

Robert Thibeault

File No.: 199701820

City and State: Highgate Springs, VT

General Impacts: 0.24 acre forested/emergent

Functions and Values Lost: (From EA/SOF)

Floodflow Alteration

Wildlife Habitat

Year(s) Mitigation Constructed: December 1999

Size and Type of Mitigation as Proposed: 0.45 acre

Proposed Functions and Values of Mitigation: (From EA/SOF)

Floodflow Alteration

Wildlife Habitat

Mitigation Special Condition(s):

c. Mitigation shall be accomplished in accordance with sheets 2 and 3 of the permit plans.

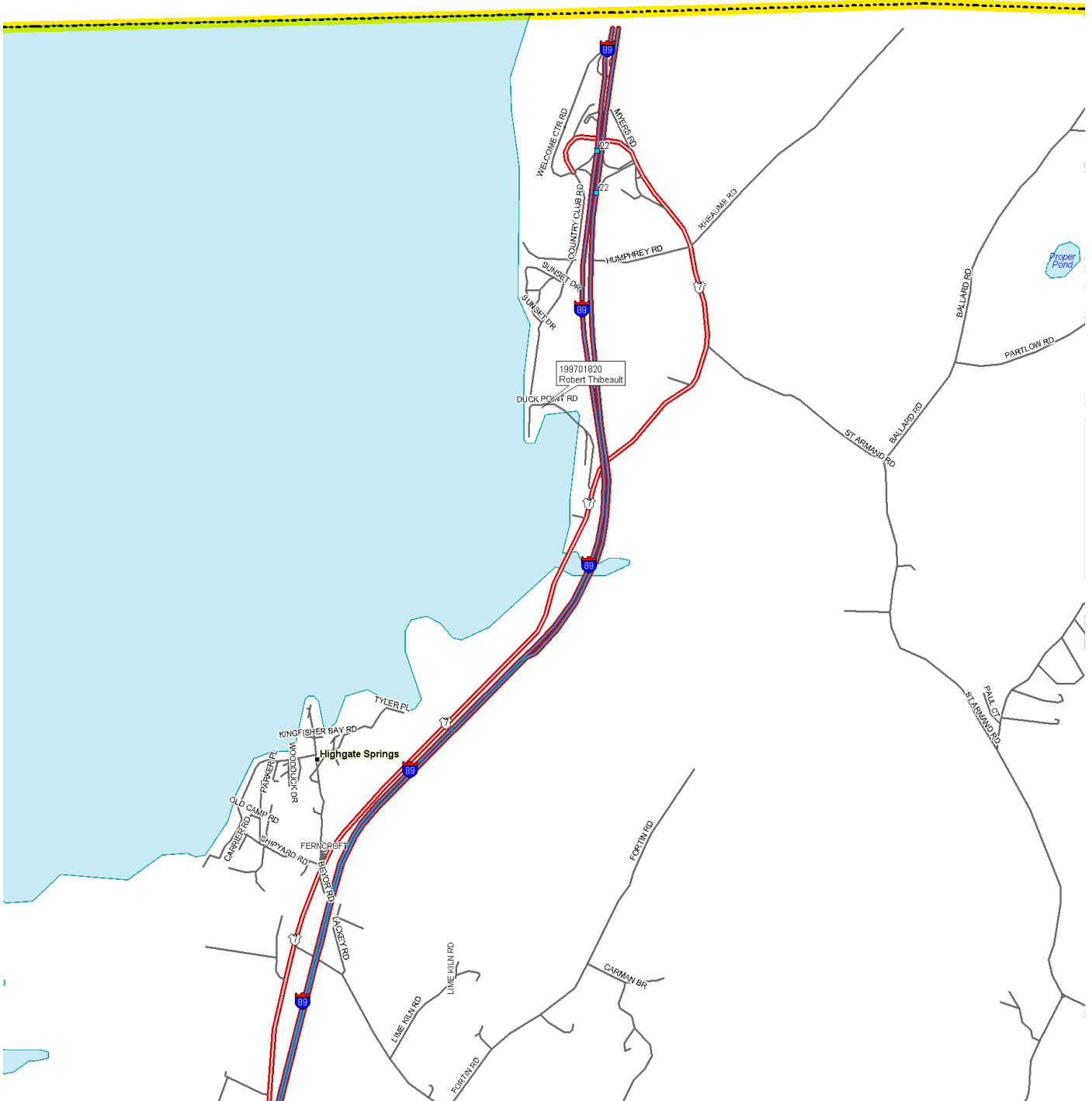
d. The goal of the mitigation shall be to compensate for the loss of the wildlife habitat function that the wetland impacted provided and to not restrict the flood storage capability of the remaining wetland by the removal of the old roadway down to the wetland elevation and planting a 0.45 acre area with native wetland species and with the installation of six culverts in the new roadway.

Remarks:

None

Directions:

Take 128/95 north. Take exit 32B/32A, US-3 north, Middlesex Turnpike towards Lowell/Nashua, NH. Stay straight to go onto Frederick Everett Turnpike. The Frederick Everett Turnpike becomes I-93m north. Take the I-89 north exit towards Lebanon/White River Junction. Take exit 21, VT-78 west, bearing left off the exit. Go about five miles. Take a right onto VT-7. The site is located on Duck Point Road (private road). It's on the left on the west side of VT-7.





MITIGATION SITE FIELD DATA FORM

Site Name: Robert Thibeault **File No.** 199701820
City/Town: High Gate Spring **State:** VT **Waterbody:** Lake Champlain
Monitor(s): Keith Wright, Paul Minkin, Mike Adams **Date:** 8-20-02

Was site constructed? yes

Is site wetland? yes

Size of proposed wetland: 0.48 acre

Actual size of wetland: TBD

Landscape position: TBD

Lat/Long Points: 44.99616N 73.08787W

Saved GPS Waypoint name: THI

GPS Tracking Log Name: N/A

Perimeter: TBD

Surrounding land use:

Lawn, forested wetland

Is wetland function compromised by surrounding land use?

Yes; wetland vegetation was not growing in the areas that were being mowed.

Plant health:

Good in the small area of the site that had not been mowed.

Invasive species:

Lythrum salicaria

Wildlife use:

Leopard frogs, gartersnake

Plants:

Acer rubrum

Asteraceae sp.

Bidens sp.

Equisetum sp.

Galium sp.

Lycopus virginicus

Lythrum salicaria

Onoclea sensibilis

Poaceae sp.

Scirpus atrovirens

Scirpus cyperinus

Scutellaria sp.

Typha latifolia

Vicia sp.

Soils Data:

Although the area has been restored, there is still fill: a buried A horizon was found 8 inches below the surface.

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 is a floodwater area for Lake Champlain. It used to be a roadway. A small section close to the road contains wetland vegetation but the rest of the site is a mowed lawn with rows of *Acer rubrum* seedlings.

Comments, problems, recommendations:

With the exception of floodwater retention, this site has limited value, especially as wildlife habitat. Future permits should stipulate that wetlands not be mowed.

PROPOSED NEW RIGHT OF WAY

MAR. 1998

I CERTIFY THIS PLAN IS ORIGINAL
AND NOT A COPY OF ANY OTHER
PLAN SUBMITTED BY ME OR BY MYSELF, JOHN H. THEIBAU

OLD ROAD + MITIGATION
CROSS VIEW

ROAD 99.5

EXIS. GROUND
99.5

N/F
HIGHGATE FOUR SEASONS
DEVELOPMENT CO. INC.

VERMONT AGENCY OF
TRANSPORTATION

INTERSTATE I-89

RT 7
STATE OF VT
DICK HARPER

BRIAN LERICH

EXISTING STONE DRIVE

MITIGATION AREA
PLANTING SHRUBS +
REMOVE OLD ROADWAY

EXISTING FENCELINE

EDGE
WETLAND

ROBERT & CLAUDETTE
THIBEAULT
54,554 sq. ft.
8.13 acres
VOL. 58, PG. 259

N/F
MARCUS & MADELINE
RAYMOND
VOL. 56, PG. 120

NEW ROAD
CROSS VIEW AT
DEEPEST POINT

ROAD
100.5

G-ROUND - - - 96.0
97.0

18" CULVERT
4" BELOW
GRADE

INSTALL 18"
CULVERT
- 18" CULVERT
(EXISTING)

18" CULVERT
(EXISTING)
THIBEAULT DEED CALLS FOR OLD
FENCELINE NOT EXISTING AT THE
TIME OF THIS SURVEY

INSTALL 36" CULVERT
- 12" CULVERT (EXISTING)

6" CULVERT (EXISTING)

16.5' R/W PER MEASUREMENTS FROM
EXISTING MONUMENTS TO CENTER OF
ROAD. THIS WIDTH IS NOT MENTIONED
IN DEEDS OF RECORD.

CHARBONNEAU

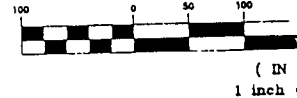
334' DEEDED & MEASURED
BARN

DAVISON

OTHER PROPERTY
OF
THIBEAULT
.78 acres

LUCIEN &
LAWRENCE
THIBEAULT

PERMANENT PHOTOGRAPHIC STATIONS
(TAKE PANORAMA OF OLD + NEW ROAD)
RIGHT-OF-WAY IN FAVOR OF THIBEAULT,
BOUCHARD, AND RAYMOND.



APPROXIMATE EDGE OF LAKE
AUGUST 1995

ELEV. 83.0'

PURSU
PUBLIC
CHAP.
AUTHG

LAKE CHAMPLAIN

THIBEAULT ACCESS ROADWAY
IN: WETLAND ADJACENT TO LAKE CHAMPLAIN
AT: HIGHGATE SPRINGS, VERMONT
BY: THIBEAULT, ROBERT
SHEET 3 OF 4
MARCH 98

Wetland Function-Value Evaluation Form

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Total area of wetland 0.48 ac Human made? yes Is wetland part of a wildlife corridor? yes or a "habitat island"? no

Adjacent land use forest, lawn Distance to nearest roadway or other development 10 feet

Dominant wetland systems present PFO Contiguous undeveloped buffer zone present 50%

Is the wetland a separate hydraulic system? no If not, where does the wetland lie in the drainage basin? low

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

Wetland I.D. _____













Latitude N44.99616 Longitude W73.08787

Prepared by: Minkin Date 8/20/02

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		X				
 Floodflow Alteration	X		5,6			
 Fish and Shellfish Habitat		X				
 Sediment/Toxicant Retention	X		1,7	X		site situated between lawn and forested wetland
 Nutrient Removal	X		3,4	X		site situated between lawn and forested wetland
 Production Export		X				
 Sediment/Shoreline Stabilization		X				
 Wildlife Habitat	X		6,7,11,20			leopard frogs, garter snake
 Recreation		X				
 Educational/Scientific Value		X				
 Uniqueness/Heritage		X				
 Visual Quality/Aesthetics		X				
ES Endangered Species Habitat		X				
Other						

Notes:

* Refer to backup list of numbered considerations.

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Highgate Springs, VT
8/20/02



Site is linear area in center resulting from road removal.
Note *Acer rubrum* seedlings in line down the middle and the mowing of the site.



Impact area for which the mitigation was done. Mitigation site is just off the photo to the right.

USGS 68 km SE of Montreal, Quebec, Canada 09 May 1995



0 200M

0 200yd

Image courtesy of the U.S. Geological Survey
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