

NHDOT Route 25 Effingham-Freedom

File No.: 198700631

City and State: Effingham to Freedom, NH

General Impacts: 5.9 acres PFO/PSS

Functions and Values Lost: (From EA/SOF)

Wildlife Habitat - principal

Flood Storage - principal

Sediment Retention – principal

Year(s) Mitigation Constructed: August 1993

Size and Type of Mitigation as Proposed: 2.1 acres non-tidal scrub-shrub (per EASOF). Site 1 (north of road): 1.7 acres; Site 2 (south of road): 0.4 acre.

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

Wildlife Habitat

Flood Storage

Sediment Retention

Mitigation Special Condition(s):

4. The mitigation plan to create 2.1 acres of compensatory wetlands shall be constructed in its entirety in accordance with the plan entitled “Wetland Mitigation Plan, Effingham-Freedom, F-026-1(i), S-3370”, in 11 sheets, dated December 15, 1989.

Remarks:

None

Directions:

Take I-95 north into New Hampshire. Take exit 4, US-4/Route 16. Stay straight to go onto Route 16 north. Take Route 16 to Center Ossipee. Take right on Route 25 east. Go about four miles. Pass Leavitt Road on left and cross Red Brook, Phillips Brook, and Leavitt Brook. If come to Green Mountain Road/Route 153, have just passed sites. One is on each side of the road approximately 3,200’ (site to north of road) and 1,600’ (site to south of road) before the junction with Green Mountain Road/Route 153.





MITIGATION SITE FIELD DATA FORM

Site Name: NHDOT Rt. 25 **File No.** 198700631
City/Town: Effingham **State:** NH **Waterbody:** Ossipee River
Monitor(s): Paul Minkin, Roxanne Barbeau **Date:** 10-09-02

Was site constructed? yes

Is site wetland? Site 1 may be, based on vegetation; site 2 definitely is.

Size of proposed wetland: Site 1: 1.7 acres;
Site 2: 0.4 acre

Actual size of wetland: TBD

Landscape position: close to, if not in, the floodplain of the Ossipee River

Lat/Long Points:

EFF1-N43.79339W71.07055
EFF2-N43.79314W71.07050
EFF3-N43.79298W71.07211
EFF4-N43.79347W71.06802
EFF5-N43.79200W71.06108
EFF6-N43.79198W71.05079

Saved GPS Waypoint name: Site 1: EFF 1-4
Site 2: EFF 5-6

GPS Tracking Log Name: N/A

Perimeter: TBD

Surrounding land use:

Highway adjacent to both sites, horseback riding trail also adjacent to Site 1; forest

Is wetland function compromised by surrounding land use?

Yes. Trash is being thrown from highway, and in the case of site 2, being blown into the wetland itself. Mowing, including shrub and saplings, was occurring in the buffer zone at Site 2.

Plant health:

Good

Invasive species:

Typha latifolia, which is dominant at Site 2.

Wildlife use:

A wood duck box has been placed at Site 1 and a chickadee was seen at Site 2.

Plants:

Site 1:

Alnus rugosa
Carex spp.
Cephalanthus occidentalis
Juncus effusus
Lysimachia sp.
Scirpus cyperinus
Solidago rugosa
Solidago sp.
Sphagnum sp.
Spiraea tomentosa
Typha latifolia

Site 2:

Betula populifolia
Carex lurida
Cornus sp.
Populus tremuloides
Rubus sp.
Scirpus cyperinus
Solidago rugosa
Sphagnum sp.
Typha latifolia
Vaccinium sp.

Soil data:

A soil sample was taken only at Site 1, with the assumption that soil findings would be consistent throughout the site. Coarse sand was found here, and a 2" O horizon was found with sandy loam beneath. Many roots were found at this level as well, and an increase in gravel was noted below 10".

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

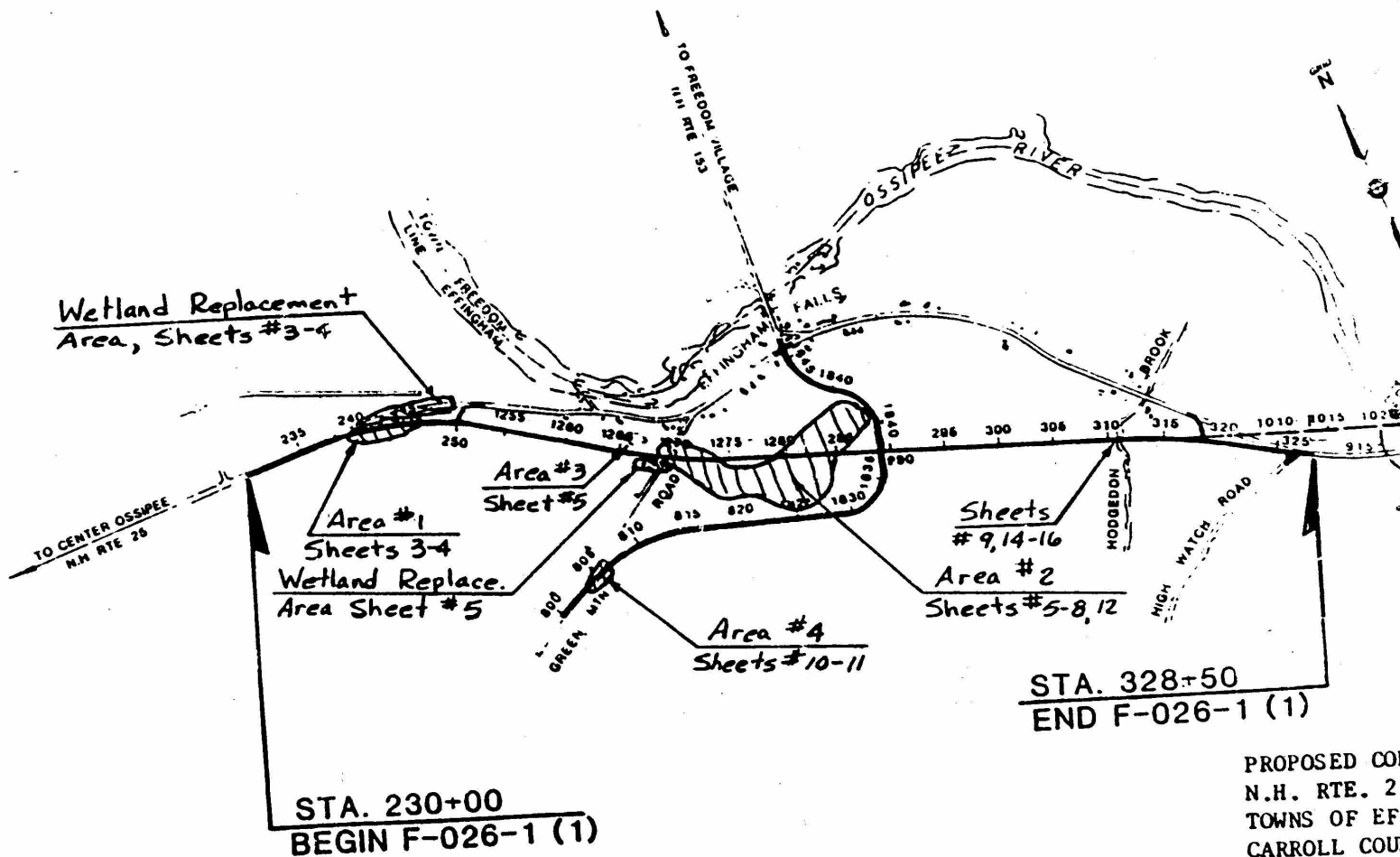
See file. A "total site photograph" was taken at Site 1, and at site 2 photographs were taken at EFF 5 and 6, and of the wooded area adjacent to the site on one side.

Overall Description of site:

Both sites are located at the foot of slopes on either side of NH Rt. 25. Site 1 at the time of the visit was very dry with standing water located at the site's upper end, at waypoint EFF4. In contrast, Site 2 had standing water throughout the site with *Typha* dominant.

Comments, problems, recommendations:

Site 1 was quite dry at the time of the site visit, with standing water found on only one small part of it, but the presence of hydric vegetation indicates an emergent wetland. *Typha* is present, but is not as dominant as at Site 2. Highway trash does not seem to be a problem on the north side of Rt. 25, and the horseback-riding trail above the buffer zone is also not causing problems at this time. At Site 2, mowing (including shrubs and saplings) has been occurring at the very edge. Trash from the highway is blowing into the wetland and *Typha* is well established. NHDOT should be contacted concerning the mowing situation.



SCALE: 1" = 1600'













PROPOSED CONSTRUCTION
 N.H. RTE. 25 N.H.D.O.T.
 TOWNS OF EFFINGHAM & FREEDOM
 CARROLL COUNTY
 F-026-1(1), S-3390
 APRIL 24, 1987
 PERMIT SHEET 2 OF 16
 REVISED 10/5/88
 REVISED 10/26/89

87-00687

Wetland Function-Value Evaluation Form

Total area of wetland 2.1 acres Human made? yes Is wetland part of a wildlife corridor? no or a "habitat island"? no
 Adjacent land use highway and forest Distance to nearest roadway or other development 20'
 Dominant wetland systems present PEM Contiguous undeveloped buffer zone present only about 50%
 Is the wetland a separate hydraulic system? no? If not, where does the wetland lie in the drainage basin? close to, if not in, floodplain of Ossipee River
 How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

NHDOT Rt 25 Sites 1 and 2;
 Wetland I.D. 198799631
 Latitude N43.79300 Longitude W71.07100 (1)
 Prepared by: PM Date 10/9/02
 Wetland Impact: PFO/SS Area 5.9 acres
 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				discharge
 Floodflow Alteration		X			unless is in floodplain of Ossipee River
 Fish and Shellfish Habitat		X			
 Sediment/Toxicant Retention	X			X	dense vegetation
 Nutrient Removal	X			X	dense vegetation
 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			None known
Other					

Notes:

* Refer to backup list of numbered considerations.

198700631
NHDOT Route 25
Effingham-Freedom, NH
10/9/02



Site 1 looking west from near the east end.



Site 2 looking east, south, and west from the bottom of the road embankment near the middle of the site.

USGS 1 km SW of Effingham Falls, New Hampshire, United States 11 Apr 1998



0 200M 0 200yd

Image courtesy of the U.S. Geological Survey
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