# Huber Resources

**File No.:** 199701542

**City and State:** Millinocket, ME

**General Impacts:** 1.57 acres freshwater wetland

**Functions and Values Lost:** (From Compensation Plan)
Groundwater Discharge
Wildlife Habitat

**Year(s) Mitigation Constructed:** November 1998

**Size and Type of Mitigation as Proposed:**
0.34 acre restoration
0.2 acre enhancement
1.1 acres creation

**Proposed Functions and Values of Mitigation:** (From Compensation Plan)
Floodflow Alteration
Sediment Stabilization
Wildlife Habitat

**Mitigation Special Condition(s):** (Number not specified in permit)

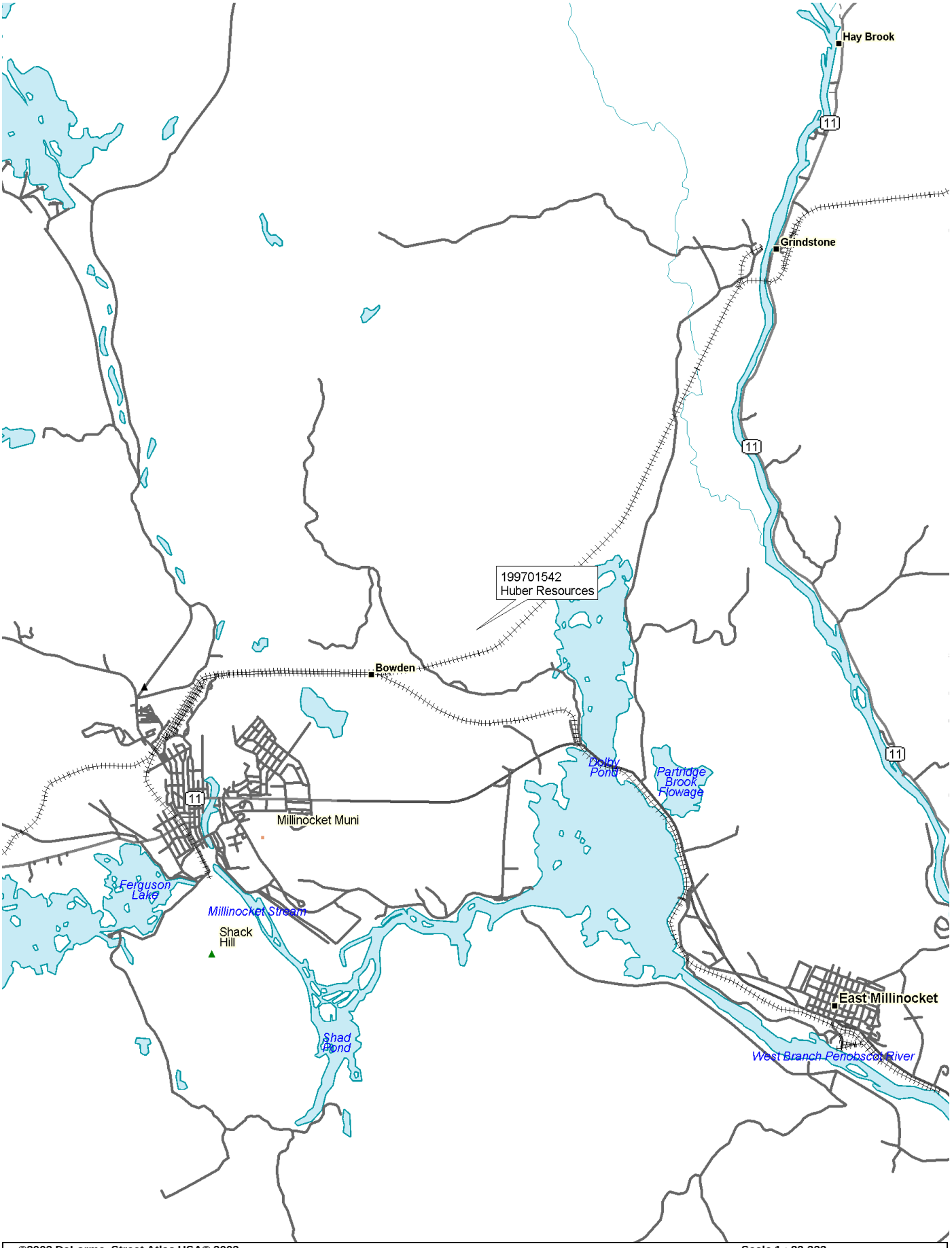
The permittee shall implement a mitigation plan to restore approximately 0.34 acre of previously filled wetland, enhance 0.20 acre of freshwater wetland, and create 1.1 acres of freshwater wetland as described in the attached document entitled "Huber Compensation Plan" updated. The mitigation described in the plan shall be implemented within thirty (30) days of the permit issuance.

**Remarks:**

Permit is in file, but it could have better supporting information.

**Directions:**

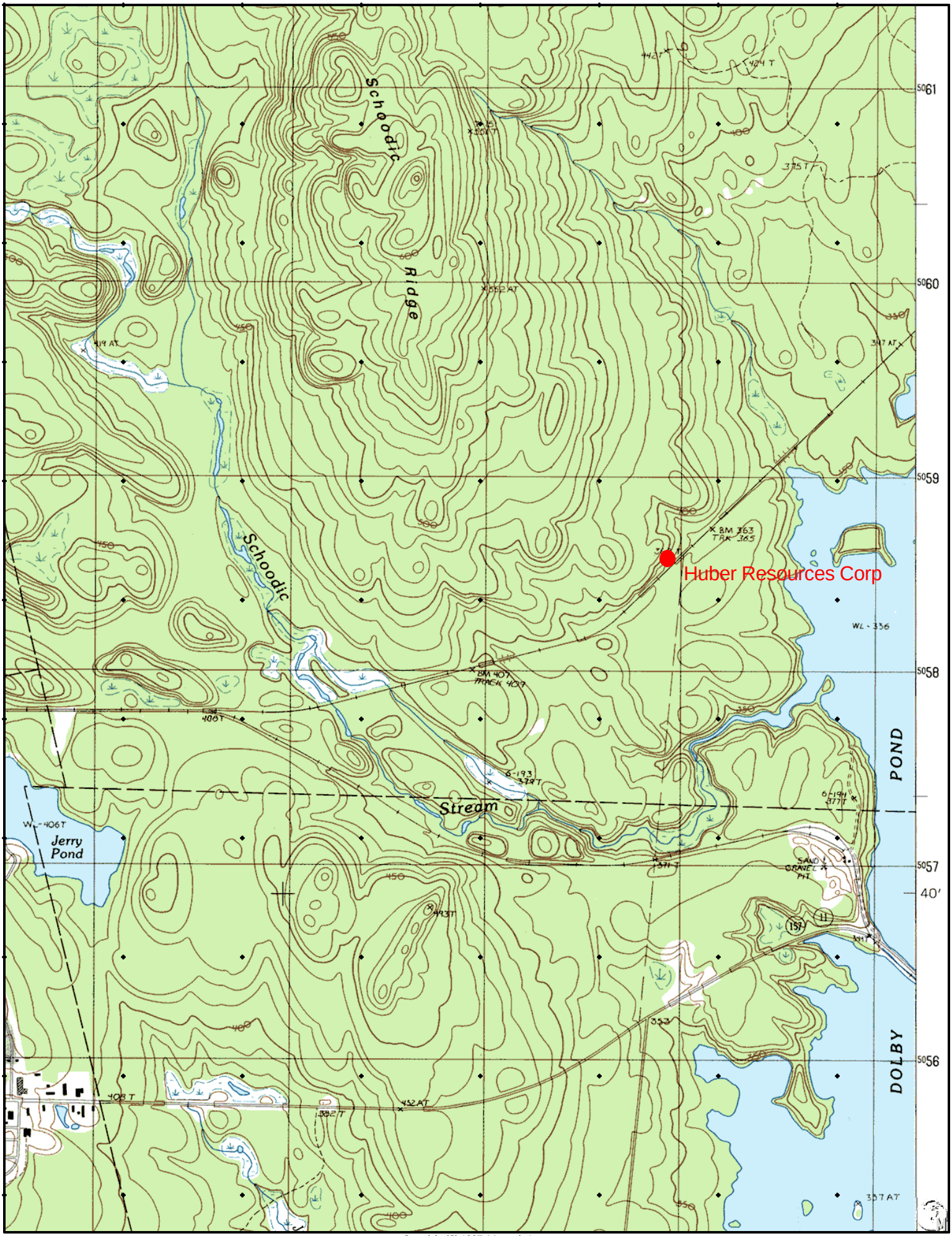
Take I-95 north into Maine and past Bangor. Take the Medway/East Millinocket exit (exit 56 for Route 11/157). Go west through East Millinocket past large paper company on route 157. Cross Dolby Pond on Rts 11/157. The entrance to Huber Resources is on the right (first right after railroad tracks). Follow driveway into the office and proceed to processing plant to let Huber officials know that you will be on site. The creation site is west of the office; the restoration site is 1.6 miles from the railroad. Follow the dirt road and take the left fork. Go 3.1 miles to flat rocks on the right. The site is to the left of the ponded area.






TN
MN (18.4°W)

Scale 1 : 83,333
0 ½ 1 1½ 2 mi
0 1 2 3 km
1" = 1.32 mi



# MITIGATION SITE FIELD DATA FORM

**Site Name:** Huber Resources **File No.** 199701542

**City/Town:** Millinocket **State:** ME **Waterbody:** Dobie Stream

**Monitor(s):** Ruth Ladd, Peter Tischbein, Keith Wright **Date:** 8-14-02

**Was site constructed?** yes

**Is site wetland?** TBD

**Size of proposed wetland:** 1.1 creation, 0.34 restoration

**Actual size of wetland:** TBD

**Landscape position:** TBD

**Lat/Long Points:**
Creation: 45.68150N 068.64047W
Restoration: 45.67966N 68.64019W

**Saved GPS Waypoint name:** HUBC 1-6, HUB R-1, HUB R-2

**GPS Tracking Log Name:** N/A

**Perimeter:** TBD

**Surrounding land use:**
Creation: scrub-shrub wetland, wood processing facility
Restoration: natural PEM, gravel road
Enhancement: Gravel road, wetland.

**Is wetland function compromised by surrounding land use?**
Both sites are bordered by development, which may compromise wildlife habitat.

**Plant health:**
Good

**Invasive species:**
*Elaeagnus* was planted as part of the mitigation.

**Wildlife use:**
Moose tracks

**Plants:**
*Abies balsamea*
*Acer rubrum*
*Alnus rugosa*
*Anaphalis margaritacea*
*Aster* spp.
*Betula populifolia*
*Carex crinita*
*Carex* sp. (ovales)
*Equisetum* sp.
*Erechtites hieraciifolia*
*Euthamia graminifolia*
*Hypericum* spp.
*Juncu effusus*
*Juncus* spp.
*Leersia oryzoides*
*Lotus corniculatus*
*Onoclea sensibilis*
*Osmunda cinnamomea*
*Phleum pratense*
*Pinus strobus* (seedlings)
*Populus tremuloides*
*Rhynchospora* sp.
*Rubus ideaus*
*Salix* sp.
*Scirpus cyperinus*
*Solidago rugosa*
*Sphagnum* spp.
*Spiraea tomentosa*
*Thelypterus palustris*
Thistle
*Thuja occidentalis*
*Triadenum* sp.
*Typha* sp.
*Vaccinium angustifolium*

**Adjacent wetland:**
*Abies balsamea*
*Acer rubrum*
*Betula populifolia*
*Cornus canadensis*
*Osmunda cinnamomea*
*Pinus strobus*
*Populus tremuloides*
*Rhus* sp.
*Rubus idaeus*
*Scirpus cyperinus*
*Solidago rugosa*
*Sorbus* sp.
*Sphagnum* spp.
*Typha latifolia*

**Restored site:**
*Alnus rugosa*
*Betula populifolia*
*Carex crinita*
*Carex lurida*
*Equisetum* sp.
*Euthamia graminifolia*
*Hypericum* sp.
*Impatiens capensis*
*Juncus effusus*
*Pinus strobus*
*Scirpus cyperinus*
*Solidago rugosa*
*Sphagnum* spp.
*Ulmus* sp.

**Enhanced site:**
*Acer rubrum*
Asteraceae sp.
*Salix* sp.
*Scirpus cyperinus*
*Spiraea tomentosa*
*Typha latifolia*

**Soils Data:**

| DEPTH | HORIZON | MATRIX | REDOX | COMMENTS |
|---|---|---|---|---|
| 0 – 5” | A1 | 10YR 2/2 | | sandy loam |
| 5 – 16 | A2 | 10YR 2/1 | | loamy sand |
| 16+ | C | 2.5Y 7/2 | 10YR 5/6 | mixed sands |
| | | 2.5& 7/3 | | |

**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 creation part of this mitigation site consists of a PSS/PEM basin. Principle functions and values include wildlife habitat, groundwater recharge, nutrient removal and sediment trapping. The mitigation site is much drier than the adjacent wetland, which was still saturated to the surface despite drought conditions. The natural wetland had much more organic material in its soil. A 16-inch organic layer with trace amounts of mineral material may indicate the existence of a histosol prior to mixing by logging equipment.

The restoration part consists of a third of an acre in which fill for a road was removed and the area was returned to its previous grade. It is a narrow swath surrounded by forest that slopes down to a stream.

There is a site that was called enhancement in the permit. It had been filled with wood chips and slash

which was removed.  The site consists of a PEM with a ponded area in the middle. To get to the site go 1.6 miles past the railroad tracks that are just past the processing plant and take the right fork. Go 3.1 miles to a pair of flat rocks on the right hand side of the road. The site is to the left of the ponded area.

**Comments, problems, recommendations:**
There are still remnants of siltation fence in the restored site that should be removed.

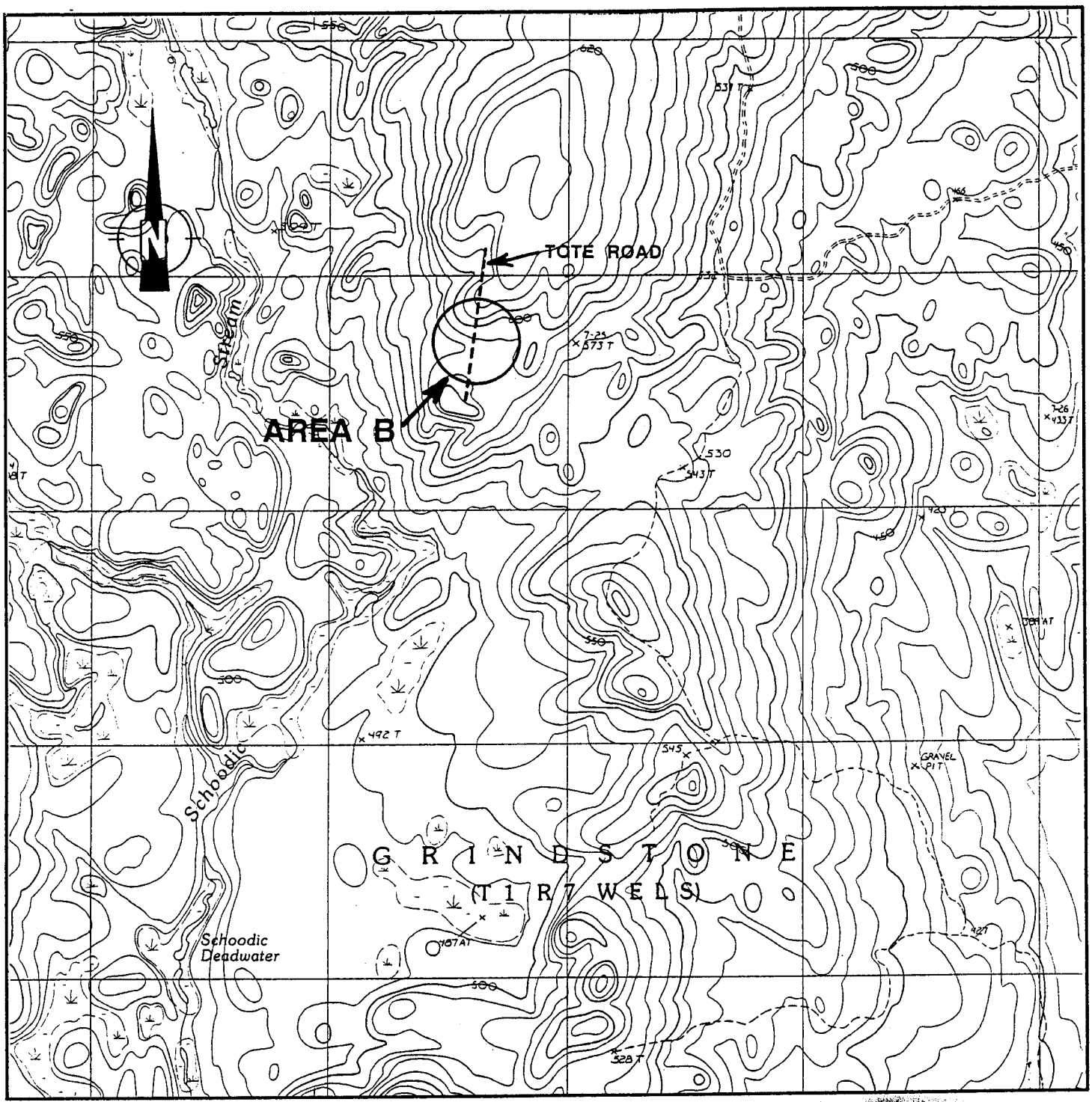



Figure B–1

***Huber Property Compensation Areas***
***Restoration Area B (0.29 ac.)***

0 2000 Feet

Source: USGS 7.5' Quad. Millinocket, Maine P.E. 1988

| Job Code: | Drafted by: | Checked by: |
|---|---|---|
| WTPT–HUBER | P. Labbe | P. Tischbein |


**Timson & Peters, Inc.**
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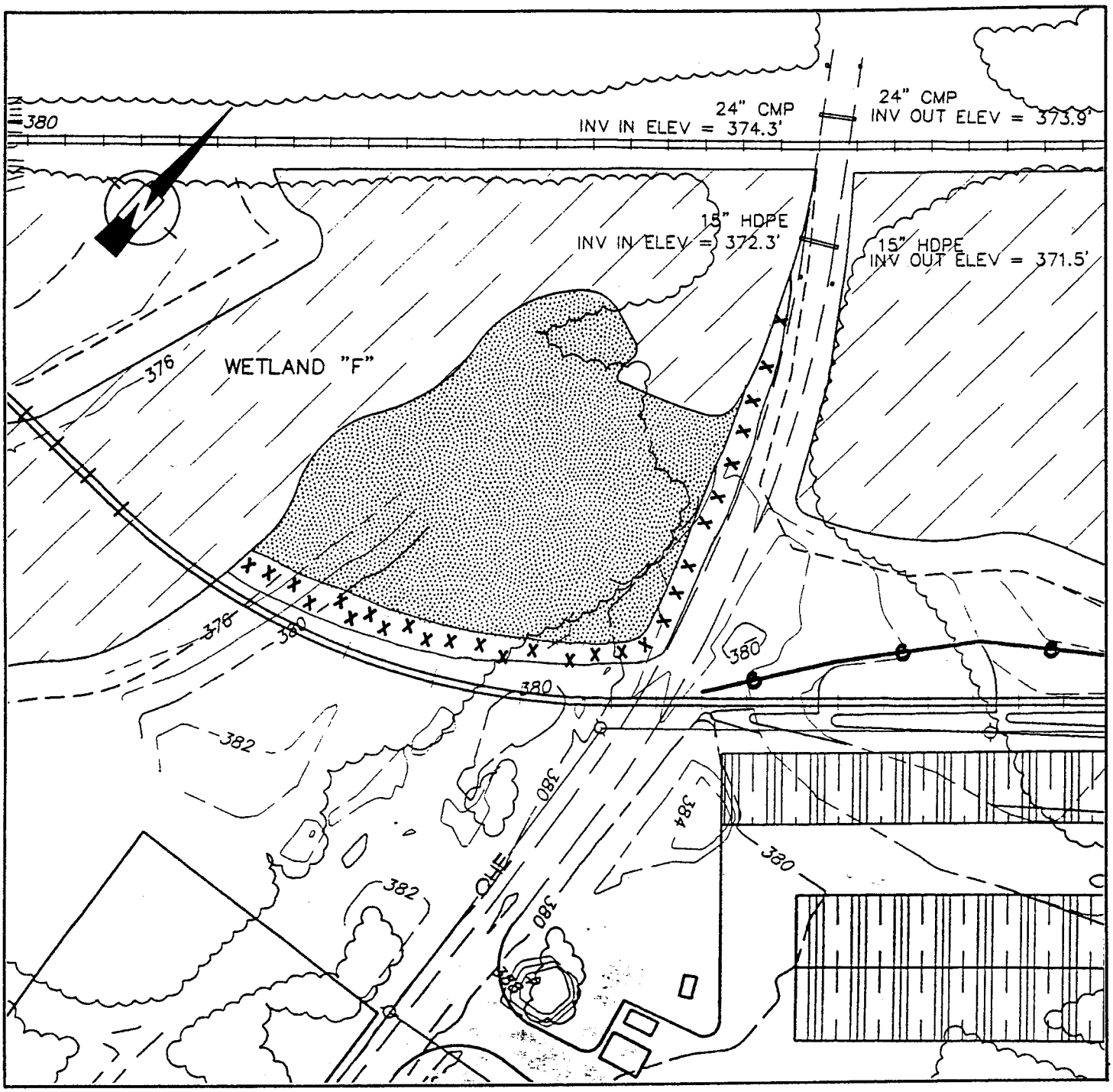


## Figure C–1

***Huber Property Compensation Areas***
***Creation Area C (1.10 ac.)***

SCALE
0 100 Feet

*Location of fill removal*

x x x *Denotes sideslopes planted w/shrubs (enhancement, 0.20 ac.)*

Source: The Ames Corporation, Grading, Drainage & Erosion Control Map. Project No. 94055.01, 07/26/95

| Job Code: | Drafted by: | Checked by: |
|---|---|---|
| WTPT–HUBER | P. Labbe | P. Tischbein |


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# Wetland Function-Value Evaluation Form

Huber Resources

Total area of wetland ~1.44 ac Human made? yes Is wetland part of a wildlife corridor? no or a "habitat island"? no

Adjacent land use scrub-shrub wetland, wood processing facility, gravel road Distance to nearest roadway or other development 20 feet

Dominant wetland systems present PEM, PSS Contiguous undeveloped buffer zone present 75%

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

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

Wetland I.D. 199701542

Latitude N45.68150 Longitude W68.64047

Prepared by: Ladd Date 8/1/4/02

Wetland Impact:
Type Area

Evaluation based on:
Office Field X

Corps manual wetland delineation completed? Y N X

| Function/Value | Suitability Y | Suitability N | Rationale (Reference #)* | Principal Function(s)/Value(s) | Comments |
|---|---|---|---|---|---|
| Groundwater Recharge/Discharge | X | | | | sands and gravels; recharge primarily |
| Floodflow Alteration | | X | | | |
| Fish and Shellfish Habitat | | X | | | |
| Sediment/Toxicant Retention | X | | | X | source of sediment from adjacent facility and roads |
| Nutrient Removal | X | | | | ponded water on smaller site |
| Production Export | | X | | | |
| Sediment/Shoreline Stabilization | | X | | | |
| Wildlife Habitat | X | | | | limited by proximity to roads and facility, part of large undeveloped area |
| Recreation | | X | | | on private land |
| 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.

199701542
Huber Resources
Millinocket, ME
8/14/02

Looking southwest to northwest from slope down to eastern corner of creation area

Looking south and west from northeastern corner of creation area

Restoration area.  Note logging road on left.

USGS **6 km E of Millinocket, Maine, United States** 28 May 1997


Image courtesy of the U.S. Geological Survey