

AGENDA
Inland Wetland Agency
Regular Meeting
Monday, July 6, 2009
Council Chambers, Audrey beck Building

Call to Order: 7:00 PM

Review of Minutes of Previous Meetings and Action Thereon:

6.01.2009 - Regular Meeting
6.08.2009 - Field Trip

Communications:

Conservation Commission: W1433 - Beall & Higgins

GM monthly business memorandum

Outstanding Enforcement Actions:

Old Business:

Consideration of action:
W1433- Beall & Higgins- Wormwood Hill Road-Single Family House in Buffer

Public Hearing Continuation:

W1424 - Whispering Glen Condominiums - Meadowbrook Lane

New Business:

New Applications:
W1435- Bachiochi- 78 Mansfield Hollow Rd- In ground Pool
W1436- Gaffney- 125 Wildwood Road - 90' x 30' Fire Pond
Request for Exemption:
W1434- Town of Mansfield- Commonfields, Storrs Road- Bird Blind
Renewal Request:
W1218- Town of Mansfield- Birch Road Bikeway permit renewal

Reports of Officers and Committees:

Other Communications and Bills:

6-23-09 Letter from Tony Mele, Project Manager, Interstate Reliability Project, CL&P
May/June 2009, CT Wildlife
Spring 2009, The Habitat

Adjournment:

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DRAFT MINUTES
MANSFIELD INLAND WETLANDS AGENCY
Regular Meeting
Monday, June 1, 2009
Council Chambers, Audrey P. Beck Municipal Building

Members present: R. Favretti (Chairman), B. Gardner, J. Goodwin, R. Hall, K. Holt, P. Kochenburger, B. Pociask
Members absent: P. Plante, B. Ryan
Alternates present: G. Lewis, L. Lombard
Alternates absent: M. Beal
Staff present: G. Meitzler (Wetlands Agent)

Chairman Favretti called the meeting to order at 7:01 p.m. Alternates Lombard and Lewis were appointed to act.

Minutes:

5-4-09 - Hall MOVED, Gardner seconded, to approve the 5-4-09 minutes as written. MOTION PASSED UNANIMOUSLY.

5-12-09 Field Trip - Gardner MOVED, Holt seconded, to approve the 5-12-09 Field Trip minutes as written. MOTION PASSED with Holt, Favretti, Gardner, Goodwin, and Lombard in favor and all others disqualified.

5-18-09 Special Meeting-Holt MOVED, Gardner seconded, to approve the 5-18-09 Special Meeting minutes as corrected. MOTION PASSED UNANIMOUSLY.

Communications:

The 5-20-09 Conservation Commission Draft Minutes and 5-27-09 Wetlands Agent's Monthly Business report were noted. There were no questions or comments.

Outstanding Enforcement Actions:

W1400 – Glode – Stafford Rd

Kochenburger MOVED, Holt seconded, to release the Order issued to William & Janet Glode requiring removal and stabilization of an area of dumped materials in and next to wetlands on the property located at 777 Stafford Road. This action is based on the satisfactory removal of the dumped materials and stabilization of the area. MOTION PASSED UNANIMOUSLY.

New Business:

W1426 - Hallock Subdivision - Wormwood Hill Rd

Peter Henry, of Holmes and Henry, reviewed the revisions to plans dated 5-22-09. After a brief discussion, Holt MOVED, Hall seconded, to grant an Inland Wetlands License under Section 5 of the Wetlands and Watercourses Regulations of the Town of Mansfield to Kathryn A. Hallock (file no. W1426), for a three (3) lot subdivision, on property owned by the applicant, located on the east side of Wormwood Hill Road, as shown on plans dated March 20, 2009 revised through May 22, 2009 and as described in other applications submissions.

This action is based on a finding of no anticipated significant impact on the wetlands, and is conditioned upon the following provisions being met:

1. Erosion and sedimentation controls (as shown on the plans) shall be in place prior to construction and maintained during construction and removed when disturbed areas are completely stabilized.

This approval is valid for a period of five years (until June 1, 2014), unless additional time is requested by the applicant and granted by the Inland Wetlands Agency. The applicant shall notify the Wetlands Agent before any work begins, and all work shall be completed within one year. Any extension of the activity period shall come before this Agency for further review and comment. MOTION PASSED UNANIMOUSLY.

W1430 - Block - house addition - Hanks Hill Rd

After a brief discussion, Kochenburger MOVED, Holt seconded, to grant an Inland Wetlands License under Section 5 of the Wetlands and Watercourses Regulations of the Town of Mansfield to Michael Block (File W1431) for an addition onto an existing residence and expansion of a foundation for a retaining wall, on property owned by the applicant, located at 8 Hanks Hill Road, as shown on a map dated April 10, 2009 revised through May 20, 2009 with an accompanying letter dated May 25, 2009, and as described in other application submissions.

This action is based on a finding of no anticipated significant impact on the wetlands, and is conditioned upon the following provisions being met:

1. Appropriate erosion and sedimentation controls shall be in place prior to construction and maintained during construction and removed when disturbed areas are completely stabilized.
2. Any potential for impact will come from leaving the work area unprotected during construction. Therefore, hay bales (that are presently in place) shall be removed during work and restored or replaced when work stops. This is especially important during rainy days and nights.

This approval is valid for a period of five years (until June 1, 2014), unless additional time is requested by the applicant and granted by the Inland Wetlands Agency. The applicant shall notify the Wetlands Agent before any work begins, and all work shall be completed within one year. Any extension of the activity period shall come before this agency for further review and comment. MOTION PASSED UNANIMOUSLY.

W1431 - Juliano Pools (Gormley) - Storrs Rd - in-ground pool

Holt MOVED, Hall seconded, to grant an Inland Wetlands License under Section 5 of the Wetlands and Watercourses Regulations of the Town of Mansfield to Bryan Cormier/Juliano Pools (file no. W1431), for the installation of a 20x46 foot Lazy L in-ground swimming pool, on property owned by Suzanne Gormley, located at 853 Storrs Road, as shown on plans dated April 28, 2009 and as described in other applications submissions.

This action is based on a finding of no anticipated significant impact on the wetlands, and is conditioned upon the following provisions being met:

1. Erosion and sedimentation controls (as shown on the plans and in accompanying letter) shall be in place prior to construction and maintained during construction and removed when disturbed areas are completely stabilized;
2. The new pool shall not be placed any closer to the brook than the present pool;
3. All excavated material shall be removed from the site, except the one or two truck loads that shall be stockpiled as far from the brook/wetlands (toward the rear of the property) as possible. This material is to be used for minor yard work;
4. If any stone/rocks are dug up during the excavation, they shall be placed in a line at the base of the slope to act as a low retaining wall.

This approval is valid for a period of five years (until June 1, 2014), unless additional time is requested by the applicant and granted by the Inland Wetlands Agency. The applicant shall notify the Wetlands Agent before any work begins, and all work shall be completed within one year. Any extension of the activity period shall come before this Agency for further review and comment. MOTION PASSED UNANIMOUSLY.

Public Hearing Continuation:

W1424 - Whispering Glen Condominiums - Meadowbrook Lane

Chairman Favretti opened the continued Public Hearing at 7:18 p.m. Members present were Favretti, Gardner, Goodwin, Hall, Holt, Kochenburger, Pociask, and alternates Lewis, Lombard who were both appointed to act. Wetlands Agent Meitzler noted a set of 5-5-09 revised plans, a 5-13-09 letter from applicant and a 5/28/09.

Meitzler stated that all points in his memo have been addressed by the applicant. Patrick Lafayette, of Development Solutions, reviewed the significant changes made to the latest plans dated 5-5-09, based on staff comments. He noted the most significant change is the elimination of two units near the rear of the property adjacent to the steep slopes, and moved the remainder of those buildings 20 ft. from the wetlands.

Members questioned alternative routes for the sewer crossing the wetlands and walking path connection details. After a brief discussion, Holt MOVED, Lombard seconded, to continue the hearing until the Special Meeting on June 15th. MOTION PASSED with all in favor except Goodwin who was opposed. (At the 6-1-09 PZC Public Hearing on related item, it was agreed upon by the Commission and applicant to continue the Public Hearing in both IWA & PZC to the 7-6-09 meeting to allow adequate time for changes to the plans.)

Request for Renewal:

W1432-Bagwell- Chaffeeville Road- Lot 3, Horseshoe Heights Subdivision

Holt MOVED, Gardner seconded, to grant a renewal of an Inland Wetlands License under Section 5 of the Wetlands and Watercourses Regulations of the Town of Mansfield to Mallory Bagwell (file no. W1432), for Lot 3 of the Horseshoe Heights Subdivision, on property owned by the applicant, located on Chaffeeville Road, as shown on plans dated 1/1/01, revised through 3/20/01 and as described in other applications submissions.

This action is based on a finding of no anticipated significant impact on the wetlands, and is conditioned upon the following provisions being met:

1. Erosion and sedimentation controls (as shown on the plans) shall be in place prior to construction and maintained during construction and removed when disturbed areas are completely stabilized;
2. All conditions of the original permit shall remain in effect.

This approval is valid until April 2, 2011 (which is 10 years from the original approval date), unless additional time is requested by the applicant and granted by the Inland Wetlands Agency. The applicant shall notify the Wetlands Agent before any work begins, and all work shall be completed within one year. Any extension of the activity period shall come before this Agency for further review and comment. MOTION PASSED UNANIMOUSLY.

New Business:

W1433- Beall & Higgins- Wormwood Hill Road-Single Family House in Buffer

Goodwin MOVED, Holt seconded, to receive the application submitted by J. C. Beall and Katrina Higgins (IWA file #1433) under Section 5 of the Wetlands and Watercourses Regulations of the Town of Mansfield for the construction of a single family residence with onsite well and septic located on Wormwood Hill Road, on property owned by the applicants, as shown on a map dated May 26, 2009 and as described in other application submissions, and to refer the application to the staff and Conservation Commission for review and comment. MOTION PASSED UNANIMOUSLY.

Field Trip:

A field trip date was set for Monday, June 8, 2009 at 1:00 p.m.

Reports of Officers and Committees:

None noted.

Other Communications and Bills:

Noted.

Adjournment:

The meeting was adjourned at 7:38 p.m.

Respectfully submitted,

Katherine K. Holt, Secretary

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MINUTES

MANSFIELD INLAND WETLAND AGENCY/PLANNING AND ZONING COMMISSION FIELD TRIP

Special Meeting
Monday, June 8, 2009

Members present: R. Favretti, B. Gardner, R. Hall (items 3-6), K. Holt, L. Lombard,
Staff present: G. Meitzler, Wetlands Agent, Assistant Town Engineer;
G. Padick, Director of Planning; C. Hirsch, Zoning Agent

The field Trip began at 1:10 p.m.

1. WATT/WELCH PROPERTY, 19 Hillside Circle, Proposed efficiency apartment, PZC File #1287
Members were met by J. Watt and A. Welch who briefly explained the proposed plans. Site and neighborhood characteristics were observed. No decisions were made.
2. GREEN PROPERTY, 1090 Stafford Road, review of 2008 Gravel Removal Site and planned future excavation area, PZC File #1258
Members were met by K. Green, property owner and P. Desiato. Site characteristics were observed and a planned new excavation area was pointed out. No decisions were made.
3. BANIS PROPERTY, Pleasant Valley Road, Rock removal renewal request, PZC File #1164
Members were met by property owner S. Banis. Site characteristics were observed. No decisions were made.
4. VEILLEUX PROPERTY, 48 Puddin Lane, Efficiency Unit, PZC File #1288
Plans for new additions were reviewed and site and neighborhood characteristics were observed. No decisions were made.
5. HALL PROPERTY, 35 Mansfield Hollow Road, Gravel removal renewal request, PZC file #910-2
Members were met by property owner E. Hall. Site characteristics were observed. No decisions were made.
6. BEALLE & HIGGINS PROPERTY, Wormwood Hill Road (about 500 feet from Ashford Town Line), New Single Family Residence, IWA File #W1433
Members were met by J. C. Beall and K. Higgins who briefly explained the proposed plans. Site characteristics, and in particular topography and the location of an isolated wetland, were observed. No decisions were made.

The field trip ended at approximately 3:20 p.m.

Respectfully submitted,

K. Holt, Secretary

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Town of Mansfield
CONSERVATION COMMISSION
Meeting of 17 June 2009
Conference B, Beck Building
(DRAFT) MINUTES

Members present: Quentin Kessel, Scott Lehmann, John Silander. *Members absent:* Robert Dahn, Peter Drzewiecki, Joan Stevenson, Frank Trainor. *Others present:* JC Beall, Katrina Higgins, Grant Meitzler (Wetlands Agent), Greg Padick (Town Planner).

1. The meeting was called to order at 7:40p by Chair Quentin Kessel.
2. The draft minutes of the 20 May 09 meeting were approved as written.
3. **IWA referral W1433 (Beall & Higgins, Wormwood Hill Rd).** The applicants propose a single family house on a wooded lot on the S. side of Wormwood Hill Rd., about 500 ft. from the Ashford town line. (The lot is the “first cut” from one of the Green family parcels.) Portions of its driveway and septic system lie within 150 ft. of (and uphill from) a small wetland, c.120 ft. away at their closest points; the reserve septic system lies wholly within 150 ft. of the wetland, c.80 ft. away at its closest point. The wetland is probably not a vernal pool, as it appears to contain standing water only briefly. A **motion** (Kessell, Silander) finding no significant wetland impact as long as the erosion and sedimentation controls shown on the map are in place during construction was adopted – Kessell & Silander voting in favor, Lehmann (a friend of the applicants) abstaining.
4. **Windham Region Land Use Plan.** The Windham Council of Governments (WinCOG) is updating its 2002 Regional Land Use Plan for towns in the Windham Region. According to Town Planner Greg Padick, this plan is purely advisory. However, granting agencies pay attention to it, so any inconsistencies between the regional plan and state & town plans should be resolved before the 2009 update is approved. The Town aims to submit its comments to WinCOG by 06 August.

WinCOG’s goal is to keep the region attractive; the regional plan’s strategy is to encourage development in certain areas and to conserve the rest. Proposed land uses are shown on maps. Padick pointed to two areas in which Mansfield’s land-use plans and what these maps call for are not compatible:

 - The regional plan calls for preserving the area S. of Pleasant Valley Rd. and W. of Mansfield City Rd. from development, while Mansfield proposes a mixture of preservation and development.
 - The Warren property off Maple Rd. is now under contract for an assisted living facility, so this area would be intensely developed, though it is not identified as a development area on the regional map.

Padick suggested that CC members look carefully at the text and maps of the proposed 2009 update (available online at www.wincog.org) before the Commission’s 15 July meeting, with a view to formulating comments for the Town at that meeting.
5. **Common driveways.** Padick indicated he would be happy to discuss “Common driveways: their use and abuse” at another time.

6. Aquifer protection. Padick reviewed the status of stratified drift aquifer (SDA) protection in Mansfield. The only SDAs in town that fall under state's aquifer protection program are the Willimantic and Fenton River well-fields – the state regulates only SDAs with existing wells serving 1,000 or more people. Most of the other SDAs in Mansfield are in areas zoned 2-acre residential, which, in Padick's view, provides sufficient protection for them. The significant exceptions are the Storrs and Pleasant Valley areas, where more intense development could degrade SDAs.

Padick believes that present regulations, if modestly updated, would provide adequate protection for SDAs. An Aquifer Protection Overlay Zone setting forth special rules for development in aquifer areas is not needed, in his view. The prohibitions on certain kinds of development found in the Tolland and Ridgefield overlays can be achieved by zoning regulations. In particular, permitted uses of the Pleasant Valley zone can be restricted by prohibiting certain activities and/or requiring applicants to show that the activities they propose will not threaten the aquifer.

At the same time, Padick pointed out that most towns protect aquifers to protect water supply, whereas Pleasant Valley has access to all the water it needs from Mansfield Hollow Reservoir. At some point, the cost of increased aquifer protection will exceed its benefits. Protection for SDAs would be enhanced by prohibiting trucks carrying fuel oil and other hazardous materials on roads over these aquifers, but few would judge such a trade-off to be acceptable.

Padick suggested that the CC consider at its July meeting what changes to the Town's zoning regulations are needed to protect SDAs, and communicate its recommendations to him. He would then aim to provide a draft of revisions for consideration at our August meeting.

7. CL&P Interstate Reliability Project. CL&P's filing with the Connecticut Siting Council will be put off until fall, Padick reported.

8. Ponde Place. As far as Padick knows, the Ponde Place developers don't yet have a well permit from the Department of Public Health, which has asked them to study the effect of withdrawals on the movement of ground water from the old UConn chemical landfill.

9. Blight. Silander observed that many of the houses along Hunting Lodge Rd. are in poor shape and asked what the Town could do about it. Padick indicated that the Quality of Life Committee is working on it. The root of the problem, in his view, is a shortage of suitable off-campus student housing, which creates pressure for conversions.

10. The meeting **adjourned** at 9:05p. Next meeting: 7:30p, Wednesday, 15 July 09.

Scott Lehmann, Secretary
18 June 09

Memorandum:

July 1, 2009

To: Inland Wetland Agency
From: Grant Meitzler, Inland Wetland Agent
Re: Monthly Business

WI419 - Chernushek - hearing on Order

- 3.10.09: The hearing on the Order remains open and should continue until the permit application under consideration is acted upon.
(The Order was dropped on approval of the application required in the Order.)
- 4.30.09: Former rye grass seeding is beginning to show green. I spoke with Mr. Chernushek this afternoon who indicated health problems that delayed his starting but indicated he will be working this weekend. I will update on this Monday evening.
- 5.26.09: A light cover of grass growth has come in. Mr. Chernushek indicates health problems and two related deaths have delayed his start of work since the permit approval was granted. It appears that some light work has started. He has further indicated that he will start a vacation on June 22, 2009 to finish the work.
- 6.13.09: Work is underway.
- 6.21.09: Bulldozer work has been completed - finish work remains. The additional silt fencing has been placed along the northerly wetlands crossing, and the additional pipe under the southerly crossing has been installed. Remaining work includes finish grading along edges, spreading stockpiled topsoil, and establishing grass growth.
- 7.01.09: I spoke with Mr. Chernushek who indicated he expects work to be completed by September 1, 2009. (Site photo attached).

Bell - Bassetts Bridge Rd - Garden Center

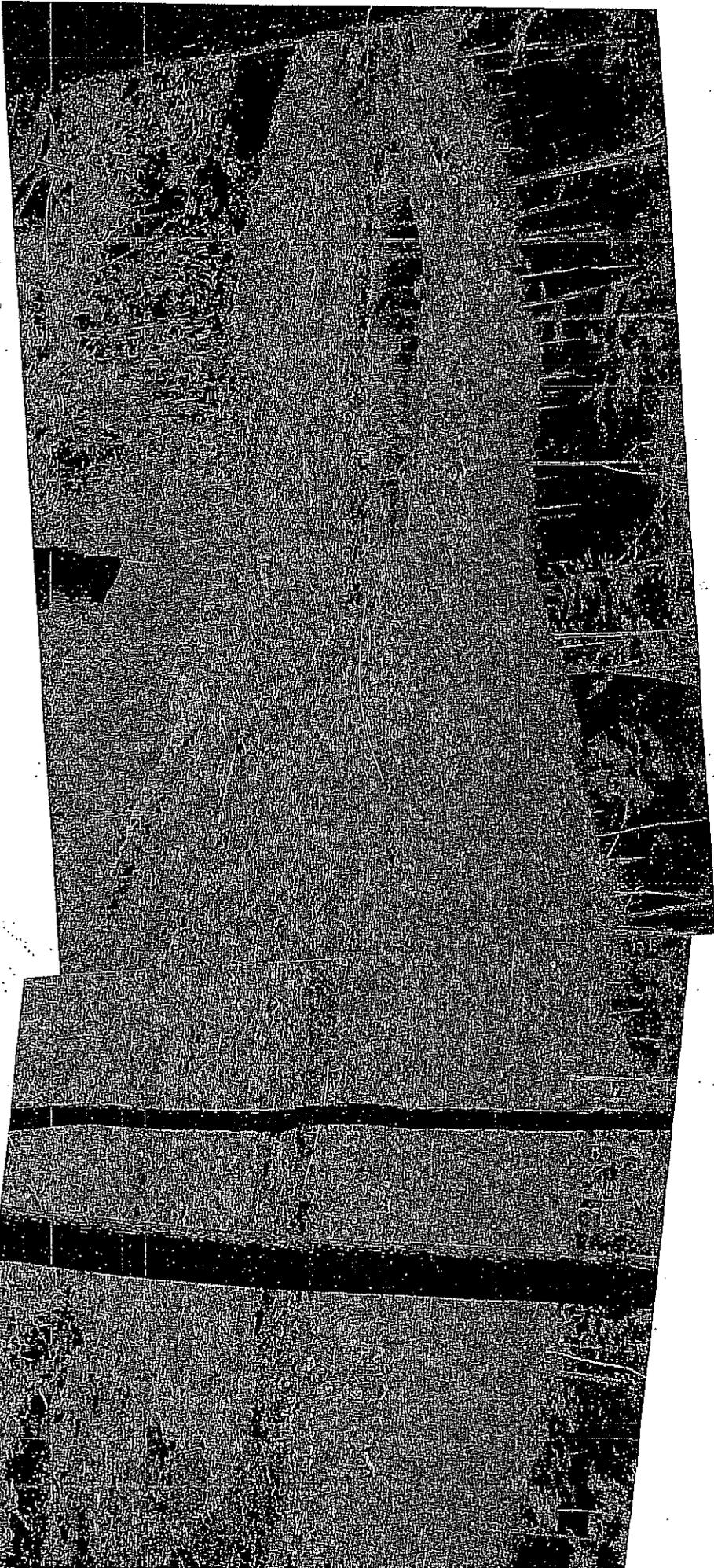
- 7.22.08: Areas immediately bordering wetlands are in full growth over areas formerly spread with wood chips. Work has been limited to sales operations and development of future greenhouse areas.
- 8.21.08: Inspection: No work in progress. Areas of future greenhouse now grown to grass, with areas of potted plants and piles of wood chips. Areas around the pond are protected with natural growth or wood chips. I saw no problems.
- 9.16.08: Minor mowing of brush has been done at lawn edges leading towards the pond area. Work remains consistent with the earlier wetlands approval.
- 10.14.08: Work has been very limited and is consistent with the present plant sale operations.
- 11.18.08: No change - site appears closed for the winter.
- 12.08.08: Light snow cover. No site work in progress.
- 1.08.09: Snow cover frozen. Site inactive.
- 2.17.09: No change.
- 4.01.09: Selective logging operation in progress in wooded areas away from the nursery operation. A few loads of wood chips are being spread along edges of ponded area.
- 4.14.09: As previous, preparations for opening plant sale areas are in progress.

- 5.08.09: They are open for the season and the site is in good shape.
6.10.09: Site remains in good shape.

Mansfield Auto Parts - Route 32

- 7.22.08: Inspection - no vehicles are within 25' of wetlands.
8.20.08: Inspection - no vehicles are within 25' of wetlands.
9.15.08: Inspection - no vehicles are within 25' of wetlands.
10.14.08: Inspection - no vehicles are within 25' of wetlands.
11.14.08: Inspection - no vehicles are within 25' of wetlands.
12.08.08: Inspection - no vehicles are within 25' of wetlands.
1.16.09: Inspection - no vehicles are within 25' of wetlands.
2.24.09: Inspection - no vehicles are within 25' of wetlands.
3.06.09: Inspection - no vehicles are within 25' of wetlands.
4.14.09: Inspection - no vehicles are within 25' of wetlands.
5.11.09: Inspection - no vehicles are within 25' of wetlands.
6.10.09: Inspection - no vehicles are within 25' of wetlands.

Chernyshok 7:01:09



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Chernyshok 7:01:09

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Memorandum:

July 1, 2009

To: Inland Wetland Agency

From: Grant Meitzler, Inland Wetland Agent

Re: W1433 - Beall & Higgins - Wormwood Hill Rd - SF house in buffer

plan reference: dated 5.26.2009

This application is for a single family house on a "first cut" parcel from the Green property.

There are two wetlands within the 150 foot regulated area:

1. there is a small wetland area located in a low area about 100 feet from the easterly property line,

This is an area mapped as about 12'x 25'. On a site visit today there was no standing water present. There was an area about 6 or 8 feet across that obviously has had standing water from time to time. This is a low lying very rocky area. The closest work shown scales as 84' (footing drain) and the reserve area is 79' away.

2. and on the opposite side of Wormwood Hill Rd there is a large pond about 70' away from the end of the proposed driveway.

The plan, and a visit to the site today indicated drainage from the site is directed away from this pond. A heavy tracking pad is provided to control sediment during the construction period that will run along the side of the road away from the pond and then drain into the lot itself.

The entire downhill side of the construction area is protected with silt fencing, and additional silt fencing is indicated around a designated topsoil stockpile location.

This seems a very straightforward proposal.

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Wetlands DRAFT Motion for: Beall & Higgins

Holt _____ moves and _____ seconds to grant/~~deny~~ an Inland Wetlands License under Section 5 of the Wetlands and Watercourses Regulations of the

Town of Mansfield to J.C. Beall and Katrina Higgins

(file W 1433) for a single family residence with on-site well and septic system,

on property owned by the applicants

located at Warmwood Hill Road

as shown on a map dated 5/26/2009 ~~and as shown on~~

and as described in other application submissions, ~~and as based at Public Hearing(s) on~~

This action is based on a finding of no anticipated significant impact on the wetlands, and is conditioned upon the following provisions being met:

- 1) ~~As shown on the plans~~ Erosion and sedimentation controls (as shown on the plans) shall be in place prior to construction, maintained during construction and removed when disturbed areas are completely stabilized;
- 2) ~~Maps shall not be signed until all DEP permit requirements have been addressed.~~

Beall + Higgins

(last) This approval is valid for a period of five years (until July 6, 2014), unless additional time is requested by the applicant and granted by the Inland Wetlands Agency. The applicant shall notify the Wetlands Agent before any work begins, and all work shall be completed within one year. Any extension of the activity period shall come before this agency for further review and comment.

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Memorandum:

July 1, 2009

To: Inland Wetland Agency
Planning & Zoning Commission
From: Grant Meitzler, Inland Wetland Agent
Assistant Town Engineer

We have received a letter requesting an additional 30 day extension of time for the hearing on this application in order to allow time for preparing a revision of the plans.

Continuing the hearing until July 20, 2009 is appropriate.



Development Solutions, L.L.C.

33 East Town Street, Norwich, Connecticut 06360
Fax: (860) 204-0652 • Phone: (860) 204-0248
dev.soln@sbcglobal.net

TO: The Inland Wetlands Agency

June 30, 2009

FROM: Pat Lafayette
Project Engineer/Agent

RE: Whispering Glen Condominium

My client, Whispering Glen LLC, has requested me to write the Wetlands Agency in order to grant the Agency a 30-day time extension on the public hearing process for this application.

Memorandum:

July 1, 2009

To: Inland Wetland Agency
From: Grant Meitzler, Inland Wetland Agent
Re: New Business for the July 6, 2009 meeting

Request for Renewal:

W1218 - Town of Mansfield - Birch Road Bikepath

| | | |
|--------------------------|---------------|-------|
| | yes | no |
| | ----- | ----- |
| fee paid | n.a. | |
| certified receipts | x | |
| map dated | June 30, 2009 | |

This application is a Request for Renewal of permit W1218 issued in 2003. These plans have been completely redrawn to reduce wetlands encroachments as much as possible, and to include experience gained in the recent bikepath construction by the town on Separatist and Hunting Lodge Roads.

The original permit was for both this section of the bikepath on Birch Rd and the section (now built) on Route 44. Due to funding constraints this Birch Rd section was not built with the Route 44 bikepath project.

As before, there are only two involvements with wetlands along this section of the bikepath - one next to the beginning of the bikepath at Route 44, and the other just to the east of the roundabout at the Birch Rd/Hunting Lodge Rd intersection.

Receipt and referral to the Conservation Commission is appropriate.

Request for Exemption:

W1434 - Town of Mansfield - Commonfields, Storrs Rd - Bird Blind

| | | |
|--------------------------|-------|-------|
| | yes | no |
| | ----- | ----- |
| fee paid | n.a. | |
| certified receipts | n.a. | |
| map dated | | |

This application is for a shed-like bird blind structure near the bog at the rear of the town property next to the Mansfield Center Cemetery.

This can qualify for a recreational exemption under Section 3.4 of the Mansfield wetlands regulations, provided the natural or indigenous character of the wetland is not disturbed. Silt fence is indicated between the blind and the edge of the bog to protect against siltation. This could be acted upon on Monday night, or may be received as an application and referred to the Conservation Commission for their review and comment.

New Applications:

W1435 - Bachiochi - Mansfield Hollow Rd - in-ground pool in buffer

| | yes | no |
|--|-------|-------|
| | ----- | ----- |

| | | |
|--------------------------|------------------------------------|--|
| fee paid | x | |
| certified receipts | x | |
| map dated | May 1989 with pool added 7.01.2009 | |

This application is for replacement of an above ground pool with an in ground pool. The pool location is within 150' of wetlands at the rear of the property.

Receipt and referral to the Conservation Commission is appropriate.

W1436 - Gaffney - Wildwood Rd - easement revision & pond excavation

| | yes | no |
|--|-------|-------|
| | ----- | ----- |

| | | |
|--------------------------|-----------------------------|--|
| fee paid | x | |
| certified receipts | x | |
| map dated | 4.29.1988 revised 6.29.2009 | |

Approval of this application requires modification of the existing conservation easement on the property. The applicant's map doesn't show the easement area accurately. A copy of the correct map is attached together with the easement itself. The document provides for modification of the easement conditions by the Wetlands Agency upon application by the property owner (item 9. page 5). This is thus a double application, one part is for the pond and clearing operation and the other is for modification of the easement.

Receipt and referral to the Conservation Commission is appropriate.

APPLICATION FOR PERMIT
MANSFIELD INLAND WETLANDS AGENCY
4 SOUTH EAGLEVILLE ROAD, STORRS, CT 06268
TEL: 860-429-3334 OR 429-3331
FAX: 860-429-6863

FOR OFFICE USE ONLY

File # W 1435
Fee Paid \$155-
Official Date of Receipt 6-25-09

Applicants are referred to the Mansfield Inland Wetlands and Watercourses Regulations for complete requirements, and are obligated to follow them. For assistance, please contact Grant Meitzler, Inland Wetlands Agent at the telephone numbers above.

Please print or type or use similar format for computer; attach additional pages as necessary.

Part A - Applicant

Name Peter Bachiochi

Mailing Address 78 Mansfield Hollow Rd

Mansfield, CT 06250

Zip 06250

Telephone-Home 860-423-0560 Telephone-Business _____

Title and Brief Description of Project

Sabrina Pools is proposing a permit to install a 18x36

Inground Swimming Pool

Location of Project 78 Mansfield Hollow Rd

Intended Start Date As Soon As permits Approved

Part B - Property Owner (if applicant is the owner, just write "same")

Name Same

Mailing Address _____

Zip _____

Telephone-Home _____ Telephone-Business _____

Owner's written consent to the filing of this application, if owner is not the applicant:

Signature _____ date _____

Applicant's interest in the land: (if other than owner) _____

Part C - Project Description (attach extra pages, if necessary)

1) Describe in detail the proposed activity here or on an attached page. (See guidelines at end of application - page 6.)

Please include a description of all activity or construction or disturbance:

- a) in the wetland/watercourse
- b) in the area **adjacent** to (within 150 feet from the edge of) the wetland/watercourse, even if wetland/watercourse is **off** your property

Sebina Pools is Applying that we take down a 27' Above Ground Pool & Install a 18 x 36 Inground Swimming Pool

2) Describe the amount or area of disturbance (in square feet or cubic yards or acres):

- a) in the wetland/watercourse
- b) in the area **adjacent** to (within 150 feet from the edge of) the wetland/watercourse, even if wetland/watercourse is **off** your property

3) Describe the type of materials you are using for the project: This is a Fiberglass walled pool with a vinyl liner

- a) include **type** of material used as fill or to be excavated _____
- b) include **volume** of material to be filled or excavated _____

4) Describe measures to be taken to minimize or avoid any adverse impacts on the wetlands and regulated areas (silt fence, staked hay bales or other Erosion and Sedimentation control measures).

Sebina Pools will be installing a silt fence to prevent any Erosion

Part D - Site Description

Describe the general character of the land. (Hilly? Flat? Wooded? Well drained? etc.)

Where the pool is proposed to go is all Flat

- 2) Notice to Adjoining Town. If your property is within 500 feet of an adjoining town, you must also send a copy of the application, on the same day you sent one to Mansfield, to the Inland Wetlands Agency of the adjoining town, by certified mail, return receipt requested.
- 3) The Statewide Reporting Form (attached) shall be part of the application and specified parts must be completed and returned with this application.

Part J - Other Impacts To Adjoining Towns, if applicable

- 1) Will a significant portion of the traffic to the completed project on the site use streets within the adjoining municipality to enter or exit the site? ___ Yes ___ No ___ Don't Know
- 2) Will sewer or water drainage from the project site flow through and impact the sewage or drainage system within the adjoining municipality? ___ Yes ___ No ___ Don't Know
- ~~3) Will water run-off from the improved site impact streets or other municipal or private property within the adjoining municipality? ___ Yes ___ No ___ Don't Know~~

Part K - Additional Information from the Applicant

Set forth (or attach) any other information which would assist the Agency in evaluating your application. *(Please provide extra copies of any lengthy documents or reports, and extra copies of maps larger than 8.5" x 11", which are not easily copied.)*

Part L - Filing Fee

Submit the appropriate filing fee. (Consult Wetlands Agent for the fee schedule available in the Mansfield Inland Wetlands and Watercourses Regulations.)
 ___ \$385. ___ \$110. ___ \$60. ___ \$25.

Note: The Agency may require you to provide additional information about the regulated area which is the subject of the application, or about wetlands or watercourses affected by the regulated activity. If the Agency, upon review of your application, finds the activity proposed may involve a "significant activity" as defined in the Regulations, additional information and/or a public hearing may be required.

The undersigned applicant hereby consents to necessary and proper inspections of the above mentioned property by members and agents of the Inland Wetlands Agency, at reasonable times, both before and after the permit in question has been granted by the Agency.

Peter Baehnel

Applicant's Signature

10/26/09
Date

PAGE
BREAK

APPLICATION FOR PERMIT
MANSFIELD INLAND WETLANDS AGENCY
4 SOUTH EAGLEVILLE ROAD, STORRS, CT 06268
TEL: 860-429-3334 OR 429-3331
FAX: 860-429-6863

FOR OFFICE USE ONLY

File # W 1436
Fee Paid \$155
Official Date of Receipt 6-29-09

Applicants are referred to the Mansfield Inland Wetlands and Watercourses Regulations for complete requirements, and are obligated to follow them. For assistance, please contact Grant Meitzler, Inland Wetlands Agent at the telephone numbers above.

Please print or type or use similar format for computer; attach additional pages as necessary.

Part A - Applicant

Name MATTHEW GAFFNEY

Mailing Address 125 WILDWOOD RD

STORRS CT

Zip 06268

Telephone-Home 429 4394 Telephone-Business _____

Title and Brief Description of Project

DIG OUT BROOK AREA Between WILDWOOD RD

stone wall to create ~90' x 30' SHALLOW FIRE POND

Location of Project 125 WILDWOOD RD

Intended Start Date ASAP

Part B - Property Owner (if applicant is the owner, just write "same")

Name SAME

Mailing Address _____

Zip _____

Telephone-Home _____ Telephone-Business _____

Owner's written consent to the filing of this application, if owner is not the applicant:

Signature _____ date _____

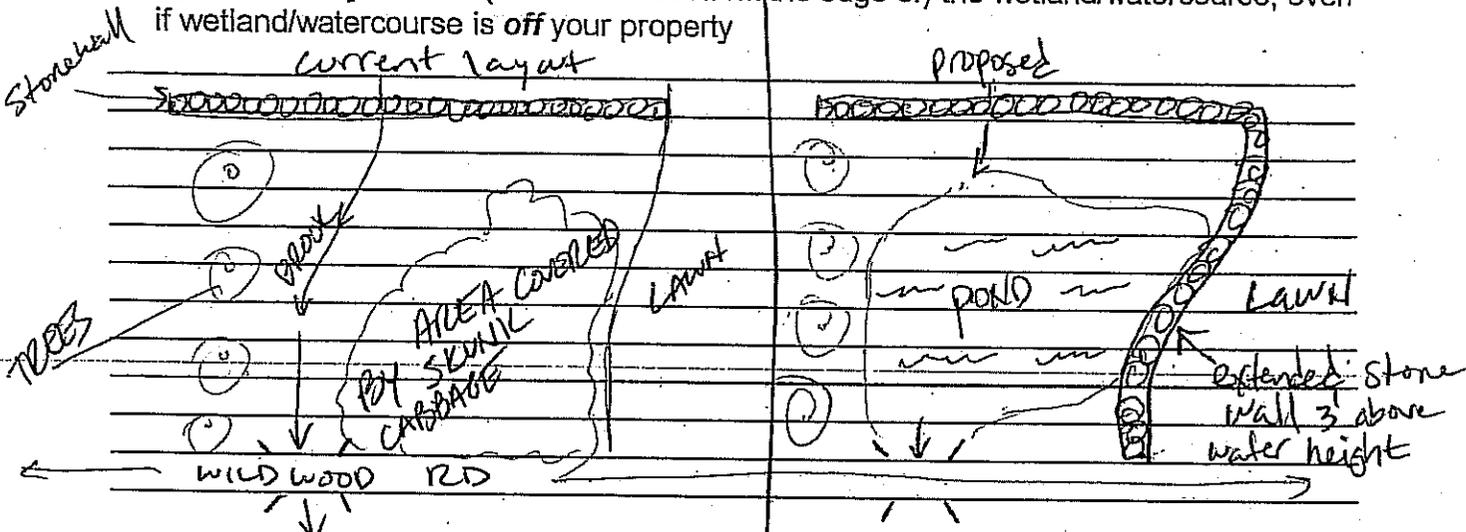
Applicant's interest in the land: (if other than owner) _____

Part C - Project Description (attach extra pages, if necessary)

1) Describe in detail the proposed activity here or on an attached page. (See guidelines at end of application – page 6.)

Please include a description of all activity or construction or disturbance:

- a) in the wetland/watercourse
- b) in the area adjacent to (within 150 feet from the edge of) the wetland/watercourse, even if wetland/watercourse is off your property



2) Describe the amount or area of disturbance (in square feet or cubic yards or acres):

- a) in the wetland/watercourse
- b) in the area adjacent to (within 150 feet from the edge of) the wetland/watercourse, even if wetland/watercourse is off your property

A BACKHOE AND/OR ESCAVATOR WILL BE USED TO REMOVE MATERIAL FROM BROOK AREA, APPROX 8000 SQ. FT OF MATERIAL WILL BE DUG UP

3) Describe the type of materials you are using for the project: WALL STONE, MATERIAL DUG OUT OF THE BROOK WILL BE USED TO ADD HEIGHT TO ADJACENT LAWN

- a) include **type** of material used as fill or to be excavated _____
- b) include **volume** of material to be filled or excavated _____

4) Describe measures to be taken to minimize or avoid any adverse impacts on the wetlands and regulated areas (silt fence, staked hay bales or other Erosion and Sedimentation control measures).

HAY BALES IN FRONT OF PIPE THAT GOES UNDER WILDWOOD RD.

Part D - Site Description

Describe the general character of the land. (Hilly? Flat? Wooded? Well drained? etc.)

LAWN THAT DROPS ELEVATION INTO BROOK AREA, TREES ON OPPOSITE SIDE

Part E - Alternatives

Have you considered any alternatives to your proposal that would meet your needs and might have less impact on the wetland/watercourse? Please list these alternatives.

yes, just extend the stone wall, increase height
of lawn and NOT dig out the brook

Part F - Map/Site Plan (all applications)

1) Attach to the application a map or site plan showing **existing conditions** and the **proposed project** in relation to wetland/ watercourses. Scale of map or site plan should be 1" = 40'; if this is not possible, please indicate the scale that you are using. A sketch map may be sufficient for small, minor projects. (See guidelines at end of application - page 6.)

- 2) Applicant's map date and date of last revision _____
- 3) Zone Classification _____
- 4) Is your property in a flood zone? Yes No Don't Know

Part G - Major Applications Requiring Full Review and a Public Hearing
See Section 6 of the Mansfield Regulations for additional requirements.

Part H - Notice to Abutting Property Owners

1) List the names and addresses of abutting property owners

| Name | Address |
|-----------------------------------|-----------------|
| ROBERT MILLER | 117 WILDWOOD RD |
| MIKE SIKOSKI | 135 WILDWOOD RD |
| WILLIE SPRUELL | 119 WOODLAND RD |
| Allen Barstow | 139 WOODLAND RD |
| FRANCES NICHOLS | 105 WILDWOOD RD |
| RALPH & DEBRA MANSELL | 101 WOODLAND RD |
| JEFFREY KOBERSTEIN & LINDA FARMER | 116 WILDWOOD RD |

2) **Written Notice to Abutters** . You must notify abutting property owners by certified mail, return receipt requested, stating that a wetland application is in progress, and that abutters may contact the Mansfield Inland Wetlands Agent for more information. Include a brief description of your project. Postal receipts of your notice to abutters must accompany your application. (This is not needed for exemptions).

Part I - Additional Notices, if necessary

1) Notice to Windham Water Works is attached. If this application is in the public watershed for the Windham Water Works (WWW), you must notify the WWW of your project within 7 days of sending the application to Mansfield—sending it by certified mail, return receipt requested. Contact the Mansfield Inland Wetlands Agent to find out if you are in this watershed.

- 2) Notice to Adjoining Town. If your property is within 500 feet of an adjoining town, you must also send a copy of the application, on the same day you sent one to Mansfield, to the Inland Wetlands Agency of the adjoining town, by certified mail, return receipt requested.
- 3) The Statewide Reporting Form (attached) shall be part of the application and specified parts must be completed and returned with this application.

Part J - Other Impacts To Adjoining Towns, if applicable

- 1) Will a significant portion of the traffic to the completed project on the site use streets within the adjoining municipality to enter or exit the site? ___ Yes ___ No ___ Don't Know
- 2) Will sewer or water drainage from the project site flow through and impact the sewage or drainage system within the adjoining municipality? ___ Yes ___ No ___ Don't Know
- ~~3) Will water run-off from the improved site impact streets or other municipal or private property within the adjoining municipality? ___ Yes ___ No ___ Don't Know~~

Part K - Additional Information from the Applicant

Set forth (or attach) any other information which would assist the Agency in evaluating your application. *(Please provide extra copies of any lengthy documents or reports, and extra copies of maps larger than 8.5" x 11", which are not easily copied.)*

Part L - Filing Fee

Submit the appropriate filing fee. (Consult Wetlands Agent for the fee schedule available in the Mansfield Inland Wetlands and Watercourses Regulations.)

___ \$385. ___ \$110. ___ \$60. ___ \$25.

Note: The Agency may require you to provide additional information about the regulated area which is the subject of the application, or about wetlands or watercourses affected by the regulated activity. If the Agency, upon review of your application, finds the activity proposed may involve a "significant activity" as defined in the Regulations, additional information and/or a public hearing may be required.

The undersigned applicant hereby consents to necessary and proper inspections of the above mentioned property by members and agents of the Inland Wetlands Agency, at reasonable times, both before and after the permit in question has been granted by the Agency.

Applicant's Signature

6/22/09

Date

3'20" E

3.03' ±

35' ±

N/F

ARMOND A. & JEAN C

N/F

MERVIN WALKER

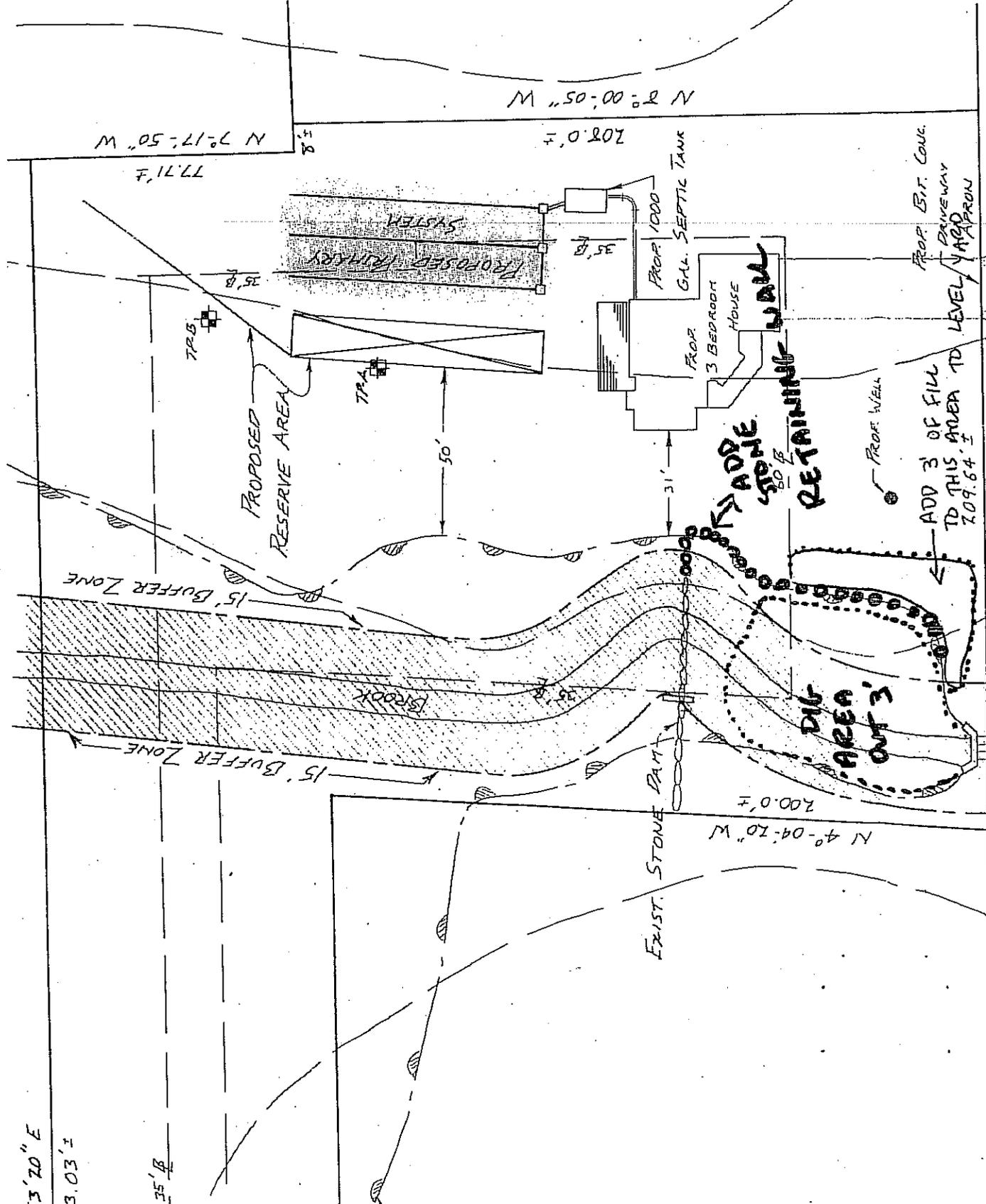
4.50

M 7°17'50" W

77.11'

M 50°00' ± N

208.0' ±



plan date
4-29-88
revised

WILDWOOD ROAD

PAGE
BREAK

GAFFNEY - WILDWOOD

20097

CONSERVATION AND PROTECTION EASEMENT

THIS INDENTURE, made this 8th day of August, 1988.

WHEREAS, Ronnie Nichols, residing at 105 Wildwood Road, hereinafter called the Grantor, is the owner in fee simple of certain real property, which property is described as follows:

a parcel of land containing 2.0470 acres shown and designated on a map filed in Map Volume 8, page 15, on file in the Land Records of the Town of Mansfield. Said map being entitled: "Plan of Clark Property Subdivision of Wildwood, and Woodland Road, Mansfield, Connecticut - June 1970 - scale 1" = 50' - certified substantially correct to Class A-2 by Volny Blodgett LS #7748." Said premises being bounded on the north by land of Allen M. and Julia M.U. Barstow, on the east by land now or formerly of Armand and Jean C. Robitaille and land now or formerly of Mervin Walker as shown on said map in part by each, southernly by said Wildwood Road and land now or formerly of Lester and Joan Littlefield in part by each; and westernly by said Littlefield land and land now or formerly of Frances Nichols in part by each. And which land was acquired by the Grantor herein from Leonard Clark by Deed dated March 7, 1972, which deed is recorded in the Mansfield Land Records at Volume 116 Page 437.

and:

WHEREAS, the Grantor has agreed to give to the Town of Mansfield a certain easement for the purpose of Conservation and Protection on a portion of the above described premises, which easement is more particularly described on a map entitled: "Boundary Survey Map - prepared for Steven Hepple - Wildwood Road - Mansfield, Connecticut - Charles T. Camp & Associates - Norwich, Connecticut 06360 - 886-9228 - scale 1" = 40' - Job No. 988052 - Date 7-11-88 - 1 of 1 sheets," showing revision 7-27-88, which map bears the signature and seal of Charles T. Camp, LS #14650, and which map is recorded or to be recorded in the Mansfield Land Records.

Easement area: being a portion of said land, as shown on the above last referenced map, hereinafter called the "Protected Property", which has ecological, scientific, educational and aesthetic value in its present state as a natural and undisturbed area.

Reserving to the Grantor a right of access over and across said easement area to gain access to other portions of the said land which

See item 9, page 5 ①

are not within this easement, and to which access may not be had without crossing land of others,

and,

WHEREAS, THE TOWN OF MANSFIELD, acting by and through its Inland Wetland Agency, hereinafter called the Grantee, is a municipal corporation incorporated under the laws of the State of Connecticut, and Charter of the Town of Mansfield; whose interest is to conserve and protect the natural area within the Protected Property and its surrounding protective buffer areas, for ecological, scientific, educational, aesthetic, historic, and charitable purposes; and

WHEREAS, the Protected Property is a unique natural area, and which area has substantial significance, as an arboreal, geological, historical, natural, scenic and educational resource; and

WHEREAS, the Inland Wetland Agency is authorized, pursuant to Sections 7-131 a (b) and 22a-42b of the Connecticut General Statutes, to acquire easements in the name of the Grantee, the Town of Mansfield, with the approval of the Mansfield Town Council; and

WHEREAS, the approval of the Town Council for this acquisition was obtained at its meeting on August 8, 1988.

NOW, THEREFORE, the Grantor, for and in consideration of the facts above recited and of the mutual covenants, terms, conditions and restrictions herein contained and as an absolute and unconditional gift, does hereby give, grant, bargain, sell and convey unto the Grantee, its successors and assigns forever a Conservation and Protection Easement in perpetuity over the Protected Property, consisting of the following:

1. The right of visual access to and view of the Protected Property in its natural, scenic and open condition.
2. The right of the Grantee, in a reasonable manner and at reasonable times to enforce by proceedings at law, or in equity, the Covenants hereinafter set forth, including but not limited to the right to require the restoration of the Protected Property to the condition at the time of this grant. The Grantee, or its successors or assigns, does not waive or forfeit the right to take action as may be necessary to insure compliance with the Covenants and purposes of this grant by any prior failure to act. Nothing herein shall be construed to entitle the Grantee to institute any enforcement proceedings against the Grantor for any changes to the Protected Property due to causes beyond the Grantor's control, such as changes caused by fire, floods, storm or the unauthorized acts of third persons. In the event that the Grantee becomes aware of an event or circumstances of non-compliance with the terms and conditions herein set forth, the Grantee shall give notice to the Grantor, his successors or assigns, at his last known post office address, of such event or circumstances, of

(2)

non-compliance via certified mail, return receipt requested, and request corrective action sufficient to abate such event or circumstance of non-compliance and restore the Protected Property to its previous condition. Failure by the Grantor to cause discontinuance, abatement or such other corrective action as may be requested by the Grantee, under the terms of this easement, within thirty (30) days after receipt of such notice shall entitle the Grantee:

- A. to bring an action at law or equity in a court of competent jurisdiction to enforce the terms of this easement;
- B. to require the restoration of the Protected Property to its former condition;
- C. to enjoin such non-compliance by ex parte temporary or permanent injunction in a court of competent jurisdiction to enforce the terms of this easement; and/or
- D. to recover any damages arising from such non-compliance.

Such damages, when recovered, may be applied by the Grantee, in its discretion, to corrective action on the Protected Property, if necessary. If such court determines that the Grantor has failed to comply with the terms and conditions of this easement, the Grantor shall reimburse the Grantee for any reasonable costs of enforcement, including costs of restoration, court costs and reasonable attorney's fees, in addition to any other payments ordered by such court. The Grantor hereby waives any defense of laches with respect to any delay by the Grantee, its successors or assigns, in acting to enforce any restriction or exercise any rights under this Easement.

- 3. The right to enter the Protected Property at all reasonable times and, if necessary, across other lands retained by the Grantor, for the purposes of:
 - A. inspecting the Protected Property to determine if the Grantor, or his successors or assigns, is complying with the Covenants and purposes of this Easement;
 - B. enforcing the terms of this Conservation and Preservation Easement;
 - C. taking any and all actions with respect to the Protected property as may be necessary or appropriate, with or without order of the court, to remedy or abate violations hereof; and
 - D. observing and studying nature and making scientific and educational observations and studies (including sampling) in such manner as will not disturb the quiet enjoyment of the Protected Property by the Grantor, his successors and assigns.
- 4. The right, but not the obligation, to monitor the condition of any rare plant and animal populations and plant communities of the

(3)

Protected Property, and to manage them, if necessary, for their continued survival and quality on the Protected Property.

And in furtherance of the foregoing affirmative rights, the Grantor makes the following Covenants, on behalf of himself, his successors and assigns, which covenants shall run with and bind the Protected Property in perpetuity:

COVENANTS

Recognizing the unique and fragile nature of the Protected Property, there shall be no:

1. disturbance of the surface of the land, or of any plants,
2. removal, destruction or cutting of trees or plants, planting of trees or plants, use of fertilizers, spraying with biocides or chemical treatments of any kind, introduction of non-native animals, grazing of domestic animals, or disturbance or change in the natural habitat in any manner,
3. construction or maintenance of buildings, fences, signs, billboards, or any structure, construction or signing of any type, whether permanent or temporary,
4. filling, excavating, dredging, mining or drilling, removal of topsoil, peat, sand, gravel, rock, minerals, or other soil or rock materials, nor any building of roads or paths, whether for farm or other purposes, or change in the topography of the land in any manner,
5. dumping of any material, such as ashes, trash, garbage, or other unsightly or offensive material, and no changing of the topography through the placing of soil or other substance or material such as land fill or dredging spoils, nor shall activities be conducted on the Protected Property or on adjacent property which would cause erosion, siltation, sedimentation, or other detrimental effect on the Protected Property,
6. alteration or manipulation of the ground surface, whether it be natural watercourses, swamp, shore, marsh, or other water bodies or areas tributary to any such areas, nor shall activities be conducted on the Protected Property which would or could be detrimental to water quality, purity, or which would or could alter the natural water level or flow at any area within the Protected Property,
7. operation of snowmobile, dunebuggy, motorcycle, all terrain vehicle, tractor, bicycle, or any other type of motorized or

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unmotorized vehicle or equipment which would or could cause disturbance of the area,

8. hunting or trapping unless specifically approved in writing by the Grantee as provided herein,

9. change, whatsoever, in use, of any kind, of the Protected Property without consultation in writing with the Grantee in order to maintain the delicate ecological balance of the area, as well as the Protected Property. It is recognized that the Grantee may have to consult experts to determine the advisability of any such request, and in the event that the Grantee wishes to consult any such expert or experts, which consultation will result in a delay of more than 30 days in responding to such request, the Grantee shall so inform the Grantor in writing, as provided herein, of the need for time to respond to the request for change of use. The Grantor shall not commence any such change of use until the Grantee has responded as provided herein. Both parties to this Easement recognize that such response may require lengthy time delay because of the likely need for expert consultation and study to determine the probable effect of any proposed change of use of the Protected Property,

at any location, whatsoever, on the Protected Property, without prior express written consent from the Grantee.

Nothing contained in this Conservation and Preservation Easement shall give or grant to the public a right to enter upon or use the Protected Property or any portion thereof where no such right existed in the public immediately prior to the execution of this Easement.

The Grantor, for himself and on behalf of his successors and assigns, agrees to pay any real estate taxes or other assessments levied by competent authorities on the Protected Property but, in this regard, the Grantor shall be entitled to apply for a revaluation pursuant to Section 7-131 b (b) of the Connecticut General Statutes, and to relieve the Grantee from any duty or responsibility to maintain the Protected Property other than in its natural condition at the time of execution of this Easement. Any maintenance of the area, required because of fire, flood, storm, blight, infestation, or any other natural or unnatural imbalance, requiring activity not in accordance with the restrictions of this Easement as set forth hereinbefore, or the provision of restricted access for purpose of specific scientific study, shall be the responsibility of the Grantee, and not the Grantor, except to the extent that such condition of detrimental imbalance results from failure of the Grantor to act according to the provisions of this Easement.

If any provision of this Conservation and Preservation Easement or the application thereof to any person or circumstance is found to be invalid, the remainder of the provisions of the Easement and the application of such provisions to persons or circumstances other than



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those as to which it is found to be invalid shall not be affected thereby.

The covenants agreed to and the terms, conditions, restrictions and purposes imposed with this grant shall not only be binding upon the Grantor but also his lessees, agents, personal representatives, successors and assigns, and all other successors to him in interest and shall continue as a servitude running in perpetuity with the Protected Property.

And the Grantor does further covenant and represent that the Grantor is seized of the Protected Property in fee simple and has good right to grant and convey the aforesaid Conservation and Preservation Easement, and that the Protected Property is free and clear of any and all encumbrances, and that the Grantee shall have the use of and enjoy all of the benefits derived from and arising out of the aforesaid Easement.

TO HAVE AND TO HOLD the said Conservation and Preservation Easement unto the said Grantee, its successors and assigns forever.

IN WITNESS WHEREOF, the Grantor has executed and sealed this document the day, month, and year first above written.

Witness: Patricia A. O'Neil Ronnie Nichols
 PATRICIA A. O'NEIL Ronnie Nichols

Grant Meitzler
 GRANT MEITZLER

State of Connecticut)
) ss. Mansfield
 County of Tolland)

date: AUGUST 8, 1988

Personally appeared Ronnie Nichols, signer of the foregoing instrument, and acknowledged the same to be his free act and deed, before me.

Jean Quarta
 Jean Quarta / PUBLIC
 Notary Public
 My commission expires March 31, 1993

6

Item # 20097 Received for Record August 31, 1988
 at 4:37 p.m. Attest Redeign C. Edwards Town Clerk

FOR OFFICE USE ONLY

File # W 1434
Fee Paid Waived Official Date of Receipt 6-22-09 (P)

REQUEST FOR EXEMPTION

Applicants are referred to the Mansfield Inland Wetlands and Watercourses Regulations for complete requirements, and are obligated to follow them. For assistance, please contact Grant Meitzler, Inland Wetlands Agent at the telephone numbers above.

Please print or type or use similar format for computer; attach additional pages as necessary.

Part A - Applicant

Name Town of Mansfield Parks and Recreation/Chan-Soo Kim, Eagle Scout Candidate.

Mailing Address 10 South Eagleville Road
Storrs-Mansfield, CT Zip 06268

Telephone-Home _____ Telephone-Business 860-429-3015 x204

Title and Brief Description of Project Installation of a bird blind at Commonfields adjacent to the Col. Experience Storrs Bog for wildlife viewing.

Location of Project Commonfields, Storrs Road, just south of the cemetery.

Intended Start Date ASAP

Part B - Property Owner (if applicant is the owner, just write "same")

Name same

Mailing Address _____

Zip _____

Telephone-Home _____ Telephone-Business _____

Owner's written consent to the filing of this application, if owner is not the applicant:

Signature _____ date _____

Applicant's interest in the land: (if other than owner) _____

Part C - Project Description (attach extra pages, if necessary)

- 1) Describe in detail the proposed activity here or on an attached page. (See guidelines at end of application – page 6.)

Please include a description of all activity or construction or disturbance:

- a) in the wetland/watercourse
b) in the area **adjacent** to (within 150 feet from the edge of) the wetland/watercourse, even if wetland/watercourse is **off** your property

1) See Attached project description

a) There will be no activity in the wetland/watercourse

b) Approximately six to eight feet from the wetland edge, we propose to construct a 10x6x8 bird blind. A detailed description of the structure is attached. Activity within the regulated area includes the excavation of six post holes for sonotube installation. These holes will be back filled with existing material.

- 2) Describe the amount or area of disturbance (in square feet or cubic yards or acres):

- a) in the wetland/watercourse
b) in the area **adjacent** to (within 150 feet from the edge of) the wetland/watercourse, even if wetland/watercourse is **off** your property

a) none

b) $\frac{1}{2}$ yd³ as a result of sonotube installation

- 3) Describe the type of materials you are using for the project: Sonotubes, cement, lumber. In addition, the project will include minor brush trimming.

a) include **type** of material used as fill or to be excavated six post holes excavated and back filled with existing materials.

b) include **volume** of material to be filled or excavated 1/2 yd³

- 4) Describe measures to be taken to minimize or avoid any adverse impacts on the wetlands and regulated areas (silt fence, staked hay bales or other Erosion and Sedimentation control measures). A silt fence will be placed between the construction area and the wetland edge during construction.

Part D - Site Description

Describe the general character of the land. (Hilly? Flat? Wooded? Well drained? etc.)

Level to genty sloping. Well drained.

Part E - Alternatives

Have you considered any alternatives to your proposal that would meet your needs and might have less impact on the wetland/watercourse? Please list these alternatives.

Initially we thought of placing the bird blind directly on the ground without using sonotubes. After consulting officials at the building department we were advised against this method. Sonotubes will maintain the integrity of the structure over time. In order for this structure to provide optimal wildlife viewing and educational benefit, it must be placed directly adjacent to the wetland.

Part F - Map/Site Plan (all applications)

1) Attach to the application a map or site plan showing **existing conditions** and the **proposed project** in relation to wetland/ watercourses. Scale of map or site plan should be 1" = 40'; if this is not possible, please indicate the scale that you are using. A sketch map may be sufficient for small, minor projects. **(See guidelines at end of application – page 6.)**

2) Applicant's map date and date of last revision June 22, 2009

3) Zone Classification RAR 90

4) Is your property in a flood zone? Yes No Don't Know

Part G - Major Applications Requiring Full Review and a Public Hearing

See Section 6 of the Mansfield Regulations for additional requirements.

Part H - Notice to Abutting Property Owners

1) List the names and addresses of abutting property owners

| Name | Address |
|-----------------------|---------|
| Request for exemption | |

2) **Written Notice to Abutters** : You must notify abutting property owners by certified mail, return receipt requested, stating that a wetland application is in progress, and that abutters may contact the Mansfield Inland Wetlands Agent for more information. Include a brief description of your project. **Postal receipts of your notice to abutters must accompany your application.** (This is not needed for exemptions).

Part I - Additional Notices, if necessary

1) Notice to Windham Water Works is attached. If this application is in the public watershed for the Windham Water Works (WWW), you must notify the WWW of your project within 7 days of sending the application to Mansfield—sending it by certified mail, return receipt requested. Contact the Mansfield Inland Wetlands Agent to find out if you are in this watershed.

- 2) Notice to Adjoining Town. If your property is within 500 feet of an adjoining town, you must also send a copy of the application, on the same day you sent one to Mansfield, to the Inland Wetlands Agency of the adjoining town, by certified mail, return receipt requested.
- 3) The Statewide Reporting Form (attached) shall be part of the application and specified parts must be completed and returned with this application.

Part J - Other Impacts To Adjoining Towns, if applicable

- 1) Will a significant portion of the traffic to the completed project on the site use streets within the adjoining municipality to enter or exit the site? ___ Yes ___ No ___ Don't Know
- 2) Will sewer or water drainage from the project site flow through and impact the sewage or drainage system within the adjoining municipality? ___ Yes ___ No ___ Don't Know
- 3) Will water run-off from the improved site impact streets or other municipal or private property within the adjoining municipality? ___ Yes ___ No ___ Don't Know

Part K - Additional Information from the Applicant

Set forth (or attach) any other information which would assist the Agency in evaluating your application. *(Please provide extra copies of any lengthy documents or reports, and extra copies of maps larger than 8.5" x 11", which are not easily copied.)*

Part L - Filing Fee

Submit the appropriate filing fee. (Consult Wetlands Agent for the fee schedule available in the Mansfield Inland Wetlands and Watercourses Regulations.)

___ \$1,000. ___ \$750. ___ \$500. ___ \$250. ___ \$125. ___ \$100. ___ \$50. ___ \$25.
 ___ \$30 State DEP Fee

Note: The Agency may require you to provide additional information about the regulated area which is the subject of the application, or about wetlands or watercourses affected by the regulated activity. If the Agency, upon review of your application, finds the activity proposed may involve a "significant activity" as defined in the Regulations, additional information and/or a public hearing may be required.

The undersigned applicant hereby consents to necessary and proper inspections of the above mentioned property by members and agents of the Inland Wetlands Agency, at reasonable times, both before and after the permit in question has been granted by the Agency.

Sniff Kaufman
 Applicant's Signature

6/22/2009
 Date

Bird Blind Eagle Scout Project

Submitted by Chan-Soo Kim, Eagle Scout Candidate'

To fulfill the requirement of Eagle Scout I plan to construct a bird blind that is 10' x 6' x 8' at the Colonel Experience Storrs Bog, on Storrs Road. This structure will be built within the regulated area for wetlands. This area is the best location for the structure because its wetland habitat provides prime birding opportunities. The only disturbance to the wetlands involves digging six holes where I will place sonotubes to ensure that the structure is secure.

I will begin by building the base and the walls at the lot of the nearby Home Selling Team. I have received permission to use the lot from Mr. Jack Fulton, who is an employee at the Home Selling Team. After I create the 6 different pieces, (top, bottom, 2 walls, front, and back) I will use my scoutmaster's truck to move the pieces to the bog. At the bog, I will excavate 6 sonotubes of 8" diameter into the soil at a depth of 3.5'. I will attach (bolt) my base to these sonotubes. During construction, I will place a silt fence between the construction area and the wetland as a means to control erosion and sedimentation.

The following are the detailed procedures to build the 6 different pieces:
I will first build the base by laying out a rectangle made of 2 x 8 pressure treated wood. Then, I will lay more 2 x 8 joists, 16" apart on the inside. I will then use a nail gun to nail the four outer pieces together. I will then nail in the inner joists. Afterwards, I will complete the base by attaching the flat sides of 2 x 8 wood on top of the initial structure. After completing the base I will make two of the side walls. Each will be made by laying out 13 pieces of 2 x 4 wood ½ in. apart from each other. I will then lay 2 supporting pieces of 2 x 6 wood on top of it. I will then nail the entire wall together.

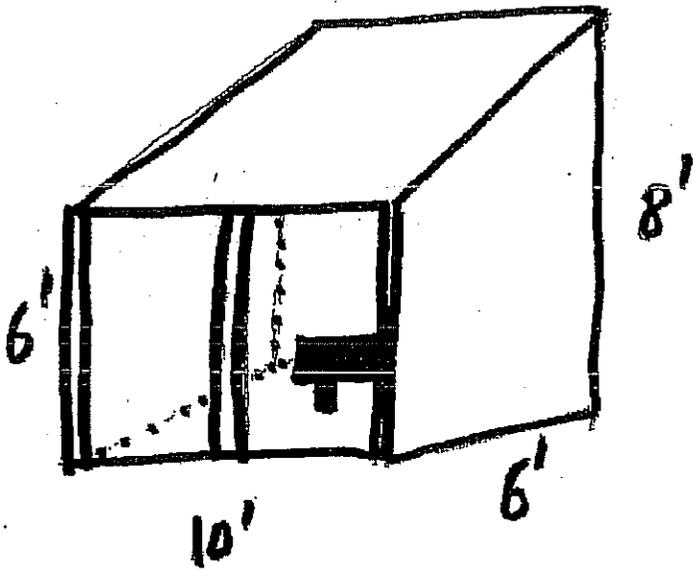
Now, I will create the front similarly. I will lay out 13 pieces of 5/4 x 6 wood and add two supporting 2 x 4 pieces at the edge of where the windows will be. I will then nail the front together and cut out the windows.

The back will be made of 5 pieces of 2 x 4 wood. To accommodate the Town of Mansfield's site specific needs, I will leave the back mostly open to prevent vandalism.

I will then make the roof out of 1x10 tongue-and-groove lumber with a metal sheathing on top.

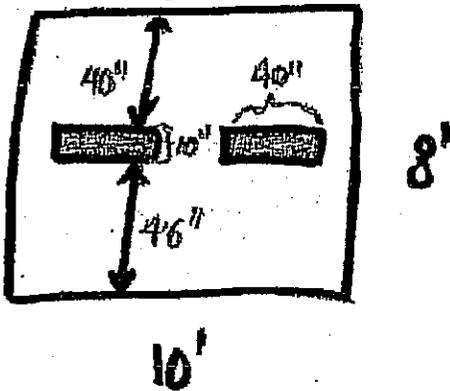
I will bring the separate pieces to the bog. At the bog, I will lay down the base and bolt it to the sonotubes. I will then create a bench and bolt it to the base. I will assemble the rest of the structure, including the walls and the roof, there. Finally, I will place a wood preservative on the structure to lessen the maintenance of the structure,

Attached is a diagram of the proposed bird blind.



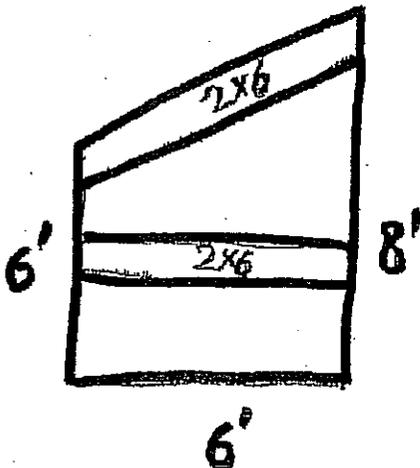
■ = Bench

FRONT



NOTE: Both windows will be identical.

WALLS



Roof

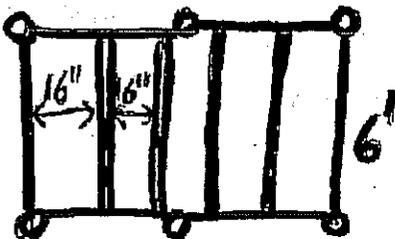


■ = supports (will be placed evenly apart)

$$2\sqrt{10}' \approx 6.32'$$

10'

Bottom

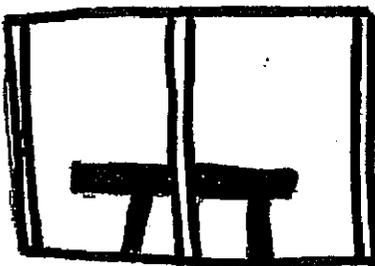


○ = Sonotubes

Joists will be 16" apart.

10'

Back



■ = Bench

10'

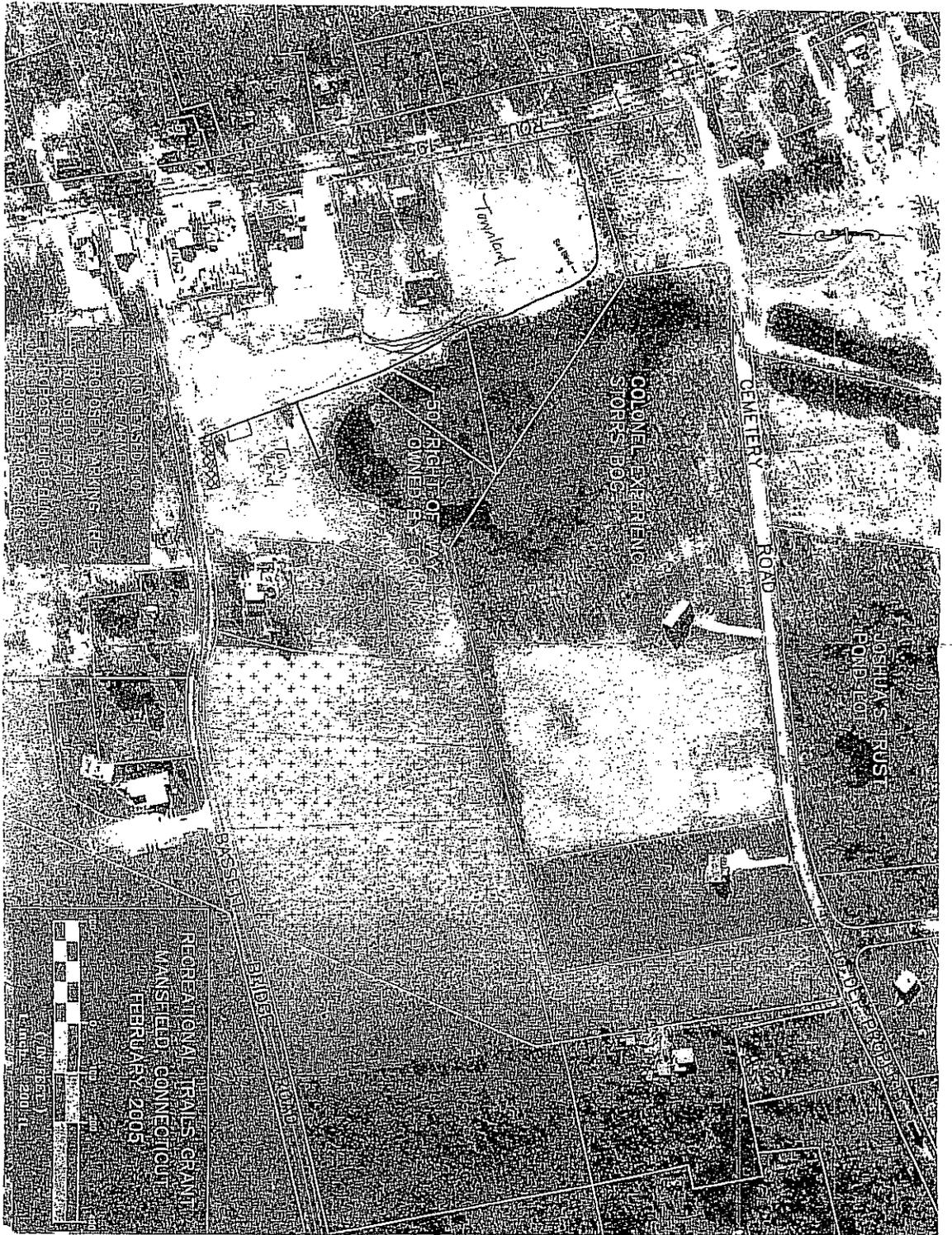
“After” Photographs

Including photographs of your completed project (along with the “before” photographs) helps present a clearer overall understanding of your effort.



Bird Blind design is based on this above photos of an existing bird blind located at the Baffin Sanctuary in Pomfret

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Revised
June 27, 2009

PAGE
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Renewal Request

APPLICATION FOR PERMIT
MANSFIELD INLAND WETLANDS AGENCY
4 SOUTH EAGLEVILLE ROAD, STORRS, CT 06268
TEL: 860-429-3334 OR 429-3331
FAX: 860-429-6863

FOR OFFICE USE ONLY

File # W 1218
Fee Paid _____
Official Date of Receipt _____

Applicants are referred to the Mansfield Inland Wetlands and Watercourses Regulations for complete requirements, and are obligated to follow them. For assistance, please contact Grant Meitzler, Inland Wetlands Agent at the telephone numbers above.

Please print or type or use similar format for computer, attach additional pages as necessary.

Part A - Applicant

Name Town of Mansfield, Dept of Public Works

Mailing Address 4 S. Eagleville Rd

Storrs Mansfield, CT

Zip 06268

Telephone-Home N/A

Telephone-Business 429-3331

Title and Brief Description of Project

Birch Road bikeway (crossbmitted - W1218 permit expired)

Location of Project Birch Rd (4A to Housatonic Lodge)

Intended Start Date Late Fall 2009

Part B - Property Owner (if applicant is the owner, just write "same")

Name Town R/W - purchased easements

Mailing Address _____

Zip _____

Telephone-Home _____

Telephone-Business _____

Owner's written consent to the filing of this application, if owner is not the applicant:

Signature _____

date _____

Applicant's interest in the land: (if other than owner) _____

Part C - Project Description (attach extra pages, if necessary)

1) Describe in detail the proposed activity here or on an attached page. (See guidelines at end of application - page 6.)

Please include a description of all activity or construction or disturbance:

- a) in the wetland/watercourse
- b) in the area **adjacent** to (within 150 feet from the edge of) the wetland/watercourse, even if wetland/watercourse is **off** your property

Construction of 8" bituminous pety along the east side of Birch Road between Holiday Lodge Road & Route 44

One culvert will be extended near the roundabout

• 11 AC of work in wetlands (two areas)
• 44 AC of work in buffer area (" ")

2) Describe the amount or area of disturbance (in square feet or cubic yards or acres):

- a) in the wetland/watercourse
- b) in the area **adjacent** to (within 150 feet from the edge of) the wetland/watercourse, even if wetland/watercourse is **off** your property

• 11 AC of work in wetlands (two areas)
• 44 AC of work in buffer area (" ")

3) Describe the type of materials you are using for the project: bituminous paving, gravel, cobble, sand, plastic drainage pipe, metal sign posts

- a) include **type** of material used as fill or to be excavated natural materials out, gravel
- b) include **volume** of material to be filled or excavated ±200 cy - wetlands & buffer areas

4) Describe measures to be taken to minimize or avoid any adverse impacts on the wetlands and regulated areas (silt fence, staked hay bales or other Erosion and Sedimentation control measures).

Silt fence, hay bales, seeding

Part D - Site Description

Describe the general character of the land. (Hilly? Flat? Wooded? Well drained? etc.)

mostly flat - some slopes by road's edge

Part E - Alternatives

Have you considered any alternatives to your proposal that would meet your needs and might have less impact on the wetland/watercourse? Please list these alternatives.

Moving the path to the other side of Birch Rd would compromise safety with road crossings (and not connect to the existing paths on Hurley Lodge & Abe AA)

Part F - Map/Site Plan (all applications)

1) Attach to the application a map or site plan showing existing conditions and the proposed project in relation to wetland/ watercourses. Scale of map or site plan should be 1" = 40'; if this is not possible, please indicate the scale that you are using. A sketch map may be sufficient for small, minor projects. (See guidelines at end of application - page 6.)

2) Applicant's map date and date of last revision June 30, 2009

3) Zone Classification RAR/40

4) Is your property in a flood zone? Yes No Don't Know

Part G - Major Applications Requiring Full Review and a Public Hearing

See Section 6 of the Mansfield Regulations for additional requirements.

Part H - Notice to Abutting Property Owners

1) List the names and addresses of abutting property owners

Name Address

see attached listing

2) **Written Notice to Abutters**. You must notify abutting property owners by certified mail, return receipt requested, stating that a wetland application is in progress, and that abutters may contact the Mansfield Inland Wetlands Agent for more information. Include a brief description of your project. Postal receipts of your notice to abutters must accompany your application. (This is not needed for exemptions).

Part I - Additional Notices, if necessary

1) Notice to Windham Water Works is attached. If this application is in the public watershed for the Windham Water Works (WWW), you must notify the WWW of your project within 7 days of sending the application to Mansfield—sending it by certified mail, return receipt requested. Contact the Mansfield Inland Wetlands Agent to find out if you are in this watershed.

- 2) Notice to Adjoining Town. If your property is within 500 feet of an adjoining town, you must also send a copy of the application, on the same day you sent one to Mansfield, to the Inland Wetlands Agency of the adjoining town, by certified mail, return receipt requested.
- 3) The Statewide Reporting Form (attached) shall be part of the application and specified parts must be completed and returned with this application.

Part J - Other Impacts To Adjoining Towns, if applicable

- 1) Will a significant portion of the traffic to the completed project on the site use streets within the adjoining municipality to enter or exit the site? ___ Yes No ___ Don't Know
- 2) Will sewer or water drainage from the project site flow through and impact the sewage or drainage system within the adjoining municipality? ___ Yes No ___ Don't Know
- 3) Will water run-off from the improved site impact streets or other municipal or private property within the adjoining municipality? ___ Yes No ___ Don't Know

Part K - Additional Information from the Applicant

Set forth (or attach) any other information which would assist the Agency in evaluating your application. *(Please provide extra copies of any lengthy documents or reports, and extra copies of maps larger than 8.5" x 11", which are not easily copied.)*

Part L - Filing Fee *N/A*

Submit the appropriate filing fee. (Consult Wetlands Agent for the fee schedule available in the Mansfield Inland Wetlands and Watercourses Regulations.)
 ___ \$385. ___ \$110. ___ \$60. ___ \$25.

Note: The Agency may require you to provide additional information about the regulated area which is the subject of the application, or about wetlands or watercourses affected by the regulated activity. If the Agency, upon review of your application, finds the activity proposed may involve a "significant activity" as defined in the Regulations, additional information and/or a public hearing may be required.

The undersigned applicant hereby consents to necessary and proper inspections of the above mentioned property by members and agents of the Inland Wetlands Agency, at reasonable times, both before and after the permit in question has been granted by the Agency.

Don R. Halden
 Applicant's Signature

6/30/09
 Date



Connecticut
Light & Power

The Northeast Utilities System

NEEWS

Interstate
Reliability Project

June 23, 2009

Mr. Rudy Favretti
Chairman, Inland/Wetlands Agency
Audrey P. Beck Municipal Building
4 South Eagleville Road
Storrs-Mansfield, CT 06268

Dear Mr. Favretti:

On behalf of The Connecticut Light & Power Company (CL&P), I would like to update you on the proposed Interstate Reliability Project (the Project) and upcoming field activities planned along the Project's Proposed Route. The Project will be located on existing transmission line rights-of-way in your town. We have enclosed a package of materials, which provides information about the Project as well as other ongoing CL&P New England East-West Solution transmission line Projects.

CL&P is currently drafting an application to the Connecticut Siting Council (CSC) for a Certificate of Environmental Compatibility and Public Need for the Interstate Reliability Project. Part of the preparation of the CSC application, as well as other environmental permit applications for the Project, involve development of plans that emphasize the minimization or avoidance of adverse environmental impacts, where possible. Delineation of wetlands along the Project's Proposed Route has already been completed. However, in order to complete the CSC application, other permit applications and preliminary engineering, CL&P expects to perform archaeological field surveys, geotechnical and environmental soil sampling, constructability reviews and other field walkdowns.

Although it is CL&P's intent to minimize or avoid wetland impacts, completing these surveys in certain areas will require crossing wetlands or testing locations within wetlands. To facilitate these survey efforts, small-scale vegetation clearing work will be required along some portions of CL&P's existing right-of-way, which is proposed as the location of the Project's 345-kV transmission line. This work will include mowing and the removal of brush and other low growing vegetation to clear the way for surveyors who will conduct archaeological investigations at the proposed locations of line structures and where access roads may be widened.

Interstate Project representatives will notify landowners abutting this right-of-way regarding the upcoming survey work. Advance notification will also be made to town representatives and police departments in the affected towns. In addition, all Project representatives are required to carry proper identification and contact information should they be approached by abutting landowners with questions.

If you or your commissioners have questions regarding the Interstate Reliability Project, please call me at 860-665-4722 or Jeff Buckley, Project Manager, at 203-949-2359. Interested residents can call our NEEWS Project Hotline at 1-866-99-NEEWS (63397) or visit our website at www.NEEWSProjects.com.

Sincerely,

Tony Mele
Project Manager - Interstate Reliability Project

Enclosures

cc: Matthew Hart, Town Manager of Mansfield
Robert Dahn, Chairman - Mansfield Conservation Commission

NEW ENGLAND
EAST — WEST
SOLUTION

Northeast Utilities System
P.O. Box 270
Hartford, CT 06141-0270

PAGE
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PO Box 270
Hartford CT 06141-0270
Address Correction Requested

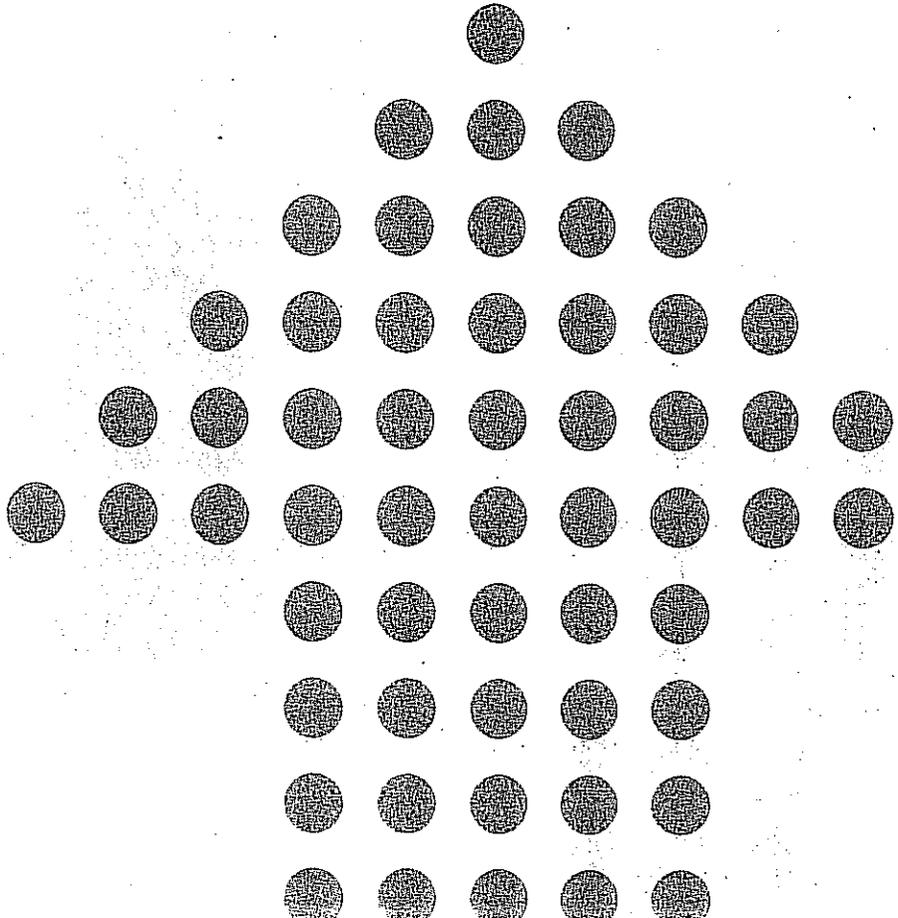
WORKING TO SERVE YOU BETTER

Strengthening our system



Connecticut
Light & Power
The Northeast Utilities System

NEEWS
Interstate
Reliability Project





Everyone Benefits From Transmission Reliability

The Interstate Reliability Project provides direct reliability benefits to Connecticut electricity customers by creating another path for moving power among Connecticut, Rhode Island and Massachusetts from other New England states; and by improving east-west power flows in southern New England. Here are some additional ways that everyone benefits from transmission reliability:

- 1. Reliable power makes New England more attractive to business.
- 2. Robust transmission systems enhance competition in wholesale electricity markets; and the level of competition influences the prices that customers pay for electricity.
- 3. Robust transmission systems enable broader access to clean, renewable energy sources such as wind, water, solar and biomass located in northern New England.

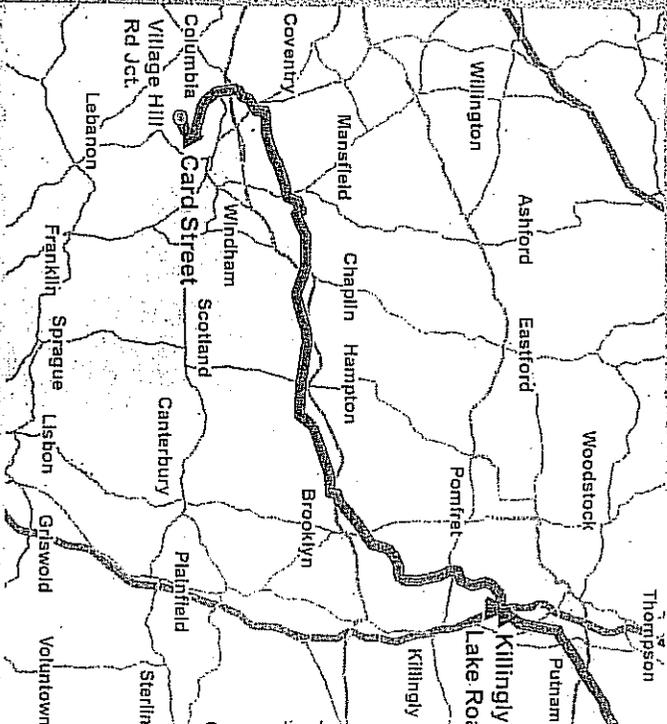
Interstate Reliability Project

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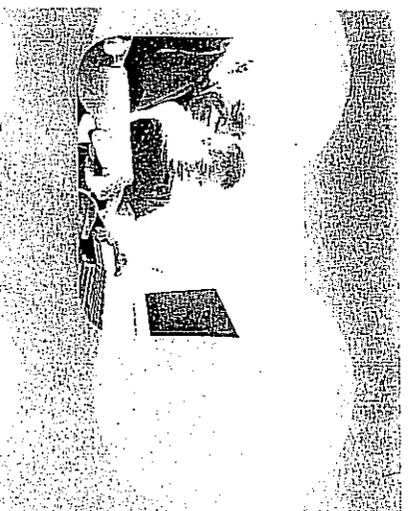
3. Robust transmission systems enable broader access to clean, renewable energy sources such as wind, water, solar and biomass located in northern New England.



Proposed 345-kV Route

Junction

Substation



Planning for Your Future Electric Needs

Throughout Connecticut and the rest of New England, many improvements to maintain reliable electric service are under way. Major portions of New England's transmission system were constructed in the 1960s and early 1970s. We have seen significant growth in peak electric demand in New England, stretching the capabilities of the bulk power grid. We have been actively working toward solutions that enhance the region's infrastructure and provide benefits to customers.

Increased load growth means that some paths on the transmission system need higher capacity, and now limit access to lower-cost generation. Connecticut Light & Power (CL&P) is committed to upgrading those areas to make sure power can get to you when you need it. By expanding the system's capacity now to meet growing demand, the quality and reliability of CL&P's service to the area may be assured for the future.



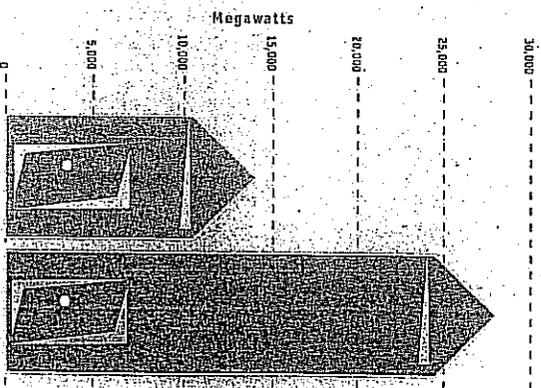
New England's Demand for Power Continues to Climb

Electricity usage continues to rise across New England - particularly on the coldest and hottest days when demand for electricity is the highest - even though utility companies like CL&P, businesses and homeowners have worked hard to conserve electricity.



Some of this increasing demand is weather-related (for example, high air-conditioning use on 100° days), but the bulk of the increase is fueled by our growing economy and today's digital age with advanced appliances and technologies.

New England Peak Electricity Use - an 87% Increase Since 1980



CL&P is working with National Grid, an electric utility serving portions of Massachusetts and Rhode Island, to propose improvements to the transmission system as part of the New England East-West Solution (NEEWS). NEEWS is a group of transmission projects designed to strengthen the reliability of the region's power grid and enhance the interstate transfer of electricity. The Interstate Reliability Project, part of NEEWS, is one piece of the region's

PROVIDING HABITATS FOR THREATENED AND ENDANGERED WILDLIFE

Shrubland provides a vital habitat to a variety of migratory songbirds and is quickly disappearing in New England. Suburban development and the natural progression of shrubland into young forest have resulted in there being less of this habitat today than in the past.

The preferred habitat for scrub-loving songbirds, transmission rights-of-way provide excellent cover and food resources, while also supporting the safe and reliable operation of electric transmission systems.

In addition to insects and a variety of animals, power line rights-of-way are important to the preservation of birds such as:

Blue-winged Warblers

Brown Thrashers

Eastern Meadowlarks

Golden-winged Warblers

Indigo Buntings

Bobolinks

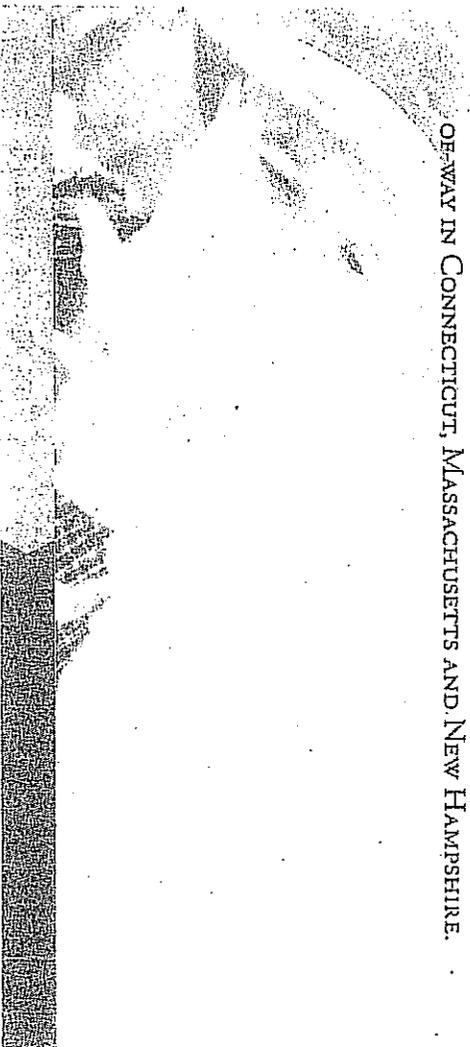
Brown Thrasher

A large, skulking bird of thickets and hedgerows, the Brown Thrasher has one of the largest song repertoires of any North American bird. Boldly patterned, it is conspicuous when singing on its territory, but is hardly discernible during the rest of year.



AT NORTHEAST UTILITIES,

WE TAKE ENVIRONMENTAL STEWARDSHIP VERY SERIOUSLY. IT IS OUR PRIVILEGE TO MANAGE NEARLY 1,900 MILES OF POWER LINE RIGHTS-OF-WAY IN CONNECTICUT, MASSACHUSETTS AND NEW HAMPSHIRE.



Initial Clearing

Minimal clearing in specific areas
Light equipment used

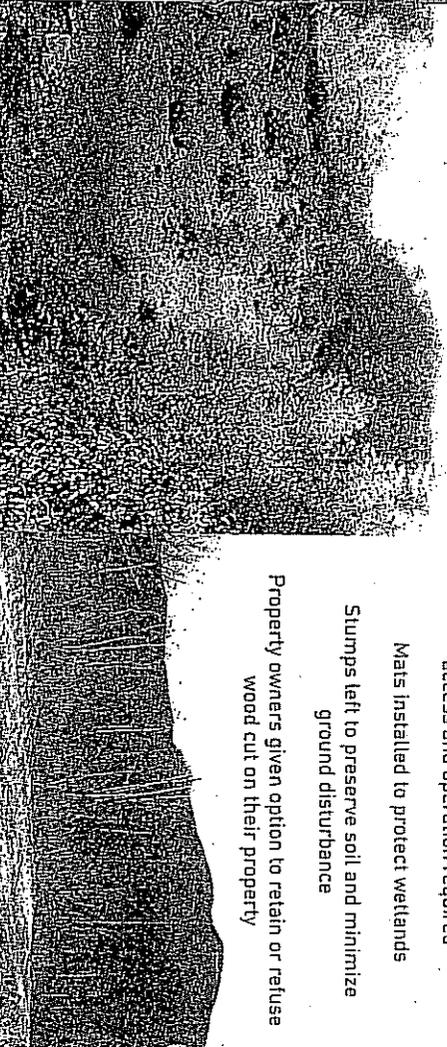
Follows receipt of siting approval and permits
Trees and vegetation removed to ground to provide access for construction equipment

Clearing limited to areas where construction access and operation required

Mats installed to protect wetlands

Stumps left to preserve soil and minimize ground disturbance

Property owners given option to retain or refuse wood cut on their property



THE MANAGEMENT OF VEGETATION

On power line rights-of-way is critical to the safe and reliable operation of our electric system.

It is so important that in 2005 Congress enacted the Energy Policy Act, which led to the mandate of stricter standards for clearances between vegetation and utility transmission lines.

In New England, the natural succession of vegetation is for grassland to grow to shrubland and then to a treed environment. When trees grow in power line rights-of-way, they can cause an outage that can affect wide geographic areas and compromise the safety and reliability of the electric system. Therefore, Northeast Utilities (NEU) must manage vegetation in the power line rights-of-way to maintain what scientists call an early successional environment.

Our goal is stable, low-growing grass, shrub and wildflower communities in rights-of-way that provide the ideal situation for the safe and reliable operation of our electric system, as well as the greatest potential for wildlife habitat.

These shrubland habitats represent vital nesting, brood rearing and escape habitats for a wide range of wildlife. They are increasingly rare in the Northeast due to the conversion of farms to forest as well as development. In fact, power line rights-of-way are almost the sole remaining habitat for shrubland birds, the fastest declining group of birds.

WHEN CONSTRUCTION IS NECESSARY in a power line right-of-way, vegetation management continues to focus on sound environmental practices and the ultimate restoration of the land, while facilitating the use of equipment and the safety of the construction crews.

Clearing a corridor for construction is strictly limited. The only portions of rights-of-way that are cleared are those on which new facilities are being built, as well as access roads and staging areas.

We do not use herbicides during construction. And to preserve the soil and minimize ground disturbance, we do not remove stumps unless they are at a structure location. We install matting to preserve wetlands and improve access roads for safer work conditions. And we try to be good neighbors by keeping out the curious with retaining barriers, gates and signs.

Post-construction

In spite of the care we take, when initial construction clearing takes place, the change can be striking, especially when the areas being cleared were wooded. However, complete clearing in these active construction areas makes it possible to manage regrowth, encouraging species that are desirable to the stable, low-growing grass, shrub and wildflower communities that are our objective.

When construction is over, we remove the equipment, wetland mats and crushed stone used during the process. We reseed open areas and restore previously landscaped areas.

In as little as a year from the end of construction, the rights-of-way begin to spring back to life, while supporting the safe, reliable delivery of electric power.

Construction

Maintenance Clearing

Some vegetation allowed to grow back
Mow and use brush saws to allow for safe
access and operation of equipment

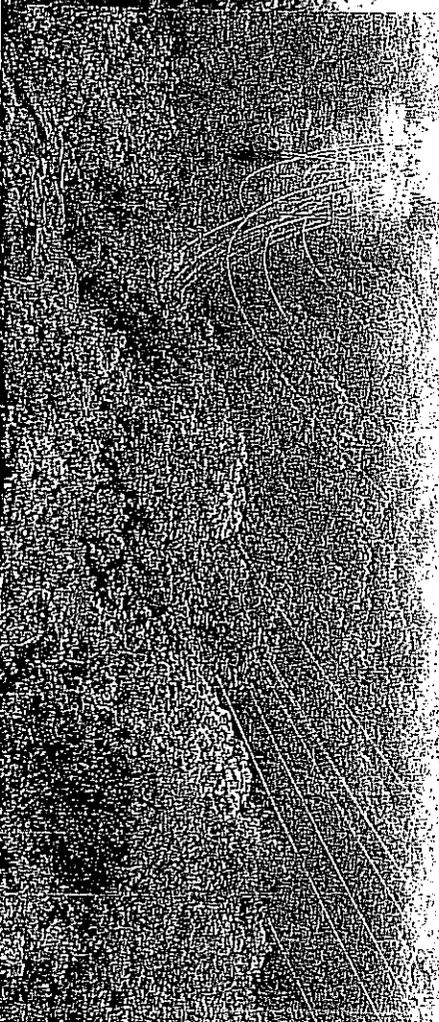
Finishing

Do a final assessment of trees, removing hazards
Control growth of invasive species that could
crowd out desirable plants

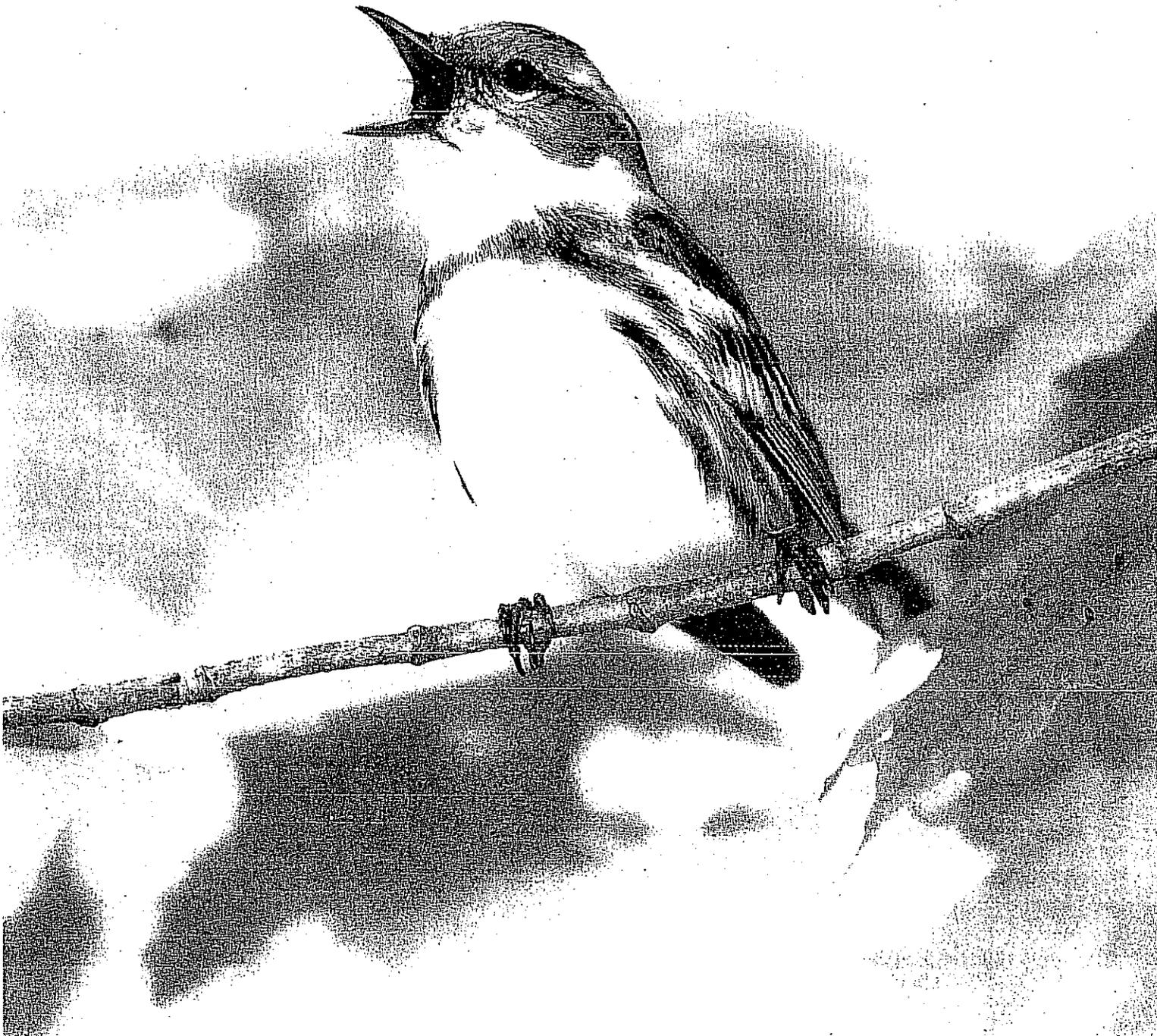
Remove wetland mats and crushed stone used

Reseed access roads and set-up areas
Restore previously landscaped areas

Manage cleared areas, allowing native shrubs and groundcover to grow in



Connecticut Wildlife



New Estimates for Deer Densities in Fairfield County

Written by Howard Kilpatrick, Deer Program

Aerial surveys have been used to estimate deer populations in different regions of the country. Since 1974, aerial deer surveys have been used in Connecticut to track trends in the deer population. As new information becomes available over time, the methods have been and will continue to be modified to improve the usefulness of the data. In the past, aerial deer surveys have been viewed primarily as trend data rather than exact deer counts. Over time, deer counts could trend upward or downward, suggesting that the population is increasing or decreasing. The exact deer count was viewed as only a minimum count because some deer are concealed in vegetation and not counted during aerial surveys.

Correction Factor

Scientific studies published in peer-reviewed journals have evaluated the accuracy of aerial survey counts to develop a correction factor to account for those not counted, due to being concealed by vegetation. Collectively, five of these studies calculated correction factors 11 times. The average correction factor for these studies was 2.1. A correction factor of 2.0 means that you need to double your deer count to correct for deer concealed in vegetation during the aerial deer survey. For example, if 30 deer/square mile were observed, then that number should be multiplied by a correction factor of 2.0 to estimate actual deer densities at 60 deer/square mile ($30 \times 2 = 60$ deer/sq. mile).

Changes in the Survey

In 2009, the DEP Wildlife Division discontinued the statewide aerial deer survey to focus on developing a better estimate of the deer population in deer management zone



P. J. FUSCO

In 2009, the Wildlife Division discontinued the statewide aerial deer survey to focus on developing a better estimate of the deer population in deer management zone 11 in Fairfield County. Zone 11 has the highest deer population in the state.

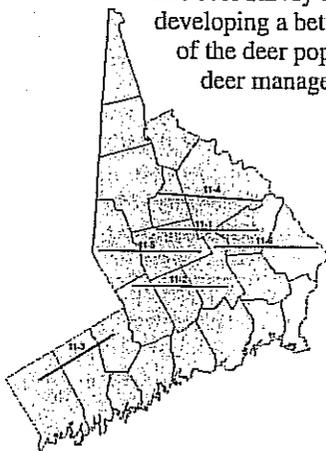
(DMZ) 11 (Fairfield County). Based on reported deer-vehicle accidents, complaints by homeowners and local officials, and past aerial survey data, DMZ 11 had the highest deer population in the state. In the past, three 10-mile long transects were flown in a helicopter to count deer and estimate deer densities per square mile. This year, the number of transects increased from three to six and each transect was flown four times to increase the sample size and estimate variability in deer densities.

Deer Density Estimates

The average deer density observed in DMZ 11 was 30.9 deer/square mile. Average deer densities observed among all

transects were similar. Based on research conducted in Connecticut and elsewhere, it is reasonable to use a correction factor of 2.0 on the observed deer count to estimate actual deer densities. Actual deer densities in DMZ 11 are estimated at 61.8 deer/square mile.

Deer densities that exceed 10-20 deer per square mile can have negative impacts on natural plant communities. High deer densities also are linked to high incidences of deer-vehicle accidents and human cases of Lyme disease. The Wildlife Division will continue to educate the public about the importance of deer management, as well as modify the hunting season structure to increase deer harvest rates in DMZ 11.



Observed and Estimated (Corrected) Deer Density Estimates for Deer Management Zone 11 (Fairfield County), January 2009.

| Avg. Deer per Sq. Mile | Transect | | | | | | Overall | 90% Confidence Range |
|------------------------|----------|------|------|------|------|----|---------|----------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | | |
| Observed | 31.8 | 33.8 | 29.8 | 34.8 | 31.8 | 24 | 30.0 | 26.9-34.8 |
| Corrected | 63.6 | 67.6 | 59.6 | 69.6 | 63.6 | 48 | 61.8 | 53.9-69.7 |

DEP Biologists Make Historic Moose Capture

Written by Andrew LaBonte, Deer Program

Currently, little information exists about moose at the southern extent of their range in the Northeastern states. During the winter of 2007, a cooperative project was launched between the DEP, University of Connecticut, and Northeast Wildlife Damage Management Cooperative to evaluate public opinions about moose and moose management and to capture and collar moose to evaluate movements, habitat use, and survival of Connecticut moose. Moose, whose existence in the state was essentially nil since the 1700s, began showing up in Connecticut around the early 1900s and in more frequent numbers by the late 1990s. Currently, the state's moose population is estimated at 100, based on population modeling and moose sighting reports from the public.

One of the greatest challenges to the success of this project is being able to capture moose. As the largest land mammal in the Northeast, a moose may occupy an area in excess of 10 square miles, which can make locating, capturing, and monitoring, with the use of traditional methods, all the more challenging. To aid in monitoring efforts, the DEP received financial assistance from the Connecticut Endangered Species/Wildlife Income Tax Check-off Fund to purchase several collars equipped with a Global Positioning System (GPS) that uses satellites to collect location data and store the information until it can be remotely downloaded.

Female moose were initially targeted for the study due to the likelihood that they would stay in the same area as compared to males, who may wander extensively during the breeding season. The plan was to use moose sightings from the public to help locate moose for capturing. However, sightings have been limited and reports were not always immediate. A further aid in locating moose has been the use of a helicopter during winter, when there is snow cover, providing the greatest opportunity to spot the large, black-colored animals against the white background. Although a moose, whose size resembles that of a large horse, should easily be seen from the air, canopy cover from the coniferous forests makes spotting the animals extremely dif-



Deer Program biologist Andrew LaBonte with the first moose captured and collared as part of a cooperative research project studying moose movements, habitat use, and survival in Connecticut.

icult if they are not out in the open.

During the first winter of the project (2007), capture conditions were marginal due to poor snow conditions. Only a single moose was observed during three of four flights. All observations were concluded to be of bull moose and no capture attempts were initiated. During winter 2008, a single bull moose was observed during one helicopter flight and a cow and calf were observed on three of four flights. Ground capture attempts were initiated on two occasions with the aid of volunteers, DEP staff, and the helicopter. Unfortunately, the moose quickly left

the area and were unable to be captured. With expectations of capturing a moose dwindling, biologists decided that it would be beneficial to put a collar on any moose, not just females, and it would be best to attempt to tranquilize moose from the helicopter.

From 2008-2009, overall sightings of moose by the public were down 20% from the previous year as were the number of moose/vehicle accidents, providing little expectation that any moose was ever going to wear a radio-collar. However, in January 2009, the first flight to locate a moose proved successful. A large bull

moose was observed and several attempts were made from the helicopter to immobilize the animal. Unfortunately, this capture attempt did not result in a collar going on a moose.

History was finally made on January 30, 2009. While flying near the Hartland/Barkhamsted line, a group of three moose was spotted. A cow with a calf was bedded down along with another antlerless moose on the edge of a steep hillside. As the helicopter flew over, the cow and calf headed off into an area with increased forest canopy while the other moose went a slightly different direction into a less forested area. The decision was made to pursue the single animal. While hovering at treetop level, a single dart was fired from the gun and hit the moose. The moose did not appear to be startled by the impact of the dart and stood stationary for approximately 10 minutes while the drugs took effect. As the helicopter pilot and Wildlife Division biologist Andy Labonte (who shot the tranquilizer dart) celebrated their accomplishment, they watched as the moose put its head down and then began to position itself to lie down. From the helicopter, the ground crew was contacted and informed of the news via cell phone. Fortunately, a suitable site to land the helicopter was nearby and Andy was able to get out and pursue the moose. He hiked approximately a half mile through the woods, following the noise of the helicopter which had returned to circle the moose from the air. As soon as the ground crew arrived, they placed ear tags (#2) and a radio-collar on the moose and collected measurements from the animal.

The moose turned out to be an antlerless bull and, based on its length, it weighed approximately 816 pounds. Once the moose was processed, it was given a special drug to assist in its awakening and left alone to recover. The moose was checked on several hours later and it appeared to be alert and recovered.

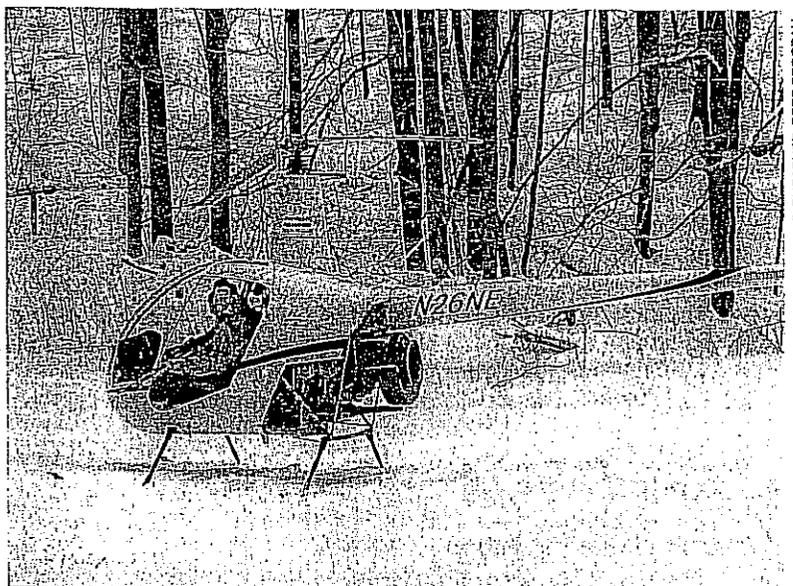
On March 11, 2009, under less than optimal flying conditions, two moose were observed from the helicopter in Hartland. One of the moose appeared to have a healed broken leg, likely from being hit by a motor vehicle, and was, therefore, not targeted for capture. The other moose was targeted and immobilized. The moose turned out to be a female calf and, based on its length, weighed approximately 456 pounds. The calf was fitted with a GPS radio collar and ear tags (#176). After the moose was

administered a drug reversal agent, it surprisingly followed the crew through the woods and had to be chased off.

Both moose are being monitored on a weekly basis and the first few months of data from the bull have been downloaded and will be posted on the DEP website (www.ct.gov/dep) in the near future.

With the completion of this year's helicopter capture efforts, a total of eight

encouraged to call the Wildlife Division's Franklin Wildlife office at 860-642-7239 or the Sessions Woods office at 860-675-



Deer Program biologist Andrew LaBonte and Northeast Helicopter pilot Andrew Putnam preparing for take-off and aerial pursuit of moose in Hartland, Connecticut.



First female moose that was captured, collared, and ear-tagged in Hartland, Connecticut

moose were observed (3 bulls, 2 cows, and 3 calves) during six flights. Moose will be captured opportunistically until next winter, when more active capture efforts will begin again.

Anyone who observes a moose is

8130 as soon as possible. Moose sightings may also be reported on the DEP website at www.depdata.ct.gov/wildlife/sighting/mooserpt.htm.

Monitoring Moose Movements Through Public Sightings

Written by Andrew LaBonte, Deer Program

In April 2009, the DEP established a link on the DEP website to allow residents to report moose sightings. Within the first month of operation, the DEP received reports of moose in Barkhamsted, Burlington, Hartland, New Hartford, and Stafford, none of which were out of the ordinary. However, several web reports of a moose in unexpected towns like Avon and Simsbury were made, with additional reports coming in via telephone and email. On May 16, 2009, a female moose was photographed using a crosswalk in Farmington. With another destination in mind and wise judgment in crossing the road, the moose continued on its journey south. During the week of May 18, several reports of a moose in New Britain came in from the public, indicating that the moose that had been reported in the towns mentioned above had made a wrong turn.

During spring (May-June), when cow moose (females) are preparing to give birth, offspring from the previous years are often displaced and head off to establish their own area of residency. This is this time that the DEP periodically receives reports of moose in areas not conducive to their wandering. Dispersing moose often head south through the state, crossing many busy highways. Dispersal of these young moose is guaranteed; however, the outcome of their survival is not. During the past nine years, dispersing moose have ended up in Hartford, Old Lyme, New Canaan, Fairfield, and Waterbury. Fortunately, for the safety of the moose and the citizens of the state, the moose in Hartford and Old Lyme were captured and successfully relocated. The outcome for the moose that ended up in New Canaan was less than desirable, as it was killed by an unfortunate motorist on the Merritt Parkway, who also suffered substantial injuries. The two additional moose that ended up in Fairfield and Waterbury were euthanized due to public safety concerns as their proximity to busy highways during peak traffic hours likely would have resulted in a similar outcome as the New Canaan moose.

When at all possible, the DEP attempts to capture and relocate dispersing moose. However, when moose end up in highly populated areas, such as New Britain, it requires a lot of effort and coordination to ensure the safety of the moose and the public.

Turtles and Roads Are a Bad Combination

Recent research suggests that some turtle populations are declining, in part, because of car and turtle collisions on the numerous roads that dissect the landscape. In Connecticut, hundreds of turtles, particularly eastern box turtles, are killed on roadways every spring and summer. Box turtles have become so rare in the state that they are a species of special concern on Connecticut's Threatened and Endangered Species List.

You can help by watching for turtles that are crossing roads. If possible (without jeopardizing your safety), help turtles across the road in the direction they were headed before they are struck by cars.

In the case of snapping turtles, it is recommended that you do not handle them at all. Snapping turtles can be heavy and



T. DELANEY FOR WILDLIFE DIVISION

This photo of a moose using a crosswalk to cross a road in Farmington was captured by Master Wildlife Conservationist and DEP employee Tina Delaney this past May. The moose eventually made its way to New Britain where it was immobilized by DEP personnel.

On May 21, with cooperation between DEP Wildlife Division biologists, DEP ENCON police, and the New Britain police, the moose in New Britain was successfully immobilized under less than ideal temperatures. A team of 10-12 DEP staff transported the 550-pound moose from the woods to the back of a pickup truck with the aid of a large cargo net. With help and the generosity of local residents, the moose was iced and cooled with water to minimize heat stress. The moose was then transported and released at a location in northern Connecticut with good moose habitat.

As Connecticut's moose population continues to increase, it is expected that more moose will find their way into urban areas and will require intervention. Anyone who observes a moose in urban areas is encouraged to contact the Franklin Wildlife office at 860-642-7239, Sessions Woods office at 860-675-8130, or the DEP emergency dispatch line at 860-434-3333. All other sightings can be reported via the DEP website at www.depdata.ct.gov/wildlife/sighting/mooserpt.htm.

slimy, making it difficult to hold on to them. They should never be picked up their tails as this can damage the vertebral column and tail, not to mention the person who is in danger of being bitten by an angry turtle. However, do not be alarmed if a snapping turtle lays its eggs in your yard. Once the eggs are laid, the female turtle will return to the waterbody she came from. When the eggs hatch sometime in September, the hatchlings will only be about the size of a quarter.

To learn more about some of the turtles found in Connecticut, visit the wildlife section of the DEP website at www.ct.gov/dep/wildlife.

White-Nose Syndrome Devastates CT's Hibernating Bats

Written by Christina Kocer, Wildlife Diversity Program

This past winter, visits to Connecticut's hibernacula, caves and mines where bats hibernate, revealed devastation. The syndrome known as White-Nose Syndrome (WNS) that had been documented in its early stages at two locations in Connecticut during 2008 intensified at those sites and was documented at one additional site in 2009. The dismal scene observed during routine surveys this winter was one of bats clinging to structures, exposed to the elements outside the hibernacula. Inside the hibernacula, bat carcasses littered the floors while fungus-engulfed bats clung to the walls.

Overall, 80%-95% of the bats that had been hibernating at two of the three affected sites in years past were gone in the period of one year. This same scene repeated itself throughout the Northeast, affecting hibernating bats in New York, Massachusetts, Vermont, New Hampshire, New Jersey, Pennsylvania, and south into Virginia and West Virginia. Many of the bats seen in Connecticut during summer spend their winters hibernating in these neighboring states. The ramifications of this dramatic loss in numbers will be evident this summer as far fewer bats will be out consuming night-flying insects.

Discovered in New York in 2007, WNS was named for the characteristic white fungus that can appear on the noses, ears, and wing membranes of hibernating bats. It is unknown if the fungus is causing the death of the bats or is simply a symptom of an unknown, underlying disease or other health issue. Bats affected by WNS have been documented coming out of hibernation early, flying outside during the coldest months of winter, often during the day, and ultimately starving to death. There is no indication that humans are susceptible to the fungus.

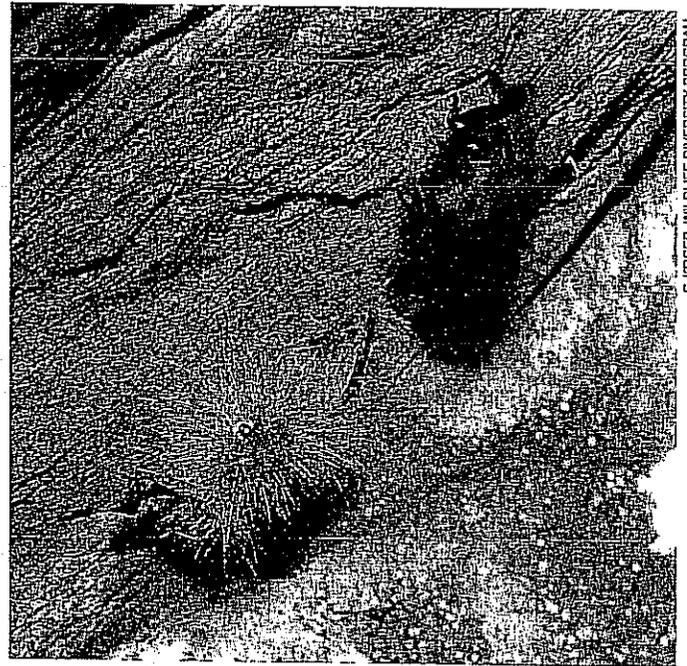
Little brown bats have been the most severely impacted species throughout the Northeast region but all cave-dwelling species have also been impacted, including species common in Connecticut, such as the northern long-eared, eastern pipistrelle, and to a much lesser degree, big brown bats. The federally endangered Indiana bat has suffered dramatic declines already and, as WNS spreads, the survival of other rare species, including Virginia big-eared bats and gray bats, is also

threatened. Because bats are long-lived species with low reproductive rates, there is no doubt that WNS will have major long-term impacts on the biodiversity and ecosystems of our state, as well as throughout the Northeast region.

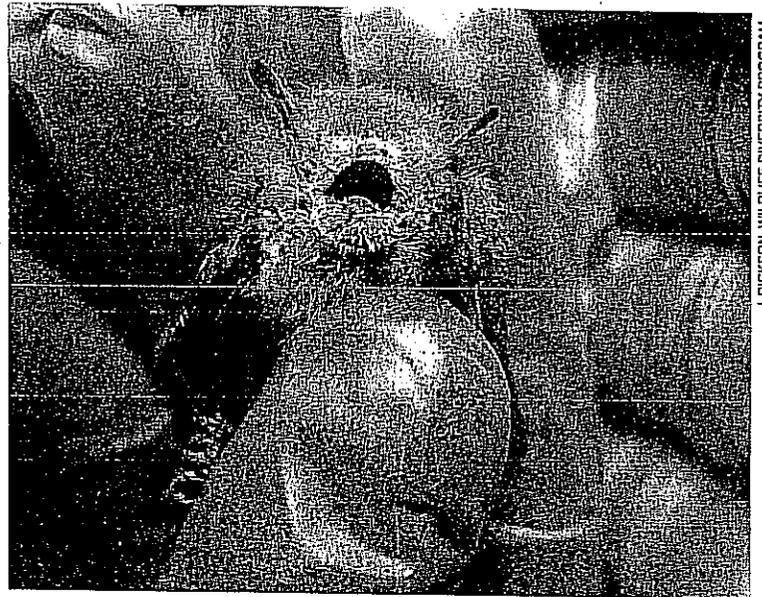
Connecticut biologists are working closely with other affected states, federal agencies, such as the U.S. Fish and Wildlife Service (USFWS) and U.S. Geological Survey, as well as several research institutions to learn more about WNS and determine its cause. This summer, considerable work will be conducted in the affected Northeast region, as well as throughout the unaffected south and Midwest regions, to better understand how WNS affects summer bat colonies. To aid in this effort, the DEP Wildlife Division is collecting information about unusual bat behavior. If you currently have bats living near your home, have had bats in

the past, or know someone who has bats living nearby, please contact Wildlife Division technician Christina Kocer at (860) 675-8130 or at christina.kocer@ct.gov.

The U.S. Congress plans to hold special subcommittee hearings in June about WNS. States and many conservation organizations are requesting federal funds



A mane of fungus engulfs one bat while another bat roosting nearby appears to be free of the white fungus that is a common characteristic of White-Nose Syndrome. Although the fungus is not visible on the one bat, it is impossible to know if this bat is healthy.



An eastern pipistrelle is clearly overwhelmed with the fungus associated with White-Nose Syndrome. All species of cave dwelling bats in the Northeast, such as the eastern pipistrelle, have been affected by this still poorly understood affliction.

to help solve the WNS mystery before it is too late. To learn more about WNS and its impacts, visit the USFWS website at www.fws.gov/northeast/white_nose.html or the National Wildlife Health Center website at www.nwhc.usgs.gov/disease_information/white-nose_syndrome.

Federal Aid Project Spotlight: *Waterfowl Population Studies*

The management of waterfowl populations is complex due to the variety of species, and the interstate and international cooperation necessary to manage these migratory birds and their diverse habitats. Waterfowl abundance is dictated by a number of factors, such as breeding habitat condition, winter severity, and available food resources. The dynamic nature of migratory waterfowl populations requires annual monitoring of breeding and wintering populations. Yearly monitoring efforts are useful in assessing various population management practices, determining habitat use, and establishing harvest regulations.

Due to these research and monitoring needs, the DEP Wildlife Division has been conducting annual surveys to determine trends in the distribution and abundance of wintering and breeding waterfowl in the state. As part of this ongoing study, Division biologists conduct the Midwinter Waterfowl Survey, Breeding Waterfowl Survey, and Nesting Mute Swan Survey. Data on wood duck nesting success are obtained from checking nest boxes on state land every winter. This waterfowl monitoring project is possible due to financial support from the Federal Aid in Wildlife Restoration Program. Established in 1937 with the support of sportsmen, the federal aid program provides funding to state wildlife agencies for wildlife management and research, habitat acquisition, wildlife management area development, and hunter education. Proceeds are derived from an excise tax on the sale of sporting firearms, ammunition, and archery equipment.

Midwinter Waterfowl Survey

Winter migratory waterfowl populations are surveyed by conducting the Midwinter Waterfowl Survey. This survey is coordinated by the U.S. Fish and Wildlife Service (USFWS) throughout the Atlantic Flyway. Survey results are used as an index to wintering populations and provide relative information on distribution and habitat use. The survey area covers the entire Connecticut coastline, three major river systems (Housatonic, Connecticut, and Thames), and a sample of inland reservoirs within a 10-mile radius of the coastline. In cold winters, the Connecticut portion of the survey adequately monitors black ducks,



District Maintainer Koert Riley (left) and seasonal research assistant Eric Pelletier check a wood duck nest box at Shade Swamp Wildlife Management Area in Farmington. Nest box checks help in determining the yearly nesting success of wood ducks.

diving ducks, and Atlantic brant, but is less valuable for mallards and Canada geese because a disproportionate percent of these species spend the winter in non-surveyed inland areas. The data from this survey are used in the development of management plans and harvest recommendations. The continued utility of the Midwinter Waterfowl Survey has been questioned by some biologists. However, until the USFWS decides to suspend the survey, Connecticut and the other flyway states will continue to conduct it.

Breeding Waterfowl Survey

This statewide survey is another cooperative effort with the USFWS. It was designed to index mallard breeding pair numbers, but has evolved to provide the population data that drive the Eastern Mallard Adaptive Harvest Management models. These models are used to prescribe duck hunting seasons (season length and bag limits) in the Atlantic Flyway. This survey is less precise at the state level but it is the best tool for monitoring trends in distribution and abundance and for managing waterfowl populations in the state (see page 12 to learn more about the 2009 survey).

Nesting Mute Swan Survey

Mute swans continue to expand throughout inland portions of Connecti-

cut. To better document this expansion, a nesting survey is conducted in May. The state is divided into 146 plots which are surveyed from the air (fixed wing airplane or helicopter). Due to time and budget constraints, a three-year survey rotation for inland plots was developed. Coastal plots are surveyed every year. Since its inception in 2003, this survey has provided information on the distribution of a non-native species that has an impact on habitat used by native wildlife.

Wood Duck Box Checks

Nest boxes have contributed to the recovery of wood ducks throughout their range. Box use and productivity can be used as an index to local breeding populations. In 2002-2003, an intensive assessment of existing wood duck boxes on state lands was conducted. Based on the results, a survey protocol was developed that targets an annual sample size that consists of all state land boxes in the western portion of the state (115) and a sample of 280 boxes in the eastern portion. Boxes are checked every year in winter, when there are safe ice conditions. A standard data form is completed at each site after all boxes are thoroughly checked, cleaned, and new nesting material added. Wood duck productivity is determined by documenting the number of egg membranes found in each box.

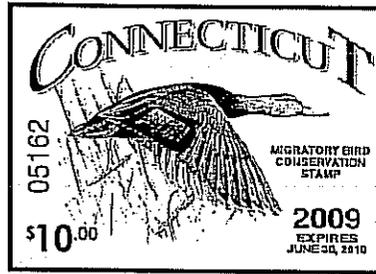
Buy a Connecticut Duck Stamp and Help Conserve Wetlands and Wildlife!

Sportsmen who hunt waterfowl are required to purchase a \$10 Connecticut Duck Stamp every year. However, you don't have to be a waterfowl hunter to buy a Duck Stamp. Anyone interested in the conservation of wetland wildlife, such as waterfowl and waterbirds, and their habitats can help by purchasing one.

By state statute, proceeds from the sale of Connecticut Duck Stamps can only be used for the development, management, preservation, conservation, acquisition, purchase and maintenance of waterfowl habitat and wetlands; the purchase or acquisition of recreational rights or interests relating to migratory birds; and the design, production, promotion, and procurement and sale of the prints and related artwork.

Local Artist Designs 2009 Connecticut Duck Stamp

The 2009 Connecticut Duck Stamp features an American black duck illustrated by Clint Herdman, a wildlife artist from Beacon Falls. Clint possesses a lifelong interest in art and wildlife, especially waterfowl. His inspiration comes from the years he has spent in the field enjoying the outdoors and nature photography. He prefers the medium of graphite and loves the challenge of bringing a subject to life with the contrast of black and white. Clint also is an avid waterfowl hunter and fisherman.



To date, the sale of stamps (and collector art prints from 1993 through 2003) has generated over \$1.2 million for wetland conservation in the state. As a result, the Wildlife Division has been able to use these funds to enhance or restore over

1,700 acres of wetlands, mostly on state-owned wildlife management areas. Projects have been conducted at 45 sites statewide. The Duck Stamp fund is vital because it often serves as a match for federal funds that the DEP receives through various grant programs, such as the North American Wetland Conservation Act.

Waterfowl hunters who pay for their stamp at town halls or online (www.ct.gov/dep/sportsmenlicensing) can request a copy of the actual stamp by contacting DEP License and Revenue, 79 Elm Street, Hartford, CT 06106. Individuals or stamp collectors who wish to purchase a stamp to support wetland habitat and waterfowl conservation should send a check for the number of stamps desired (\$10 each) with your mailing information to DEP License and Revenue and the stamps will be mailed to you.

2009 Federal Junior Duck Stamp Contest CT Best in Show Awarded to High School Student from Orange

Young Connecticut artists recently competed in the Junior Duck Stamp competition sponsored by the Connecticut Waterfowlers Association (CWA). Members of CWA judged the 110 entries received this year and chose, as Best of Show, an acrylic painting of a mallard by Connie Chen, from Orange. Connie, a student at the Bob Boroski School of Art, competed in Group IV, which includes high school students in grades 10-12. Connie's painting will go on to compete in the national Junior Duck Stamp Contest. Connie's painting of a pair of ruddy ducks was chosen as the Best of Show in the 2008 competition.

The Federal Junior Duck Stamp Conservation and Design Program (JDS) was first recognized by Congress in 1994 when the Junior Duck Stamp Conservation and Design Program Act was enacted. The program is a dynamic arts curriculum that teaches wetlands and waterfowl conservation to students in kindergarten through high school. The program incorporates scientific and



wildlife management principles into a visual arts curriculum with participants completing a JDS design as their visual "term papers." Preparation for the JDS contest and involvement in the program requires students to think about and understand the fundamental principles of anatomy and environmental science. The program also provides an opportunity for students to learn science and express their knowledge of the beauty, diversity, and interdependence of wildlife, artistically.

The JDS contest begins each spring

when students submit their artwork to a state contest. Students are judged in four groups according to grade level: Group I: K-3, Group II: 4-6, Group III: 7-9, and Group IV 10-12. Three first, second, and third place entries are selected for each group. A "Best of Show" is selected by the judges from the 12 first-place winners regardless of their grade group. Each Best of Show is then entered into the national Junior Duck Stamp Contest.

The first place design from the national contest is used to create a Junior Duck Stamp for the following year. Junior Duck Stamps are sold by the U.S. Postal Service for \$5 each. Proceeds support conservation education and provide awards and scholarships for the students, teachers, and schools that participate in the program.

More information about the Junior Duck Stamp Program is on the U.S. Fish and Wildlife Service website at www.fws.gov. To learn more about the Connecticut Waterfowlers Association, visit the organization's website at www.ctwaterfowlers.org.

Forest Conservation and the Cerulean Warbler

Article and photography by Paul Fusco, Wildlife Outreach Program

In the world of neotropical migrants, there is a little bird facing a huge problem. The tiny and most beautiful cerulean warbler is fast losing its habitat and the ability to maintain its population. Since the 1960s, surveys have shown that the bird is losing ground at a rate of over four percent per year, which has resulted in a population reduction pushing 80% during that time period. It is declining faster than any other warbler species, and if this rate of steep decline continues, the species' actual existence is in serious trouble.

The cerulean warbler is a member of the *Dendroica* (tree dweller) genus of the wood warbler family. Wood warblers are small birds with thin pointed bills. They are highly active and most are brightly colored, especially the males. At a little under five inches in length, ceruleans are one of the smaller species in the warbler family. Their tails are shorter than other *Dendroica* warblers and they have long primary wing feathers, which are visible when the bird is at rest. Long primaries are indicative of a bird that migrates a long distance.

Forest Fragmentation and Degradation

Neotropical migrants are birds that live in the tropical areas of the New World (Central and South America, and the Caribbean), but migrate to North America for the breeding season. These birds make incredible journeys each year to take advantage of the massive food supply (mainly insects) that become available during the time they raise their young. Many species of neotropical migrants are dependent upon large forested habitats to reproduce successfully. The loss and/or degradation of forest habitats can adversely affect the populations of these birds, many of which have been declining for decades.

Habitat loss and forest fragmentation are the primary causes for the decline of warblers, tanagers, thrushes, and other neotropical migrants. When large forest blocks are chopped into smaller pieces by roads and development, populations of these birds experience tremendous stress. Forest fragmentation opens a path into the forest for nest predators, cowbirds, and human disturbance. On a population level, the birds cannot withstand being squeezed into smaller and less desirable space without being affected in a negative way.

Not only are neotropical migrants losing habitat on their North American breeding grounds, but they are also losing habitat in their Latin American wintering areas. Habitat conservation and ecologically sound forest management practices are critical for the survival of neotropical migrants like the cerulean warbler.



Smaller than a sparrow, male cerulean warblers have dazzling blue and white plumage. They are more frequently heard than seen, as they spend most of their time high in the forest canopy.

The male cerulean warbler is deep azure blue above and white below. It has a narrow blue/black band across its upper breast and prominent streaks down its sides and flanks. The female is blue/green above and whitish below, with a whitish eyebrow stripe and diffuse streaking on the sides and flanks. Both sexes show bold white wing bars and white tail spots.

Range and Habitat

The current breeding range of the cerulean warbler is within the eastern deciduous forests of North America. The range extends from Arkansas and Tennessee, north to eastern Minnesota, southern Ontario and New York, and as far east as Connecticut and Delaware. The core breeding range is primarily west of the Appalachians, in the mature forests of the upper Ohio River valley, Cumberland Plateau, and the Allegheny region. Historically, cerulean warblers were most common in the bottomland flood plain forests of the Mississippi Valley region. Those forests are no longer there. Suitable forest habitats in the Mississippi, Missouri, and parts of the Ohio River valleys have also been lost due to intensive cutting and conversion to farmland.

Over the past century, the cerulean's breeding range has slowly expanded to the north and east. Colonization into the Northeast has not offset the large population declines in the midwestern regions. In the Northeast, breeding was first established in southwestern Quebec in the 1950s, in Connecticut in 1972, Rhode Island in 1986, and in Massachusetts in 1989.

In order to get to its breeding grounds, the warbler must migrate from its wintering range, which is in northern South America. In its wintering range, the cerulean warbler inhab-

its mid-elevation montane valleys in the eastern slopes of the Andes Mountains in Venezuela, Colombia, Ecuador, and Peru. This little bird has a migration that is among the longest of any warbler. Its spring migration is a marathon that takes the bird across the Gulf of Mexico on a perilous journey of over 2,500 miles before it arrives at the eastern forests of North America.

The cerulean warbler requires large tracts of old growth deciduous forest with an open understory. The forest canopy must be mainly closed, but still have sporadic openings. Forests that have well defined layers and large, taller trees extending above the surrounding canopy are favored. Forested areas with rivers, streams, and/or swamps nearby are best. Even though the species is fairly widespread in its breeding range, it is uncommon and its distribution is local and patchy throughout the range.



Cerulean warblers are fairly common to uncommon and local throughout their range.

Behavior

Ceruleans are difficult to see as they are usually found high in the canopy of tall, broad-leaved deciduous trees. Here, they can be spotted as they hop from branch to branch or take short flights among the treetops, flashing their white tail patches, as they forage for their primary food, insects and spiders. Caterpillars are often the food most sought after.

Cerulean warblers are typically associated with several tree species in the forest, including sycamore, silver maple, red maple, ash, and cottonwood. Where they are found in dryer upland areas, they are associated with oaks and hickories. Keeping with its penthouse routine, nests are typically built on a fork of a horizontal branch at a height of between 30 and 90 feet, making nest behavior observations somewhat difficult.

The best way for a birder or a biologist to locate this species is to learn to recognize its song in the forest. It sings a rapid buzzy song of *zray, zray, zray, zray, zreeee*, with a distinctive higher pitch at the end. The song is somewhat similar to that of the black-throated blue warbler (which is slower) and the northern parula (which lacks the distinctive higher pitch at the end).

Conservation

The cerulean warbler has a lot going against it. Its habitat is being lost and degraded on its breeding grounds due to forest cutting and land management activities. At its wintering grounds, it is losing habitat to forest clearing for conversion to agriculture for growing such products as coffee and cacao. In addition, the cerulean warbler requires large, unbroken forest for breeding, and it endures a long migratory journey every spring and fall. It is not surprising that the bird is rapidly declining.

In Connecticut, the cerulean warbler is found in a few widely scattered locations during the breeding season. Parts of the upper Housatonic River Valley and the lower Connecticut River Valley usually have small colonies of breeding pairs every year. The birds may also be found at a few other more isolated locations in the southwestern and northeastern parts of the state.

Interestingly, as the cerulean warbler has been declining due to habitat loss in its traditional breeding range, it has also been slowly expanding its range to the Northeast. As the species increases its presence in the Northeast and, as our forests continue to mature, Connecticut may be becoming more of an important part of the birds' range for the future.

What About Shade Grown Coffee?

It so happens that the wintering habitat of the cerulean warbler is a great place for farmers to grow coffee. The humid, mid-elevation broad-leaved forests of the eastern slopes of the Andes have just the right conditions for coffee and other crops, including cacao, to grow. Large scale coffee plantations can have a landscape altering affect on the native ecosystem, with a potentially devastating impact on forest habitat.

Coffee is originally from Africa and has been grown in Latin America for the past 200 or so years. Traditionally, coffee has been grown as a shade plant, below the overstory of native trees, because it was never tolerant of full sun. But in recent years, new strains of coffee have been developed that are sun tolerant, and farmers are able to increase their yield by planting sun grown coffee. The problem for birds is that sun grown coffee requires the clearing of the forest canopy and mid-layers, which provide habitat for millions of birds. Once cleared, the plantations become biologically void. Sun grown coffee also requires the heavy use of chemical fertilizers, fungicides, and pesticides.

Shade grown coffee, on the other hand, retains the forest canopy and structure, providing habitat for millions of birds, including the cerulean warbler. Shade coffee plantations have a great diversity of native trees and other plants growing among the coffee shrubs, which helps to provide habitat for wildlife, as well as to retain regional biodiversity.

Consumers have the power to help protect migratory birds that winter in Latin American forests by buying shade grown coffee instead of ecologically destructive sun grown coffee. The Smithsonian Migratory Bird Center has developed a certification program for designating "Bird Friendly" coffee. By supporting bird friendly coffee plantations, consumers can make a difference in bird conservation every day. They would also be supporting the traditional way of life for many farmers in Latin America.

Annual Breeding Waterfowl Survey Completed

Written by Kelly Kubik, Migratory Gamebird Program

Staff from the DEP Wildlife Division conduct the annual spring breeding waterfowl survey in April. Each state in the Atlantic Flyway from Virginia north to New Hampshire participates. This survey is part of the Northeast Breeding Waterfowl Survey coordinated through the Mallard Committee of the Atlantic Flyway Council's Migratory Gamebird Technical Section. It began experimentally in 1989 and became operational in 1991. Specifically designed to index mallard breeding pair numbers, the survey has evolved to provide the population data that drive the Eastern Mallard Adaptive Harvest Management (AHM) models. These models are used to prescribe duck hunting seasons (season length and bag limits) in the Atlantic Flyway.

In Connecticut, this ground survey targets 56 randomly selected, one-square kilometer plots of varying habitat types. Because these plots are randomly selected, they fall on both public and private property. The sample plots are distributed within three ecological strata in the state: Litchfield highlands, central lowlands, and coastal salt marsh. The salt marsh stratum was added in 1993 because it was not well represented by the statewide random plot selection. Therefore, six random plots were established within this stratum. This particular habitat type is very important to black ducks and these plots provide an index to black duck coastal breeding numbers.

The water tables of many of the wetlands within the survey plots were replenished by early spring rains. Habitat changes associated with beaver activity continue to be noted on some plots. Beaver dams were breached in some areas, creating low water conditions for nesting waterfowl. Beavers were also noted to have significantly raised the water level of a historically productive pond, resulting in reduced waterfowl counts for that plot this year. Even though these types of habitat changes are inevitable over the years, they are one of the major factors that affect breeding waterfowl numbers.

A drake index (drakes/pairs+drakes) was calculated for each species to determine if survey timing was appropriate. A high drake index indicates good survey timing. It shows that the nesting of local ducks has begun and most migrants have moved north to their breeding grounds. Conversely, a low index shows the survey was conducted too early and paired migrants may still be present. An index between 0.50 and 0.75 is indicative of a well-timed survey.

Mallards continue to dominate the survey in Connecticut.



A total of 9,620 pairs of Canada geese were estimated during the 2009 breeding waterfowl survey. These results demonstrate a two percent decrease from the estimate in 2008 and a nine percent decrease from the five-year average.

The mallard estimate for 2009 was 18,112 pairs. This is a one percent increase from 2008 and a five percent increase from the five-year average. The mallard drake index was 0.62, indicating proper survey timing for this species. Mallards are very adaptable birds that will regularly nest in a variety of different landscapes and are very tolerable of human disturbance.

The Canada goose estimate for this year was 9,620 pairs, representing a two percent decrease from the previous year and a nine percent decrease from the five-year average. Connecticut's liberal resident Canada goose hunting seasons are having an impact on goose populations, particularly in those areas where hunters have access to the birds.

The wood duck estimate for 2009 was 5,946 pairs. This is a 44% decrease from 2008 and a 28% decrease from the five-year average. The previous two years had the highest recorded breeding pair estimates for wood ducks in Connecticut since the inception of the survey. If these two years are excluded from the data set, then this year's count is a 14% decrease from 2006 and less than a one percent decrease from the 2002-2006 average. The wood duck drake index was 0.38.

Similar to last year, black ducks were not observed in any inland plots this year. The breeding black duck estimate was 241 pairs. This represents a five percent increase from 2008 and a 38% decrease from the five-year average. These fluctuations in black duck breeding pair estimates are likely attributed to ever changing habitat conditions and particularly to the secretive nature of this species. The black duck drake index for this year was 0.47.

The breeding waterfowl survey has helped in the establishment of three important databases that were previously unavailable to waterfowl managers: regional waterfowl population estimates; regional mallard breeding pair estimates; and a trend index to determine long-term population changes.

Connecticut Breeding Waterfowl Pair Results for Major Species

| Species | 2009 | 2008 | Five-Year Average |
|--------------|--------|--------|-------------------|
| Black Duck | 241 | 228 | 369 |
| Canada Goose | 9,620 | 9,851 | 10,598 |
| Mallard | 18,112 | 17,936 | 17,263 |
| Wood Duck | 5,946 | 10,550 | 8,387 |

Children's Wildlife Booklet Available

Written by Laura Rogers-Castro, Outreach Program

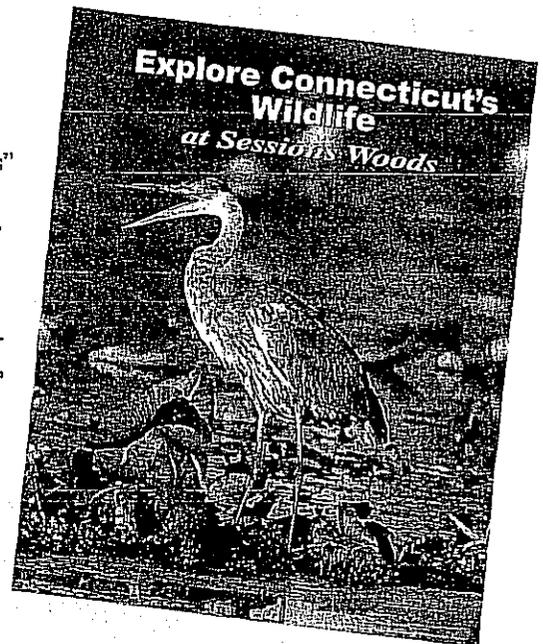
Are you an educator or know someone who is? The Wildlife Division has compiled a selection of "Just for Kids" pages from *Connecticut Wildlife* magazine and produced a booklet called *Exploring Connecticut's Wildlife at Sessions Woods*. Printing of the booklet was made possible by the Friends of Sessions Woods (FOSW) through a grant from the late Paul Newman and the Newman's Own Foundation.

Newman's Own, Inc., produces items such as salad dressings, popcorn, salsa, and pasta sauces. The Foundation donates all profits and royalties from the sale of these products, after taxes, for educational and charitable purposes. It has given over \$250 million to thousands of charities worldwide since 1982. Grant applications are by invitation only and the Friends of Sessions Woods was invited to submit a grant proposal from a board member. This very useful gift will enhance the educational experience of children visiting the Wildlife Division's Sessions Woods Wildlife Management Area in Burlington.

Exploring Connecticut's Wildlife at

Sessions Woods features "Just for Kids" pages on topics such as forests, fields, beaver marshes, vernal pools, wildlife, and bird watching. There are coloring pages on the wood duck, black bear, blue-winged warbler, wild turkey, and ruby-throated hummingbird. A few activity pages are included. For example, "Habitat Hunt," which is similar to a scavenger hunt, can be completed at Sessions Woods or any natural area. A special feature of the booklet is a four-page color insert with beautiful wildlife photographs taken by Wildlife Division photographer, Paul Fusco. The cost of printing the insert was paid for by the FOSW.

The best news about the booklet is that it is free to educators and children while supplies last! Of course, the best use of the booklet is before or after a group takes a field trip to Sessions Woods. Any school or scout group can visit Sessions Woods, but small groups (less than 25) have an option for a free, guided program as well. The Newman's Own Foundation also provided some funding for bus transportation



to Sessions Woods, particularly for school groups visiting from some of Connecticut's larger cities. For additional programming information or to obtain copies of *Exploring Connecticut's Wildlife at Sessions Woods*, please contact Laura Rogers-Castro at 860-675-8130 or laura.rogers-castro@ct.gov. The booklet is most suitable for children in grades 3-8, but select pages can be used by any age.

Den Visits Reveal Bear Productivity

Written by Paul Rego, Furbearer Program

Again this past winter, Wildlife Division biologists located and examined dened female black bears to assess reproduction and cub survival. Sixteen sows wore radio collars that allowed biologists to trek through the winter forests and pinpoint the locations the females chose to ride out the winter months. The dens also serve as maternity "rooms" for the females and "nurseries" for the cubs that are born in January in the middle of the denning period. The following winter, the females once again share their dens with their offspring, now yearlings, that were born the previous winter.

A denning bear can quickly rouse and run off if disturbed. Therefore, biologists quietly approach to within six to 12 feet of the bear and use a syringe mounted on a pole to inject an immobilizing drug into the bear. Yearlings, which can weigh between 30 and 100 pounds, must be similarly sedated. Cubs, which weigh four to eight pounds, can be handled

without sedation. The drugs usually give biologists more than an hour to examine the bears and take measurements.

All 16 sows were accompanied by offspring, 11 had new cubs and five had yearlings. This is not unusual because all of the sows are older than three years, the age when black bears can first give birth. An average of 2.1 cubs was found in the new litters. Fourteen yearlings were expected to be found in six of the litters based on the number of cubs observed in the 2008 den checks. Ten yearlings were actually found, indicating that over 70% of cubs survived their first year. The reproduction and survival observed this past winter were very similar to levels documented in den checks over the last six years and show the potential for continued rapid growth of the population.

Female bears choose a variety of settings for dens. In Connecticut, sows commonly den under or next to fallen trees or brush piles. The sow and off-

spring may be almost entirely concealed or the slash may provide about as much cover as a ragged umbrella. More than half of the dens located this past winter were associated with brush or fallen trees. It is not uncommon for bears to make a bed of leaves and twigs and lay, curled like a sleeping dog, on the ground with little or no shelter, exposed to all of winter's snow, ice, wind, and rain. These nests are often next to large trees which may serve as an emergency escape from danger – even four-month-old cubs can climb well. Three sows checked this year used nests next to large trees. Even less common in Connecticut but observed regularly in the southeast are dens in hollow trees. No tree dens were found this winter. One sow slept underground in a den she excavated, perhaps by enlarging the burrow of a smaller animal, such as a fox or woodchuck. There seems to be no shortage of potential den sites in most Connecticut woodlands.

Funding Provided to Demolish Long Beach Cottages

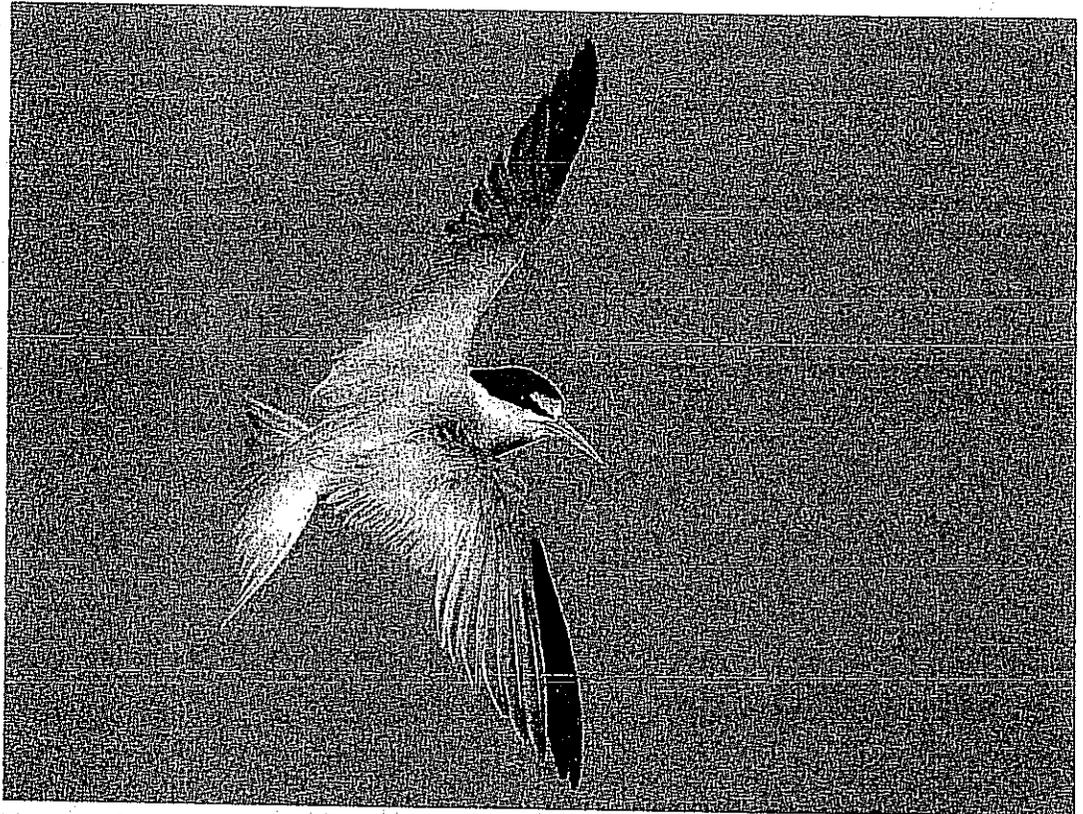
First Step in Protecting Critical Habitat for Piping Plovers and Least Terns

In April 2009, Congresswoman Rosa L. DeLauro announced that \$909,000 was committed for the Barrier Beach Restoration on Long Beach West through the American Recovery and Reinvestment Act. This funding will allow for the demolition and clean-up of the 41 abandoned cottages on Long Beach West in Stratford. Plans to remove the cottages also involve demolition and restoration of the site that will provide an important natural place for the community to enjoy, as well as protect critical wildlife habitat. This is an important step in the town of Stratford's work to sell the property to the U.S. Fish and Wildlife Service to become part of the Stewart B. McKinney National Wildlife Refuge.

Progress on the Barrier Beach Restoration Project is the result of a strong private-public partnership that includes the support of the Town of Stratford; the Connecticut Department of Environmental Protection; the U.S. Fish and Wildlife Service, Coastal Program; the National Fish and Wildlife Foundation; the Trust for Public Land; and Audubon Connecticut.

"At long last we will finally be able to not only demolish and clean-up the cottages on Long Beach West, but we will also be able to begin to restore this habitat. With no access for firefighters and other first responders, these cottages have been a threat to public safety and a liability for Stratford," said DeLauro. "It is my hope, that by taking these important steps we will also move closer to selling the property to the U.S. Fish and Wildlife Service for the agency to manage and I will continue to work with the city, the residents and the Fish and Wildlife Service to make this happen."

This project represents an important preservation and restoration of a coastal barrier beach that constitutes 20% of all



The removal of abandoned cottages and the planned restoration of the barrier beach at Long Beach West in Stratford will help provide critical nesting habitat for the state threatened least tern (above) and the state and federally threatened piping plover.

barrier beaches in Connecticut.

"It is good news that stimulus funds are being provided to the U.S. Fish and Wildlife Service's Coastal Program for the removal of abandoned cottages on Long Beach West. These funds, in addition to those that the state and other partners are making available, will allow us to take down these cottages, restore valuable public access to a beautiful stretch of Long Island Sound shoreline, and restore a barrier beach habitat for a variety of threatened and endangered species. This project is a great example of how local, state, and federal government agencies, along with non-profit partners, can work together to protect our natural coastal areas and improve both public safety and our quality of life," Connecticut Governor M. Jodi Rell said.

Long Beach West is a critical nesting area for the state and federally threatened piping plover and the state threatened least tern. Many traditional nesting beaches for these birds have been lost to development or are impacted by disturbance from beach visitors.

"This funding under the President's Recovery Act would enable the removal of dilapidated cabins and restoration of natural conditions on Long Beach West. In addition to providing an economic boost to local communities, this project supports the Fish and Wildlife Service's ongoing efforts to conserve fish and wildlife resources and quality outdoor experiences for future generations," said Sharon Marino, from the U.S. Fish and Wildlife Service.

The Barrier Beach Restoration project on Long Beach West represents a priority need identified by the U.S. Fish and Wildlife Service through its capital planning process or existing plans. The agency worked through a merit-based process to identify and prioritize projects before finalizing the project list by ensuring the investments met the criteria put forth in the Recovery Act: namely, that a project addresses the Department's highest priority mission needs; generates the largest number of jobs in the shortest period of time; and creates lasting value for the American public.

Taking Conservation into the Future

State Wildlife Grant Project: Researching Native Bee Pollinators

The need for information on native pollinators is urgent. Agriculturalists and scientists alike are reporting rapid and serious declines of pollinators nationwide. Habitat loss and degradation, pesticide use, and introduced diseases have all contributed to the decline of native solitary and bumble bees and the familiar managed European honey bee. Two bumble bee species that are important crop pollinators, the rusty patched bumble bee and the yellow-banded bee, have not been seen in the eastern United States in over a decade. There is growing concern that a number of North American native bee species are sliding toward global extinction. In an effort to address these serious and immediate conservation challenges, a tremendous amount of data on Connecticut bees has been collected and evaluated starting in 2007 through a State Wildlife Grant-funded collaborative project with the University of Connecticut. To date, over 6,900 records of individual bees have been entered into a statewide database. All occurrence data on bees, including GPS location coordinates, are entered into the American Museum of Natural History's Bee Database and are available at <https://research.amnh.org/pbi/locality/>. The records are also uploaded on a regular basis to Discover Life (<http://www.discoverlife.org/>), where they can be mapped and the records can contribute information for regional and national pollinator conservation efforts.

As a result of the inventory and assessment project, four bees have been proposed for state listing (1 endangered and 3 special concern species). Unfortunately, the three special concern species are thought to be extirpated from the state, and it may be too late to take



M. THOMAS, COURTESY FOR WILDLIFE DIVISION

Habitat loss and degradation, pesticide use, and introduced diseases have all contributed to the decline of native solitary and bumble bees (pictured above) and the familiar managed European honey bee.

action on their behalf. When the listing update is finalized in 2009, Connecticut will become the first eastern state in North America to provide legal protection for its bee pollinators through the state's Endangered and Threatened Species Act. Conserving native pollinators that are experiencing serious declines is important to both the biodiversity of Connecticut and the state's economy. To learn more about the conservation of native pollinators, visit the website of the Xerces Society at www.xerces.org/pollinator.

What Is the State Wildlife Grants Program?

The State Wildlife Grants (SWG) Program provides federal grants to all states to benefit wildlife and their habitats with the goal of preventing species from becoming endangered. Funds are appropriated annually and must be used for projects that improve the conservation of species identified as those of Greatest Conservation Need (GCN) within a state's Comprehensive Wildlife Conservation Strategy (CWCS). Connecticut's CWCS, which was completed in 2005, was the culmination of a comprehensive two-year planning effort that included input from a variety of species experts, conservation groups, and other stakeholders. SWG projects have greatly benefited knowledge of the distribution and abundance of GCN species in Connecticut and the factors limiting their populations. This information is critical to future conservation efforts.

Opportunities to Volunteer for Wildlife!

Chimney Swifts in the Chimney?

Chimney swifts are beneficial neighbors and tenants because they are insectivores that eat mosquitoes, biting flies, termites, and other insects. These birds appear to be declining across their range, and one possibility for this is the decreasing number of open, available chimneys. It is the DEP Wildlife Division's goal to get a better idea of the types of chimneys that swifts use, as well as develop a monitoring protocol. If you have had swifts in your chimney in the past or have

them this year, let us know! We are looking for volunteers to monitor their own chimneys for chimney swift activity. Volunteers from throughout the state are also needed to survey selected chimneys to help identify additional nesting structures.

Nesting Raptors

The Division also is looking for volunteers to help find active raptor nests, as well as monitor the nests through the fledging of young. If you know of any raptor nests,

please contact the Division. Information needed is the species of bird, the structure the nest is located in or on, directions, date seen, and any activity you noticed.

Contact us and volunteer! If you are interested in volunteering or would like to report a nesting site of raptors or chimney swifts, please contact: Shannon Kearney-McGee at the Wildlife Division's Sessions Woods office (P.O. Box 1550, Burlington, CT 06013; (860) 675-8130) or send email to shannon.kearney@ct.gov.

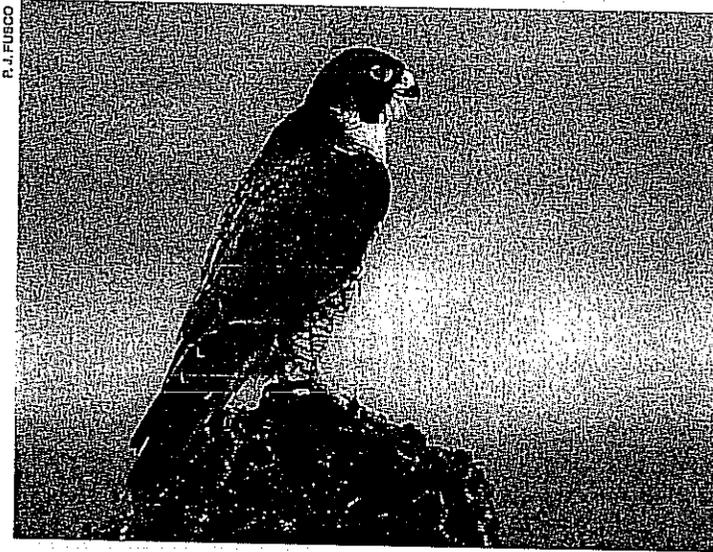
Update on Bald Eagle and Peregrine Falcon Nests

Every year, several dedicated volunteers and Wildlife Division staff monitor all of the bald eagle and peregrine falcon nests located in Connecticut throughout the nesting and fledging seasons. Division biologists also attempt to visit all of the nests to place identifying leg bands on the young birds before they fledge.

So far this year, the volunteers and Wildlife Division biologists have been monitoring 18 pairs of bald eagles, of which 15 are actively nesting. Ten pairs of peregrine falcons are currently nesting as well.

Stay tuned to *Connecticut Wildlife* to learn if these state endangered birds of prey have a successful nesting season.

| County | Pairs of Bald Eagles | Pairs of Peregrine Falcons |
|------------|---------------------------|----------------------------|
| New Haven | 2 active 1 inactive | 2 active |
| Hartford | 5 active 1 failed | 2 active |
| Middlesex | 3 active | 1 active |
| New London | 2 active 1 territorial | 2 active |
| Litchfield | 2 active | |
| Fairfield | 1 active | 3 active |



P. J. FUSCO

Keep Your Distance from Eagle and Peregrine Nests

All of the bald eagle nests, except for one, are located on private land. The nest on state land is posted closed during the nesting season. Most of the private lands where nests are located are posted. Whether they are posted or not, **TRESPASSING IS NOT WELCOMED.** Nests are patrolled by DEP ENCON Police Officers. According to Connecticut State Statutes, disturbance of a bald eagle nest is prohibited and a "no access area" for nests is 700 feet. Any person who violates this statute is subject to a fine and/or possible imprisonment.

Attention Upland Bird Hunters: 2009 Pheasant Season Is On!

Written by Laurie Fortin, Recreation Management Program

Thanks to the efforts of sportsmen statewide, the pheasant stocking program will occur during the 2009 hunting season. With a growing deficit in the state budget, some changes will be made to the program, but overall it will remain similar to efforts made in past years. One major change this year is that pheasant tags will not be available from the town clerks. Instead, tags can be purchased online or at the town clerks' offices and then the tags will be mailed to hunters. Hunters wishing to purchase tags over the counter will need to go to one of several DEP offices. The offices that are expected to sell tags over the counter are the DEP Headquarters in Hartford (79 Elm Street), Sessions Woods Wildlife Management

Area (WMA) in Burlington (341 Milford Street), Western District Headquarters in Harwinton (230 Plymouth Road), Eastern District Headquarters in Marlborough (209 Hebron Road), DEP Marine Headquarters in Old Lyme (33 Ferry Road), and Franklin WMA (391 Route 32). Office hours and directions to these facilities are available on the DEP website (www.ct.gov/dep; click on "Contacts" at the top of the page).

For the first time in over 10 years, the pheasant program saw an increase in tag sales during the 2008 season. This increased revenue will allow the DEP Wildlife Division to buy approximately the same number of birds in 2009 as was purchased in 2008, despite increased ad-

ministrative costs and an increase in the price of birds. Highlights of this upcoming season will include the continuation of stocking efforts at high quality areas three days a week, occasional Saturday stockings statewide, and the potential opening of two new areas – John Minetto State Park in Torrington, which will be handicap accessible, and Suffield WMA, which is a 500-acre grassland area that was recently purchased.

Interested hunters should check the DEP website at www.ct.gov/dep/hunting. The projected stocking schedules should be posted sometime this summer, along with any additional updates about the program.

Online Licensing for Sportsmen Available on the DEP Website

Go to www.ct.gov/dep/sportsmenlicensing to purchase Connecticut hunting, trapping, and fishing licenses, as well as all required deer, turkey, and migratory bird permits and stamps. The system accepts payment by VISA or MasterCard.

Great Park Pursuit at Sessions Woods

The Great Park Pursuit (GPP), The Connecticut State Parks Family Adventure, is a central element of Connecticut's nationally recognized No Child Left Inside initiative. The game takes registered Connecticut families to seven different state parks and forests in May and June. The GPP kicked-off on May 9 at Squantz Pond State Park, in New Fairfield, and will conclude on June 20, with a day of activities followed by a family campout. Some of the events are guided by DEP staff and volunteers on specific Saturdays, while other activities are "self-guided" and families can visit these locations anytime during the seven-week contest period. At each location, teams are asked to complete at least one activity that highlights the vast opportunities in Connecticut's state parks and forests, such as hiking, canoeing, fishing, and more.

The DEP Wildlife Division's Sessions Woods Wildlife Management Area, in Burlington, was the site of



P.J. FUSCO (3)



the second guided event for GPP families on May 16. Wildlife Division and GPP staff, Master Wildlife Conservationists, and members of the Friends of Sessions Woods organized several activities that centered on a theme of birds to provide an opportunity for families to learn about birds and also explore the wildlife management area. Activities included bird walks, wildlife habitat walks, build a bluebird box, make a bird nest, storytelling, make a turkey call, ducks and decoys, and live hawks and owls, to name a few. According to comments families posted on the No Child Left Inside website (www.NoChildLeftInside.org), the event at Sessions Woods was enjoyable and many hoped to return to the area in the future to see more of the natural features and take advantage of the educational opportunities.



Top: Master Wildlife Conservationists Henry and Carol Perrault lead a bird walk along a trail at Sessions Woods for Great Park Pursuit families.

Above: Master Wildlife Conservationists man a table with a wildlife quiz that tests the knowledge of families.

Right: Scott Heth, from Audubon Sharon, shows a live barred owl to participants in the Great Park Pursuit. Scott also brought a kestrel, turkey vulture, and screech owl.



Do you have an interesting wildlife observation to report to the Wildlife Division?

Please send it (and any photos) to:
Wildlife Observations, DEP - Wildlife Division, P.O. Box 1550, Burlington, CT 06013, or email: katherineherz@ct.gov

Finding a Rare Spring Salamander

Connecticut Wildlife reader, Pete Vertefeuille, has had articles and photographs published in *The Hampton Gazette*. He recently wrote to tell us about a unique wildlife observation he made during a spring wildflower walk in April 2008.

"During an annual wildflower walk in early springtime, we visited a particular place that is sort of unique -- a habitat that is in a fairly high elevation and contains a fragile ecosystem.

As I was crossing a brook, something bright caught my eye. To my left and partly behind a boulder there was what appeared to be an amphibious creature belly-side-up in the brook. I took a closer look at what appeared to be a huge salamander that was a bright salmon color. It was between six to six-and-a-half inches long. I had no idea what species it was. Fortunately, I had my camera handy and took enough photos for proper identification later on. Because I had nothing to collect the dead salamander in, I left it behind.

After arriving home, I searched the Internet to try to identify the salamander. I also sent a photo of the animal to the Audubon Society to see if someone could help with the identification. Finally, I came across what appeared to be the likeness of my treasured find. The northern spring salamander seemed to fit the picture near perfectly.

Within a day, I received an email from Hank Gruner, Vice President of Programs at the Connecticut Science Center in Hartford who is also an authority on reptiles and amphibians. Hank had been forwarded a copy of my email and photo and he was anxious



to see the salamander to make a proper identification.

When Hank and I finally met, he shared more information than I was able to find on the Internet. The northern spring salamander is listed as threatened on Connecticut's Endangered and Threatened Species List. Its habitat is cool, shaded mountain brooks or springs at high elevations, wet areas under logs and stones, or under leaves in the forest. It may reach to around five to seven inches in length and its life expectancy is unknown but greater than five years. The spring salamander feeds on insects, earthworms, other smaller salamanders, spiders, and small frogs. The salamander breeds from October throughout the winter. It is one of

three salamanders that are found in streams in Connecticut; the other two are the northern dusky salamander and the northern two-lined salamander. Connecticut's spring salamander population has become threatened because of impacts to its wetland habitat and the degradation of water quality due to nearby development and the clearing of trees.

For perhaps a couple of hours or so, I watched Hank slowly raise flat rocks from the bed of the tiny brooks, as he tried not to stir up silt. We both anticipated finding the spring salamander somewhere along the way. Our hopes were mixed, as in one moment it seemed like we would finally discover a specimen and, in the next moment it appeared chances were becoming slim since this species is nocturnal. No matter what happened, our time in the woods was quiet and peaceful, and filled with hope. Hank gladly answered all my questions as we moved along.

We finally approached the place where the dead salamander was submerged in the brook. Hank examined and confirmed it as a spring salamander. After he collected the specimen, we went back to our search, following the meandering brook. We kept this momentum going until the brook turned into a swampy area and we decided to head back. On the way out of the woods, Hank talked about coming back with a few other people who are authorities on the salamander. They would have a better chance of discovering a live spring salamander than one person searching alone."

Update on the "Hanging" Osprey

The September/October 2008 issue of *Connecticut Wildlife* contained a photograph of a dead adult osprey dangling from its nest after becoming entangled in discarded fishing line. This stark and disturbing photograph was taken by Hank Golet, a member of Connecticut's Bald Eagle Study group who is also actively involved in monitoring ospreys. Since its publication in the magazine, the image has stirred our readers to write about their experiences of finding other birds wrapped in fishing line and kite string. The DEP Fisheries Division also used the photograph in the 2009 *Connecticut Angler's Guide* to encourage anglers to dispose of their fishing line and litter properly.

After taking the photograph last year at the Roger Tory Peterson Wildlife Area in Old Lyme, Hank removed the dead osprey and found that it had an identifying leg band. The number on the band (#788-38468) was submitted to the U.S. Fish and Wildlife Service's Bird Banding Lab for identification. It was determined that the osprey had been banded by the late Jerry Mersereau, a longtime Wildlife Division volunteer and bird bander, on June 28, 1999, at Groton Utilities in Groton.

H. GOLET, FOR WILDLIFE DIVISION



Report turkey brood sightings to the Wildlife Division! To participate in this research of Connecticut's turkey population, contact Wildlife Division biologist Mike Gregonis at 860-642-7239 or michael.gregonis@ct.gov to obtain the brood survey protocol and data sheets.

What Happened to the March/April 2009 Issue of Connecticut Wildlife?

We were unable to publish the March/April 2009 issue due to the state budget situation, which resulted in restrictions on the printing of publications. Fortunately, we are able to continue publishing *Connecticut Wildlife*, starting with this May/June issue. To compensate for the "lost" issue, all of our readers who should have received the March/April issue will have their subscriptions extended by one issue. For example, if your subscription is set to expire in July/August 2009, it will now expire in September/October 2009. We apologize for any inconvenience this delay may have caused and we look forward to continuing to publish a magazine dedicated to informing you about Connecticut's wildlife resources. Please feel free to contact us with any questions and concerns by calling or writing the Sessions Woods office or sending email to the editor at katherine.herz@ct.gov.

Wildlife Calendar Reminders

- June-August Respect fenced and posted shorebird nesting areas when visiting Connecticut beaches. Also, keep dogs and cats off of shoreline beaches to avoid disturbing nesting birds.
- Herons and egrets are nesting on offshore islands in Long Island Sound. Refrain from visiting these areas to avoid disturbing the birds.
- Dispose of fishing line in covered trash containers or specifically marked recycling receptacles. Improperly discarded fishing line is a hazard for wildlife.
- July 4 While viewing fireworks displays at Connecticut coastal areas, respect fenced and posted shorebird nesting areas and offshore heron and egret rookeries.

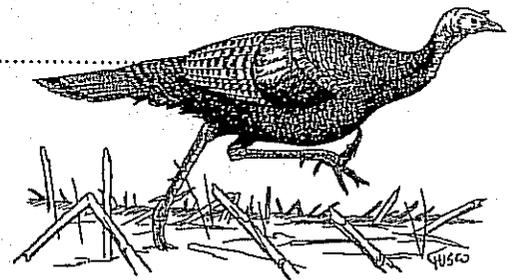
Programs at the Sessions Woods Conservation Education Center

Programs are a cooperative venture between the Wildlife Division and the Friends of Sessions Woods. Please pre-register by calling 860-675-8130 (Mon.-Fri., 8:30 AM-4:30 PM). Programs are free unless noted. An adult must accompany children under 12 years old. No pets allowed! Sessions Woods is located at 341 Millford St. (Route 69) in Burlington.

- July 1 **10 Tips to Successful Wildlife Photos**, starting at 8:30 PM. Wildlife Photographer and Master Wildlife Conservationist Gary Melnysyn will provide participants with 10 practical tips to successful wildlife images. Gary's beautiful images will be used to support a discussion on each tip. This will be an open forum that encourages questions about photo techniques or the wildlife itself. Gary has photographed moose, bears, bald eagles, and various other wildlife species. The presentation will be visually impressive and informative!
- August 1 **Mushroom Walk and Workshop**, starting at 10:00 AM. Dianna Smith, from the Connecticut Westchester Mycological Association, will lead this talk and walk at Sessions Woods on the identification of fungi in Connecticut. Please bring a hand lens or magnifier and wax paper bags. Insight will be provided on the various mushroom field guides available to enthusiasts. The walk will feature the identification of common mushrooms along the trails at Sessions Woods. Participants should meet inside the Sessions Woods Conservation Education Center.
- August 12 **Nature Walk for Young Children**, starting at 9:30 AM. Children, ages 4 to 7, and their caregivers are welcome to join Master Wildlife Conservationist and Wildlife Division staff member Lauren Pasniewski for an easy walk at Sessions Woods. Participants will learn about plants and animals while having fun outdoors. Parents will discover interesting facts about wildlife and new ways to increase the observational skills of their children.
- August 15 **Butterfly Walk at Sessions Woods**, starting at 10:30 AM. Interested in learning about butterflies and invertebrate conservation? Join Wildlife Division Educator Laura Rogers-Castro for an introductory walk focusing on butterfly identification. Participants also will learn about using native plants to create butterfly habitat.

Correction: In the January/February 2009 issue of Connecticut Wildlife, Machinoodus State Park (page 18) was mistakenly identified as being in Haddam. The park is actually located in East Haddam.

Connecticut Wildlife



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The 2009 moose crew from left to right: Seasonal Research Assistant Paul Lewis, Seasonal Research Assistant Bill Embacher, Wildlife Division biologist Michael Gregonis, Wildlife Division technician Jason Hawley, Wildlife Division biologist Andrew LaBonte, and Seasonal Research Assistant Alex Johnson.

G. FLEMING FOR WILDLIFE DIVISION