

NH DOT – Wallace Road

File No.: 199402710

City and State: Bedford, NH

General Impacts:

- 0.62 acre forested
- 0.37 acre scrub-shrub
- 0.12 acre emergent

Functions and Values Lost: (From Wetland Mitigation Report)

- Wildlife Habitat- travel corridor associated with Riddle Brook
- Floodflow Alteration
- Sediment/Toxicant Retention
- Nutrient Removal

Year(s) Mitigation Constructed: December 1995

Size and Type of Mitigation as Proposed:

- 0.14 acre open water
- 0.5 acre emergent
- 0.38 acre scrub-shrub
- 3.5 acres upland

Proposed Functions and Values of Mitigation: (from database)

- Wildlife Habitat
- Groundwater
- Floodflow Alteration

Mitigation Special Condition(s):

Mitigation: The NH DOT shall mitigate unavoidable impacts with the restoration of approximately 1.4 acres of wetlands, 0.3 acre of upland plantings, and a conservation easement on the 3.5 acre mitigation site as called for in the New Hampshire Wetlands Board Permit of January 3, 1995. The purpose of the mitigation work is to compensate for the loss of functions and values provided by those wetlands which will be destroyed by the project. The permittee by agreeing to this special condition commits to undertake the construction, landscaping, monitoring, and remedial actions necessary to create a functioning wetland capable of providing flood storage, water quality renovation, and habitat values similar to those of the impacted emergent/scrub-shrub wetlands.

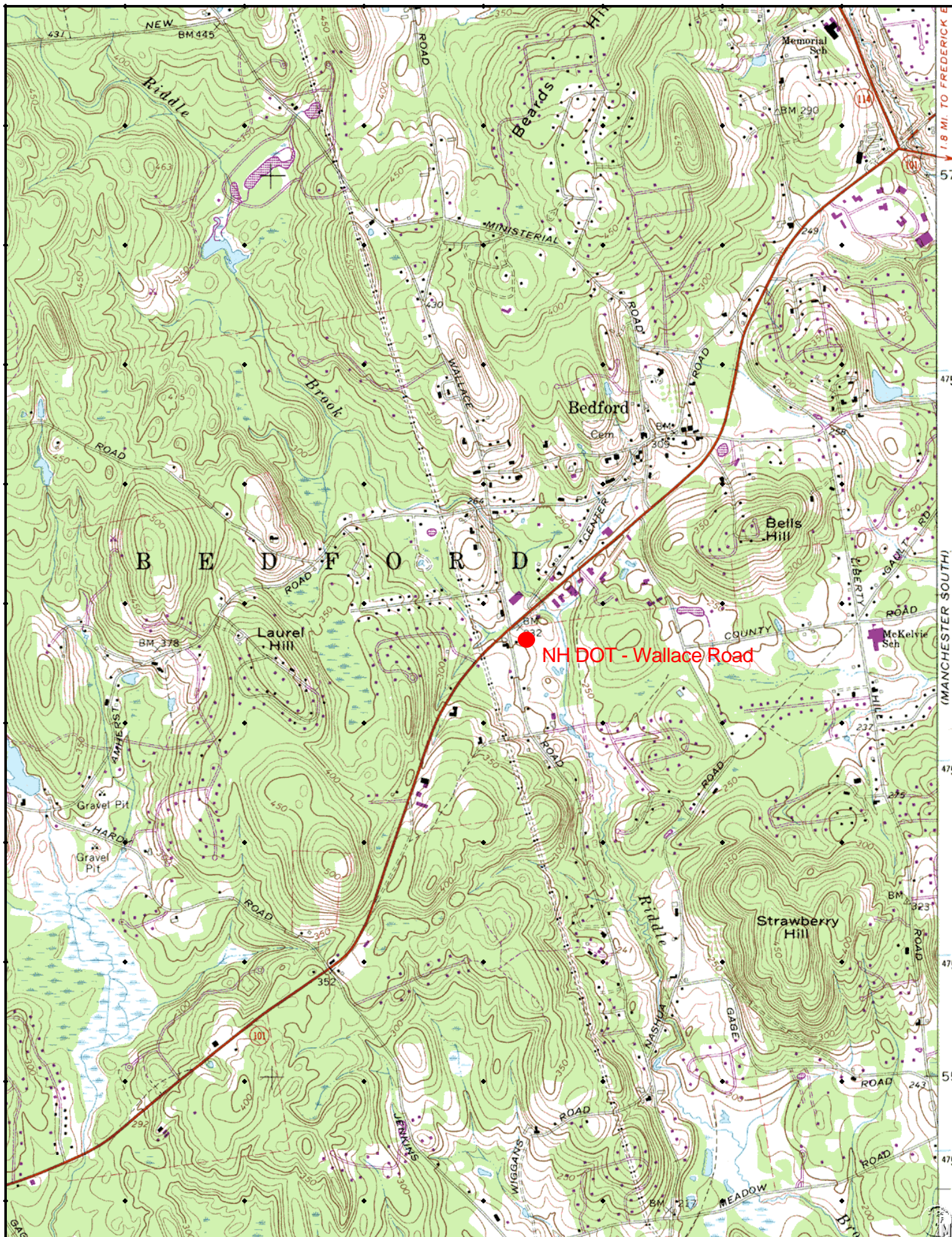
Remarks:

None

Directions:

Take 128/95 north. Take exit 32B/32A, US-3 north, Middlesex Turnpike. Stay straight going onto the Frederick Everett Turnpike. Take exit 11, towards US-3/Merrimack. Turn right onto Greeley Street. Turn left onto Daniel Webster Highway/NH-28A/US-3. Turn slight left onto Wire Road. Wire Road becomes Wallace Road/Nashua road.





MITIGATION SITE FIELD DATA FORM

Site Name: NHDOT - Wallace Road **File No. :** 199402710

City/Town: Bedford **State:** NH **Waterbody:** Riddle Brook

Monitor(s): Keith Wright, Mark Lauren (NHDOT) **Date:** 7-08-02

Was site constructed? yes

Is site wetland? yes

Size of proposed wetland: 0.14 acre open water, 0.5 acre emergent wetlands, 0.38 acre of scrub shrub

Actual size of wetland: same

Landscape position: depression between two gently sloping uplands

Lat/Long Points: 42.93735N W071.52481

Saved GPS Waypoint name: 006

GPS Tracking Log Name: N/A

Perimeter: TBD

Surrounding land use:
Forest, hayfield

Is wetland function compromised by surrounding land use?
No

Plant health:
Shrub plantings were either unhealthy (no growth in the last five years) or dead.

Invasive Species:
Lythrum salicaria, *Phalaris arundinacea*

Wildlife Use:
Yellow finch, deer tracks and sleeping depressions, frogs.

Plants:

Acer rubrum
Alnus rugosa
Asteraceae sp.
Betula populifolia
Carex sp. (ovales)
Carex lurida
Eleocharis sp.
Eupatorium perfoliatum
Iris versicolor
Juncus effusus
Lysimachia terrestris
Lythrum salicaria
Nymphaea odorata
Onoclea sensibilis
Poaceae spp.
Phalaris arundinacea
Potentilla sp.
Scirpus atrovirens
Scirpus cyperinus
Solidago sp.
Sphagnum sp.
Typha latifolia
Vaccinium angustifolium
Viburnum dentatum
Vicia sp.

Soils Data:

Drier plot

DEPTH	HORIZON	MATRIX	REDOX	COMMENTS
0 – 16"	A	5Y 2.5/1	7.5YR 5/6, 10%	medium loamy sand
16 +	C	2.5Y 4/4		medium sand

Wetter plot

DEPTH	HORIZON	MATRIX	REDOX	COMMENTS
0 – 10"	A	10YR 3/2		loamy sand
10 – 18	Bw	10YR 4/3	depleted matrix, 5Y 7/2 at 10", 7.5YR 5/8 10%	
18+	C	2.5Y 6/1		

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

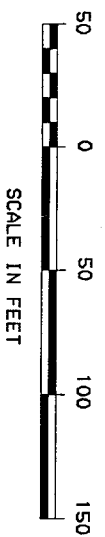
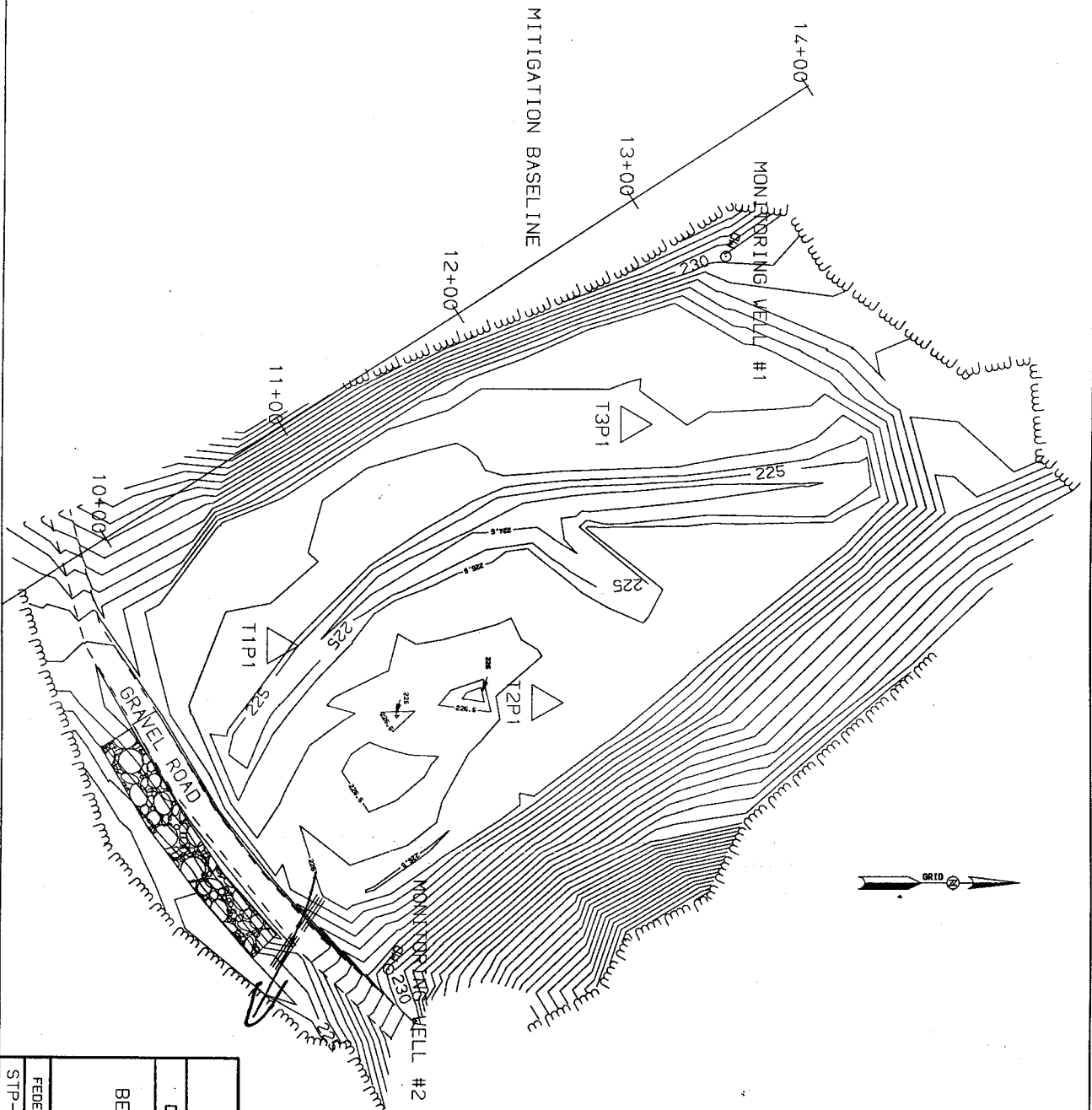
See field notes

Overall Description of site:

Site is oblong depression between two uplands, one of which is a hayfield leading to a residential area. The other is a grassland leading into forested area. Water flows in from storm run-off and groundwater in a north-to-south direction. A narrow pond runs north to south along the western side of the site. Thick cattail growth can be found at either end of the site. The site is being colonized by speckled alder, most notably in the northwest corner. Based on rates of growth Mark Lauren anticipates that most of the site will become a scrub-shrub wetland. The southwest portion of this site was notably drier than the rest of the site.

Comments, problems, recommendations:

Forty-percent juvenile purple loosestrife in southwest corner of site. Several of the planted shrubs were dead or unhealthy.



STATE OF NEW HAMPSHIRE				
DEPARTMENT OF TRANSPORTATION • BUREAU OF ENVIRONMENT				
BEDFORD WALLACE ROAD WETLANDS MITIGATION AREA EXISTING DETAIL AND CONTOURS (6")				
FEDERAL PROJECT NO.	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS	
STP-X-F-018-1(20)	11005	1	1	

Wetland Function-Value Evaluation Form

NH DOT Wallace Road
199402710

Total area of wetland 1.02 ac Human made? yes Is wetland part of a wildlife corridor? _____ or a "habitat island"? yes

Adjacent land use hayfields Distance to nearest roadway or other development 150 feet

Dominant wetland systems present PEM Contiguous undeveloped buffer zone present yes

Is the wetland a separate hydraulic system? no If not, where does the wetland lie in the drainage basin? between 2 wetlands
one borders a stream

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. _____













Latitude N42.93735 Longitude W71.52481

Prepared by: Wright Date 7/8/02

Wetland Impact:
Type PFO,PSS,PEM Area 0.62, 0.37,
0.12

Evaluation based on:
Office _____ Field X

Corps manual wetland delineation
completed? Y X N _____

Function/Value	Suitability Y N		Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
 Groundwater Recharge/Discharge	X		7,13		
 Floodflow Alteration	X		2,5,6,7,10		
 Fish and Shellfish Habitat		X			
 Sediment/Toxicant Retention	X		1,2,3,5,7	X	
 Nutrient Removal	X		3,4,5,9		
 Production Export		X			
 Sediment/Shoreline Stabilization		X			
 Wildlife Habitat		X			
 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.

199402710
NHDOT Wallace Road
Bedford, NH
7/8/02

THERE ARE NO PHOTOS OF THIS SITE



0 100M

0 100yd

Image courtesy of the U.S. Geological Survey
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