistlex1Sorbus americanumLesser Burreedxx2Spiraea latifoliaBroad-Leaf Meadowsweetxx2Spiraea latifoliaBroad-Leaf Meadowsweetx1Symphybrichum novae-angliaeNew England asterx1Symphybrichum novi-belgiNew York asterx1Symphybris potedusSkunk Cabbagex1Symphybris potedusSater Strawer1EVThalseconesisNew York Sternx2EVSymphybris potedusSteeple-Bushx1EVSymphybris potedusSkunk Cabbagex1EVThalseconesisNew York Sternx2EVTheypteris palustrisEastern Marsh Fernxx2EV	Sicyos angulatus	Oneseed Burr Cucumber	х			1	
Sikyrinchium angustifolium Smilacina racemosaBlue-Eyed Grassx1Smilacina racemosaFalse Solomon's Sealx1Solina ratifoliaThree-leaved Solomon's Sealx1Solidago attissimaTall Goldenrodx1Solidago canadensisCanada Goldenrodx1Solidago giganteaLate Goldenrodx1Solidago nigosaRough-Stermend Goldenrodx1Solidago nigosaRough-Stermend Goldenrodxx2Sonchus oleracusCommon Sowthistlexx1Sorbus americanaAmerican Mountain Ashxx2Spiraea albaNarrow-Leaf Meadowsweetxx2Spiraea albaNarrow-Leaf Meadowsweetxx1Symphyotirchum novise-angliaeNarrow-Leaf Meadowsweetxx1Symphotirchum novise-angliaeSkunk Cabbagexx1Symphyotirchum novise-angliaeNarrow Termxx1Symphyotirchum noviseSkunk Cabbagex11Symphyotirchum novisenisNew York asterx11Symphyotirchum noviseTall Meadow Ruexx11Symphyotirchum novisenisNew York asterx11Symphyotirchum noviseSkunk Cabbagexx11Symphyotirchum novisenisNew York Sterx11Symphyotirchum noviseSkunk Cabbagexx	Silene latifolia	Bladder Campion		х		1	
Smilacina racemosaFalse Sciomon's Sealx1Smilacina trifoliaThree-leaved Solomon's Sealx1Solinum dulcamaraClimbing Nightshadex1Solidago altissimaTall Goldenrodx1Solidago gigantaLate Goldenrodx1Solidago gigantaLate Goldenrodx1Solidago gigantaHairy Goldenrodx1Solidago rugosaRough-Stemmed Goldenrodx1Sonchus asperSpiny-Leaf Sow Thistlex1Sonchus asperSpiny-Leaf Sow Thistlex1Sorbus americanaAmerican Mountain Ashx1Sorbus arnericanaAmerican Mountain Ashx2Spiraea altifoliaBroak-Leaf Meadowsweetxx2Spiraea altifoliaBroak-Leaf Meadowsweetx1Symphyotrichum novae-argliaeNarrow-Leaf Meadowsweetx1Symphyotrichum novae-argliaeNew York asterx1Symphyotrichum novae-argliaeNew York asterx1Symphyotrichum novae-argliaeNew York asterx1Symphyotrichum novae-argliaeNew York Fernxx2Virblypetris moveboracensisNew York Fernxx2Thelypteris moveboracensisNew York Fernxx2Thelypteris simulataMassachusetts Fern / Bog Fernxx2Thelypteris simulataAmerican Basswool / Lindenx1Tria	Sisyrinchium angustifolium	Blue-Eyed Grass		х		1	
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Tillia americanaAmerican Basswood / Lindenx1Triagopogon porrifoliusSalsifyx1Triadenum virginicumVirginia Marsh St. Johnswortx1Trientalis borealisStarflowerxx3Trifolium arvenseRabbitfoot Cloverx1Trifolium campestreClover, Hopx1	Tiarella cordifolia	Foamflower	x	~		- 1	
Triagopogon porrifoliusSalsifyx1Triadenum virginicumVirginia Marsh St. Johnswortx1Trientalis borealisStarflowerxx3Trifolium arvenseRabbitfoot Cloverx1Trifolium campestreClover, Hopx1	Tilia americana	American Basswood / Linden	x			1	
Triadepuised virginicumVirginia Marsh St. Johnswortx1Trientalis borealisStarflowerxxxTrifolium arvenseRabbitfoot Cloverx1Trifolium campestreClover, Hopx1	Tragopogon porrifolius	Salsify	A	x		1	
Trientalis borealisStarflowerxxx3Trifolium arvenseRabbitfoot Cloverx1Trifolium campestreClover, Hopx1	Triadenum virginicum	Virginia Marsh St. Johnswort	x	~		1	
Trifolium arvenseRabbitfoot Cloverx1Trifolium campestreClover, Hopx1	Trientalis horealis	Starflower	×	×	×	3	
Trifolium campestreClover, Hopx1	Trifolium arvense	Rabbitfoot Clover	x	~	~	1	
	Trifolium campestre	Clover Hop	~	Y		1	
Trifolium dubium Least Hop Clover x 1	Trifolium dubium	Least Hon Clover	Y	^		1	
Trifolium hybridum Alsike Clover v v 2	Trifolium hybridum	Alsike Clover	~ ~	v		2	
Trifolium natense Red Clover v v v 3	Trifolium pratense	Red Clover	~ ~	× v	v	2	
Trifolium repens White Clover x 1	Trifolium repens	White Clover	x	~	~	1	

			June	October	Number of	
Creation Norma	Common Nomo	<i>Wetland</i>	2007	2007	Surveys	Status
Species Name	Common Name	Denneation	Surveys	Surveys	Docinemed	Status
Trillium undulatum	Painted Trillium	х	х		2	EV
Tsuga canadensis	Hemlock	х			1	
Tussilago farfara	Coltsfoot	х			1	
Typha angustifolia	Narrowleaf Cattail	х	х	х	3	
Typha latifolia	Broad-Leaf Cattail	х			1	
Ulmus americana	American Elm	х			1	
Ulmus rubra	Slippery Elm	х			1	
Uvularia perfoliatum	Perfoliate Bellwort	х			1	
Vaccinium angustifolium	Lowbush Blueberry	х	х		2	
Vaccinium corymbosum	Highbush Blueberry	х			1	
Vaccinium macrocarpon	Cranberry		х		1	
Vaccinium myrtilloides	Velvetleaf Huckleberry	х			1	
Veratrum viride	Green False Hellebore	х	х		2	
Verbascum thapsus	Common Mullein	х			1	
Veronica officinalis	Common Speedwell		х		1	
Viburnum cassinoides	Withe-rod	х	х		2	
Viburnum lantanoides	Hobblebush	х			1	
Viburnum lentago	Nannyberry	х			1	
Viburnum nudum	Possumhaw Viburnum	х			1	
Viburnum rhytidophyllum	Leatherleaf	х			1	
Viburnum trilobum	American Cranberrybush	х			1	
Vicia cracca	Cow Vetch	х	х		2	
Viola canadensis	Canada Violet	х			1	
Viola triloba	Three Leaved Violet		х		1	
Vitis riparia	Riverbank Grape	х			1	
Number of Species Identified during Survey		278	124	48		



