

VT AOT

Chittenden County Circumferential Highway

Essex Junction

File No.: 199011150

City and State: Essex Junction, VT

General Impacts:

- 20.2 acres other
- 3.4 acres PEM meadow and marsh
- 13 acres PEM hayfield
- 2.6 acres PFO
- 1.2 acres PSS

Functions and Values Lost:

- Groundwater
- Floodflow Alteration
- Sediment Retention
- Nutrient Retention
- Shore Stabilization
- Wildlife Habitat

Year(s) Mitigation Constructed: October 1992

Size and Type of Mitigation as Proposed: Mitigation site plus 30 acres upland preservation

Proposed Functions and Values of Mitigation:

- Floodflow Alteration
- Nutrient Removal
- Wildlife Habitat

Mitigation Special Condition(s):

5. The mitigation site depicted on the plans titled "Vermont Route 289 – Williston Colchester PB033-1(1)" in 7 sheets numbered 101 through 107 and "Boundary Survey" revised "20 July 1989" and the plot survey of a 30 acre upland buffer area/travel corridor shall be subject to a conservation easement. Such conservation easement shall ensure that the mitigation sites are preserved in perpetuity. Acquisition of the mitigation sites are granting of the conservation easement shall be completed prior to any fill being discharged into wetlands or waters of the project site. Documentary evidence sufficient to establish the completed acquisition of the mitigation site and granting of the conservation easement shall be furnished to the Corps prior to any fill being discharged

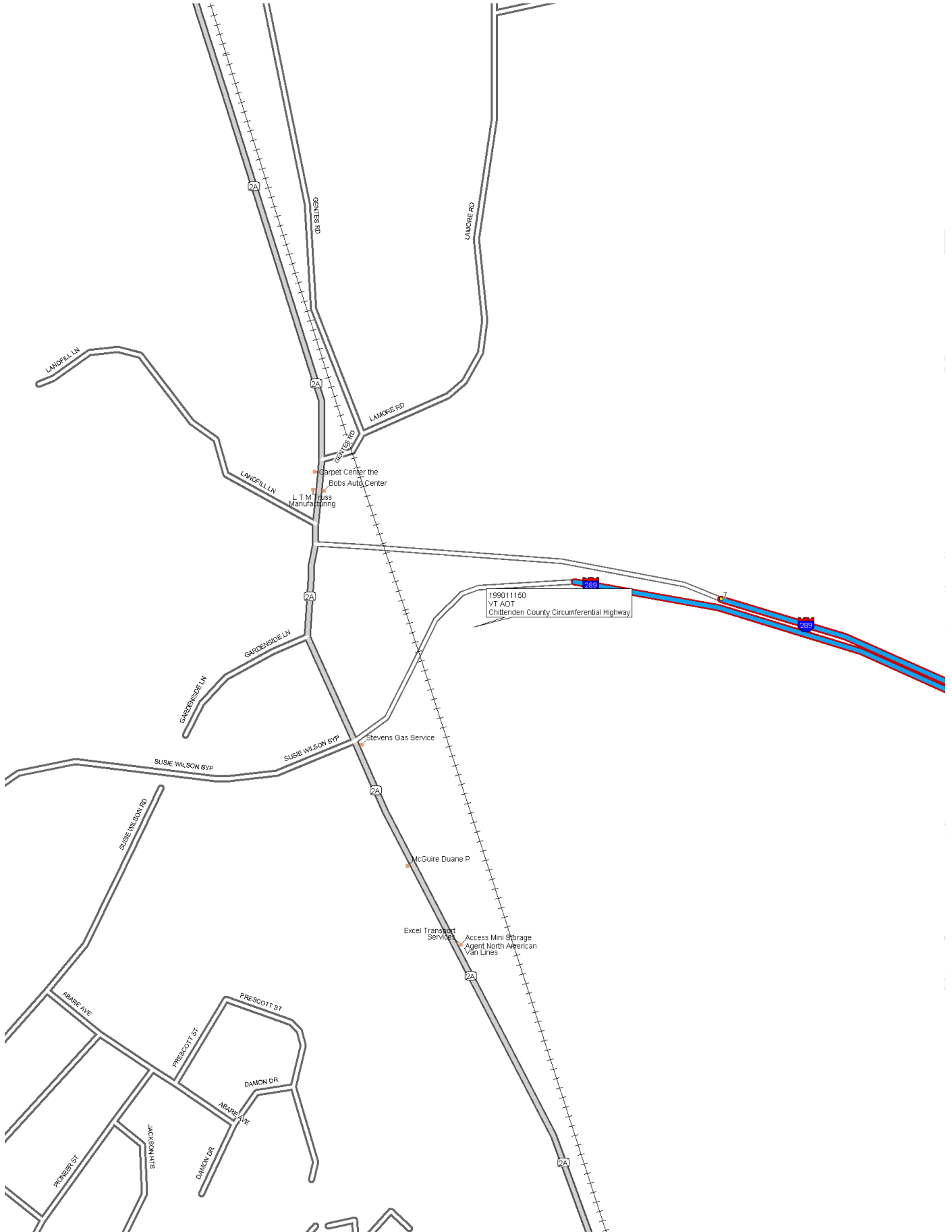
into wetlands or waters on the Segment II project site. The state (including the VT AOT or VT Agency of Natural Resources) or federal agency or a non-profit conservation organization.

Remarks:

None

Directions:

Take 128/95 north to Route 3 north. Take exit 32B/32A towards Lowell/Nashua, NH staying on Route 3 north. Stay straight to go onto Frederick E. Everett Turnpike. It becomes I-93 north. Take I-89 north towards Lebanon/White River Junction, VT. Keep right merging onto I-89 north. Take exit 15, VT-15 towards Winooski/Essex Junction. Keep left at the fork in the ramp. Turn right onto VT-15 east. Turn left onto Susie Wilson Road. It becomes Susie Wilson Bypass. Turn left onto VT-2A.





MITIGATION SITE FIELD DATA FORM

Site Name: VT AOT CCCH - Essex Junction File No. 199011150

City/Town: Essex Junction State: VT Waterbody:

Monitor(s): Paul Minkin, Keith Wright Date: 8-19-02

Was site constructed? yes

Is site wetland? yes

Size of proposed wetland: TBD

Actual size of wetland: TBD

Lat/Long Points: 44.51539N 73.12027W

Saved GPS Waypoint name: EJ90

GPS Tracking Log Name: N/A

Perimeter: TBD

Surrounding land use:

Railroad, highway, upland forest

Is wetland function compromised by
surrounding land use?

Stormwater may bring pollutants into wetland.
The transportation corridors diminish wildlife
habitat.

Plant health:

Vigorous

Invasive species:

Phalaris arundinacea

Wildlife use:

Beaver lodge, green frogs, deer tracks

Plants:

Asclepias incarnata

Asteraceae sp.

Carex lurida

Carex sp.

Carex sp. (ovales)

Carex vulpinoidea

Cyperus strigosus

Eupatorium fistulosum

Euthamia graminifolia

Galium sp.

Glyceria sp.

Ilex verticillata

Impatiens capensis

Ipomoea sp.

Juncus effusus

Leersia oryzoides

Lemnaceae sp.

Lycopus sp.

Onoclea sensibilis

Phalaris arundinacea

Polygonum sagittatum

Potamogeton sp.

Rubus sp.

Sagittaria latifolia

Scirpus cyperinus

Scirpus microcarpus

Scirpus validus

Soldiago sp.

Spaganium sp.

Spiraea latifolia

Trifolium repens

Typha latifolia

Verbena hastata

Vicia sp.

Soils Data:

Soil examination revealed low chroma colors (10YR3/1) down to a foot in depth with redox features (10YR 6/6) found at 3 inches.

Sketch approximate mitigation site, noting areas and types of wetlands, waters, other features, landscape position, landmarks, etc., and data and photo point(s)

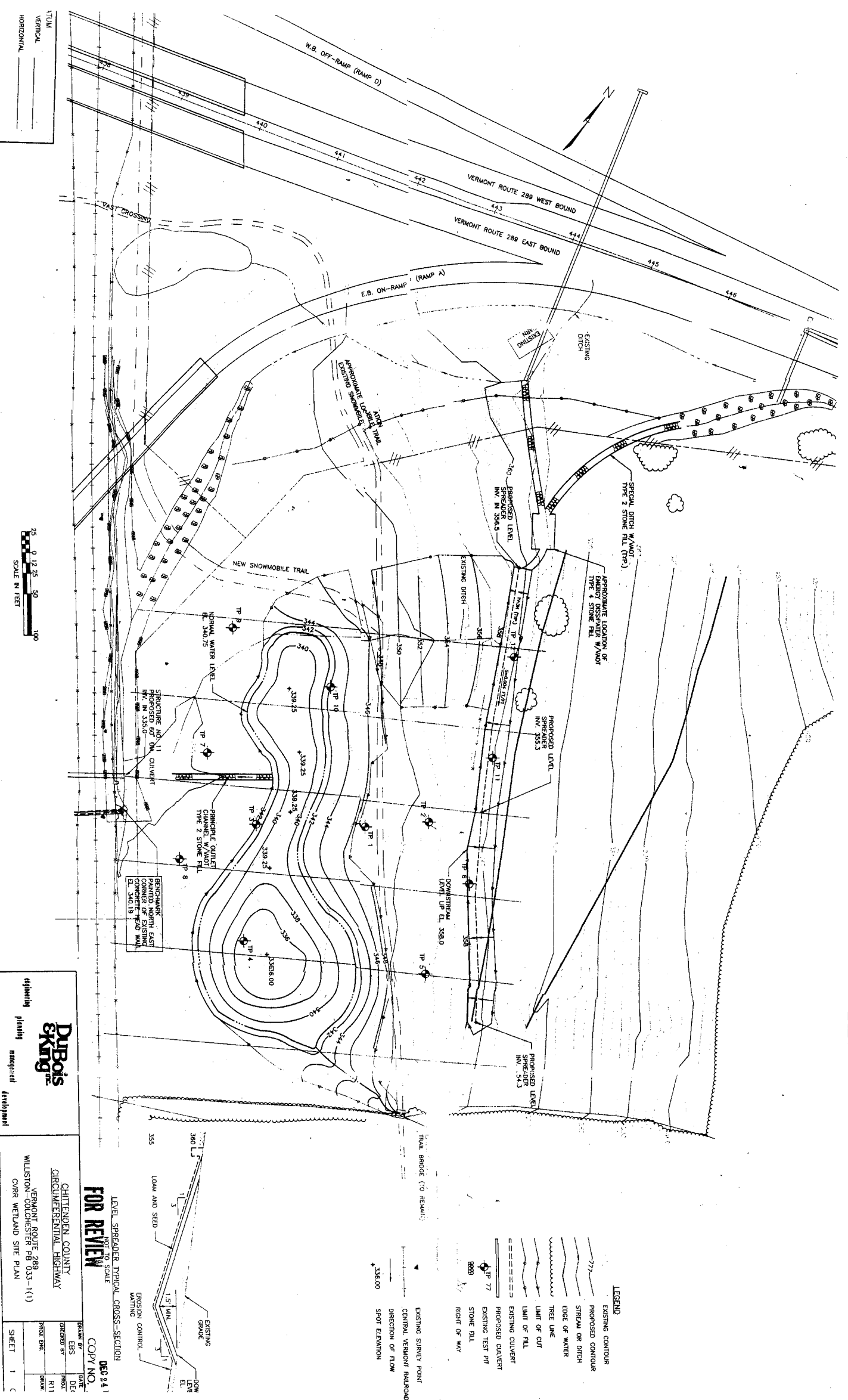
See file.

Overall Description of site:

The site was quite wet even in drought. It consists of a large basin that is surrounded by a wetland fringe. An overwhelmingly strong sulfidic odor emanates from footsteps made along the shoreline. Vegetation is quite thick. A gate behind the gas company was used to access the site, which is surrounded by a fence.

Comments, problems, recommendations:

None



DUBOIS
SKING
OF
CHITTENDEN COUNTY
CIRCUMFERENTIAL HIGHWAY

VERMONT ROUTE 288
WILLISTON-DOLCHESTER PB 033-(11)
CARR WETLAND SITE PLAN

EBS	DE
CHECKED BY	PLOT
	R11
PROD ENG.	DATE
SHEET	1 C

engineering planning management development

Wetland Function-Value Evaluation Form

Total area of wetland 9.18 ac Human made? yes Is wetland part of a wildlife corridor? yes or a "habitat island"? no

Adjacent land use upland forest, railroad Distance to nearest roadway or other development 20 feet

Dominant wetland systems present PEM, POW Contiguous undeveloped buffer zone present 60%

Is the wetland a separate hydraulic system? yes If not, where does the wetland lie in the drainage basin? _____

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

199011150, VTAOT CCH

Wetland I.D. Essex Junction/Segment 2

Latitude 44.51539N Longitude 73.12027W

Prepared by: PM Date 8-19-02

Wetland Impact:













Type _____ Area _____

Evaluation based on:

Office _____ Field X

Corps manual wetland delineation

completed? Y _____ N X

Function/Value	Suitability Y N		Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
 Groundwater Recharge/Discharge					unknown
 Floodflow Alteration	X		3,6,8,9		dense vegetation surrounding open water
 Fish and Shellfish Habitat		X			shallow open water may support some warm water fish
 Sediment/Toxicant Retention	X		1,2,3,9	X	downslope of railroad and highway
 Nutrient Removal	X		2,3,4,5,8,9,10	X	dense vegetation surrounding open water
 Production Export	X		2,4,7		wildlife food, extremely limited
 Sediment/Shoreline Stabilization	X		3,7,12		dense vegetation surrounding open water
 Wildlife Habitat	X		3,5,7,8,11,12,13,17,19		beaver lodge, green frogs, deer tracks, birds
 Recreation		X			access to site difficult
 Educational/Scientific Value		X			
 Uniqueness/Heritage		X			
 Visual Quality/Aesthetics		X			
ES Endangered Species Habitat		X			none known at site
Other					

Notes:

* Refer to backup list of numbered considerations.

199011150
VTAOT CCCH Essex Junction
Essex Junction, VT
8/19/02



Photo looking southwest from beyond northeast corner of site

USGS 8 km NE of Burlington, Vermont, United States 25 Apr 1999



0 100M

0 100yd

Image courtesy of the U.S. Geological Survey
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