



### WP-25-7

Wetlands Permitting

Status: Active

Submitted On: 3/18/2025

### Primary Location

77 TALL OAK DR  
Coventry, CT 06238

### Owner

FRECHETTE, DAVID  
77 TALL OAK DR COVENTRY, CT  
06238

### Applicant

Dorian Famiglietti  
 860-812-1765  
 dfamiglietti@kkc-law.com  
 45 Hartford Tnpk  
Vernon, CT 06066

Applicant/Owner Information: Please note that "?" bubbles throughout the application provide additional helpful information when hovered over.

### Applicant Information

Applicant's Association to Owner:\*

Applicant Business Name (if applicable)

Owner

### Additional Information

Additional Agent, Engineer, Contractor Information (if applicable):

Dorian L. Reiser, Esq.

### Wetlands Permitting

Type of Wetlands Application:\*

Regulated Activity Application

Regulated Activity Being Applied For: \*

Activity Within a Designated Wetlands or Watercourse

## Activity/Project Information

### Description of Proposed Activity(s):\*

In order to correct a violation of illegal filling of an alleged regulated area, applicant seeks an after-the-fact permit for the filling, as well as approval to conduct remedial measures (creation of a new wetland) within an upland review area

**Distance in Feet from Regulated Wetlands/Watercourse:\***

0

**Square feet of Wetlands, Watercourse and/or Regulated Area Impacted:**

11,000 sf (estimate per aerial photography)

### **Describe measures (if any) that will be taken to minimize the impact on wetlands, watercourses, and the regulated areas:**

To compensate for the impact to the alleged regulated area (likely an isolated wetland with seasonal flooding), applicant will create a new wetland, approximately 3600 sf with imbedded vernal pool, adjacent to an existing wetland on the property. The proposed wetland is anticipated to have higher functions than the impacted regulated area, as well as complimentary wetland cover types.

### **Any additional and/or pertinent information:**

See attached Wetland/Vernal Pool Creation plan and report prepared by REMA Ecological Services, LLC, dated February 10, 2025

### **Is any portion of the property on which the regulated activity is proposed located within 500 feet of an adjoining municipality?\***

No

# Acknowledgments

**MANDATORY PRE APPLICATION FOR ALL LAND USE, HEALTH, AND BUILDING APPLICATIONS** Except for interior work in existing buildings and exterior work that does not expand or alter the footprint of an existing building. Effective October 1, 2005 no Land Use, Health or Building application for a permit may be filed until the holder(s) of any conservation restriction or preservation restriction on the subject property has been notified. Please see the attached legislation, PA 05-124. Please provide the name of the property owner(s) and street address of the property for which one of the above applications will be submitted and complete either A or B below. Property Owner(s): Address of Permit Application: A. I hereby certify there are NO conservation easements or restrictions nor any preservation restrictions on the above referenced property. B. There ARE conservation easements or restrictions or preservation restrictions on the above referenced property. Name/Phone Number of Restriction Holder: Please attach one of the following: 1. Proof that the holder of the conservation or preservation restriction was notified by certified mail return receipt requested of the property owner's intent to apply for a Land Use, Health or Building permit in the [[orgFullName]]. 2. A letter from the conservation or preservation restriction holder verifying that the application is in compliance with the terms of the restriction.\*



I HEREBY ACKNOWLEDGE AND CERTIFY THAT I'M PERSONALLY FAMILIAR WITH ALL THE INFORMATION PROVIDED IN THIS APPLICATION AND THAT ALL STATEMENTS AND REPRESENTATIONS MADE ARE TRUE TO THE BEST OF MY KNOWLEDGE. I FURTHER CERTIFY THAT I AM AWARE OF THE PENALTIES FOR OBTAINING A PERMIT THROUGH DECEPTION OR THROUGH INACCURATE OR MISLEADING INFORMATION.\*



The undersigned electronic signature hereby grants permission to this Agency and its Agent to conduct any necessary inspections of this property, at reasonable times, both before and after the permit in question has been granted by the Agency/Agent.\*

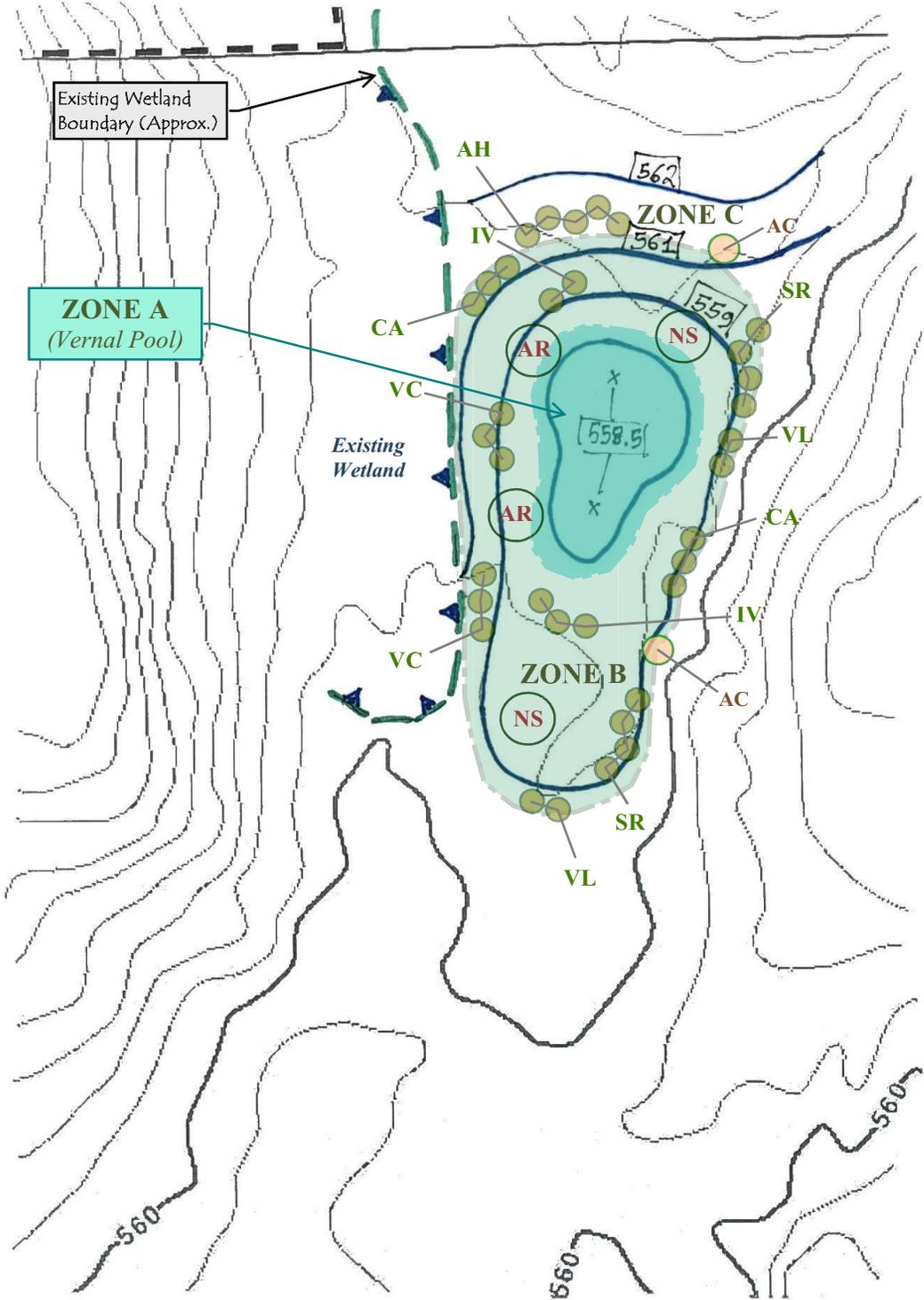


I agree that my electronic signature below warrants the truth of all statements contained herein and in all supporting documents according to the best of the Agent &/or Owner(s) knowledge and belief, and that it is equivalent to a handwritten signature and is binding for all purposes related to this transaction.\*

Dorian L. Reiser, attorney for applicant  
Mar 12, 2025

Plot Plan for David Frechette – 77 Tall Oak Drive, Coventry, CT

IN PROCESS – WILL BE ADDED TO FILE ONCE COMPLETED



## WETLAND/VERNAL POOL CREATION

77 TALL OAK DRIVE, COVENTRY, CT  
 Annotated by: REMA Ecological Services, LLC, Vernon, CT  
 Date: February 10, 2025  
 SCALE: 1" = +/-28' (8.5" x 11.0" format)  
 Base Map: CTECO w/ 1-contour topo (2016)

### PLANTING ZONES:

Zone A: Seasonally Flooded (800 sq. ft.)  
 Zone B: Seasonally Saturated/Temporarily Flooded (2,800 sq. ft.)  
 Zone C: Moderately well drained/Moist (900 sq. ft.)

### PLANTING MATERIALS CODES:

Red maple (2)	AR	Black gum (2)	NS
American hazelnut (5)	AH	Shadblow (2)	AC
Gray dogwood (8)	SR	Nannyberry (4)	VL
Sweet pepperbush (6)	CA	Winterberry (5)	IV
Highbush blueberry (6)	VC	(see Tables 1 and 2)	

### NOTES:

- Herbaceous species (see Table 3) will be planted in groupings of 5 to 10 in Hydrologic Zones B and C
- for seeding zones see Table 4.
- Also see Implementation Notes for comprehensive instructions.
- Roughness elements, such as logs and branches will be placed within created wetland, and especially within and at the edge of the "vernal pool" area.

# MITIGATION PLAN FOR CREATION OF WETLAND HABITATS

## IMPLEMENTATION NOTES

### 1.0 INTRODUCTION

EMERGENT WETLAND (I.E., WET MEADOW/MARSH AND SCRUB SHRUB SWAMP) CREATION BY EXCAVATION, AND HERBACEOUS AND WOODY PLANTINGS, WILL TAKE PLACE AT ONE LOCATION AT THE SUBJECT PROPERTY.

SOILS AT THE WETLAND CREATION SITE ARE PREDOMINATELY MODERATELY WELL DRAINED FINE SANDY LOAMS TO A DEPTH OF 3 FEET. IN THE CREATION WETLAND AREA TWO TEST PITS WILL BE ADVANCED WITH A MINI EXCAVATOR IN ORDER TO CONFIRM THE EXPECTED HYDROLOGICAL CONDITIONS, AND EVIDENCE OF A SUSTAINED SEASONAL HIGH GROUNDWATER TABLE.

THE GOAL FOR WETLAND CREATION AREA, IN REGARD TO HYDROLOGY, IS TO CREATE SEASONAL FLOODED AND SEASONALLY SATURATED HYDROLOGIC REGIMES FROM THREE SOURCES: (1) DIRECT PRECIPITATION, (2) GROUNDWATER, AND (3) OVERLAND FLOW. THE LATTER INCLUDES OVERFLOW FROM THE ADJACENT DELINEATED WETLAND.

THOUGH GOOD-QUALITY NATIVE VEGETATION OF FORESTED UPLAND HABITATS DOMINATE THE ADJACENT UPLANDS, PARTICULARLY TO THE NORTH AND WEST, THE SELECTED CREATION AREA HAS LOWER HABITAT VALUE, AND FEW TREES.

IN-KIND MITIGATION (I.E., CREATION) IS PROPOSED TO OFF-SET LOST FUNCTIONS & VALUES OF A PAST IMPACT UPON AN ISOLATED WETLAND, WITH APPARENT SEASONAL FLOODING, BASED ON AERIAL PHOTOGRAPHY. THE GOAL IS TO CREATE AN ECOLOGICAL COMMUNITY WITH AT LEAST COMPARABLE, AND PREFERABLY HIGHER, FUNCTIONS AND COMPLIMENTARY WETLAND COVER TYPES TO THE WETLANDS THAT WERE IMPACTED. THE INITIAL TARGET COVER TYPE RATIO FOR THE WETLAND CREATION SHALL BE 2/3<sup>RDS</sup> EMERGENT (I.E., WET MEADOW) AND 1/3<sup>RDS</sup> SCRUB SHRUB & FORESTED HABITATS. APPROXIMATELY **3,600 SQUARE FEET** OF PRODUCTIVE WETLAND CAN BE CREATED, WHICH INCLUDES +/- 800 SQUARE FEET OF A SEASONALLY FLOODED "SUMP" DESIGNED TO ATTRACT VERNAL POOL OBLIGATE SPECIES, SUCH AS MOLE SALAMANDERS AND WOOD FROG. MOREOVER, ENHANCEMENT OF THE ADJACENT UPLAND HABITAT TO THE NORTH WILL BE PROVIDED AS COMPLIMENTARY HABITAT. ADDITIONALLY, THE REMOVAL OF INVASIVE SPECIES WILL TAKE PLACE WITHIN 25-30 FEET OF THE WETLAND CREATION AREA.

THE WETLAND CREATION GOAL IS 100% COVER, AND 95% COVER BY NATIVE SPECIES, BY THE END OF THE THREE-YEAR (3) MONITORING PERIOD. PLANT SPECIES WERE SELECTED TO ENCOMPASS THE FOLLOWING CRITERIA: FOOD PLANTS FOR CATEPILLARS, BEETLES, AND

OTHER INSECTS; FRUIT, SEED, AND NUT PRODUCTION IN DIFFERENT SEASONS, INCLUDING PERSISTENT WINTER FRUIT AND SPRING SEEDS; FORAGE FOR VERTEBRATE HERBIVORES; SUITABLE MICRO-HABITATS FOR OVERWINTERING INSECTS; AND NECTAR AND POLLEN THROUGHOUT THE GROWING SEASON (SEE TABLE 3). SPECIES ALREADY PRESENT IN NEARBY WETLAND HABITATS, ESPECIALLY WOODY SPECIES, WERE SELECTED FIRST, AS THEY ARE ALREADY USED BY THE LOCAL FAUNAL ASSEMBLAGE.

**NOTE:** ALL WETLAND REPLICATION WORK, SHALL BE SUPERVISED BY AN ECOLOGIST (OR WETLAND SCIENTIST), INCLUDING INITIAL GRADING, PLANTING, MARKING INVASIVES IN ADJACENT UPLAND BUFFER AREAS, AND MARKING ANY NATIVE MATERIALS FOR SALVAGE OR RETENTION. A PRE-IMPLEMENTATION MEETING SHALL TAKE PLACE AT LEAST ONE MONTH PRIOR TO PLAN IMPLEMENTATION, BETWEEN THE WETLAND SCIENTIST, THE SITE CONTRACTOR, AND THE LANDSCAPER, AND THE TOWN'S WETLAND AGENT, AT THE TOWN'S DISCRETION.

## **2.0 WETLAND CREATION**

### **PREPARATION**

1. ORDER THE TRAYS OF HERBACEOUS PLUGS AND THE SEED MIX, FOR DELIVERY RIGHT AFTER COMPLETION OF GRADING. STORE IN SHADE WHEN THEY ARRIVE.
2. EARTHWORK FOR THE WETLAND CREATION AREA, WILL TAKE PLACE IN APRIL / MAY, OR IN AUGUST, SO THAT PLANTINGS CAN BE INSTALLED IMMEDIATELY AFTERWARDS, EITHER IN LATE SPRING OR VERY EARLY FALL SEASONS.
3. AS LONG AS THE EXISTING UPLAND TOPSOIL IS NOT UNDULY INFECTED BY INVASIVE PLANT SPECIES, IT CAN BE TEMPORARILY STOCKPILED TO BE USED FOR THE FINAL GRADE OF THE WETLAND CREATION AREA.
4. A ONE TO TWO INCH THICK "TOP-DRESSING" CONSISTING OF HIGH QUALITY TOPSOIL SHALL BE APPLIED TO THE FINAL GRADE AT THE WETLAND CREATION. THIS WILL BE ENHANCED WITH 2-YEAR OLD (MINIMUM) HIGH QUALITY COMPOST.
5. PRIOR TO ANY SOIL DISTURBANCE, INSTALL PERIMETER EROSION CONTROLS AROUND THE MITIGATION AREA, ESPECIALLY BETWEEN THE EXISTING WETLAND AND THE WETLAND CREATION AREA.

### **EARTHWORK**

1. CLEAR AND GRUB THE WETLAND CREATION AREA.
  - i. REMOVE THE EXISTING TOPSOIL FROM THESE LOCATIONS & PLACE IN A DESIGNATED SOIL STOCKPILE AREA
2. **EXCAVATION, GRADING, AND TRANSPLANTING** WILL TAKE PLACE UNDER THE DIRECTION OF THE WETLAND SCIENTIST. GRADING WILL BE BASED ON CONDITIONS OBSERVED AT

THE FIELD BY THE WETLAND SCIENTIST, WHO MAY MAKE SMALL IN-FIELD ADJUSTMENTS TO ACHIEVE THE DESIRED WETLAND HYDROLOGY.

3. NO MACHINERY WILL BE ALLOWED WITHIN THE WETLAND CREATION AREA WHERE TOPSOIL HAS BEEN PLACED.

### PLANTINGS

4. **ORDER THE WOODY PLANTING MATERIALS** FOR DELIVERY DURING THE PLANTING WINDOWS LISTED ABOVE (MID TO LATE SPRING OR EARLY FALL). STORE IN SHADE WHEN THEY ARRIVE AND INSTALL WITHIN THREE DAYS OF DELIVERY. MAKE SURE THAT ALL DESIRED SPECIES ARE AVAILABLE AT TIME OF ORDERING. WETLAND SCIENTIST SHALL APPROVE ANY SUBSTITUTIONS.
5. **CHECK DELIVERY.** MAKE SURE SPECIES, SIZES, AND QUANTITIES ARE AS SPECIFIED.
6. A WETLAND PROFESSIONAL OR ECOLOGIST SHALL SPECIFY THE EXACT PLANTING AND SEEDING LOCATIONS, AND MARK ANY SHRUBS AND PERENNIAL HERBACEOUS PLANTS TO BE TRANSPLANTED AND PLANTED. THE PROFESSIONAL WILL DIRECT THE INSTALLATION, EITHER BY STAKING PLANTING LOCATIONS WITH A WIRE FLAG OR BAMBOO STAKE LABELED WITH THE SPECIES NAME OR CODE; OR POTTED STOCK MAY ALSO BE DIRECTLY PLACED AT PLANTING LOCATION. HOWEVER, THE PROVIDED "WETLAND/VERNAL POOL MITIGATION" PLAN WILL BE FOLLOWED TO THE EXTEND POSSIBLE.
7. **INSTALL THE PURCHASED WOODY MATERIALS FIRST, THEN THE HERBACEOUS PLUGS.**
8. **WOODY PLANTINGS AND LARGE HERBACEOUS PERENNIALS** (SEE TABLE 1 THROUGH TABLE 3) SHALL BE PLANTED IN SAME-SPECIES CLUSTERS, TWO TO THREE FEET APART FOR HERBACEOUS PERENNIALS, FIVE TO SIX FEET APART, FOR SHRUBS, TEN FEET APART FOR SMALL TREE SEEDLINGS/SAPLINGS. LARGER TREES SHALL BE NO CLOSER THAN EIGHT FEET FROM A SHRUB OR SMALL TREE.
9. DIG HOLES *BY HAND* TO *MINIMIZE COMPACTION* OF SOIL (MECHANICAL AUGERS ARE PROHIBITED). WATER HOLES BEFORE PLANTING, UNLESS SOIL IS ALREADY MOIST. ADD *SLOW-RELEASE FERTILIZER* (OSMACOTE, MILORGANITE OR EQUIVALENT) TO PLANTING HOLE. PLACE PLANTS INTO HOLES AND REPLACE SOIL, SO THAT THERE IS FULL COVERAGE OF ROOTS, WITH *NO AIR SPACES* AND LEVEL SOIL AROUND THE PLANT. HOLES SHALL BE OVERSIZED (2X THE ROOT MASS DIAMETER) AND BACKFILLED WITH LOCAL TOPSOIL OR EXTRA TOPSOIL IN AN OVERSIZED TRANPLANT POT (NOT SUBSOIL REMOVED FROM BOTTOM PART OF HOLE).
10. MULCH WITH A TWO TO THREE-INCH LAYER OF WELL-ROTTED HARDWOOD MULCH TO REDUCE COMPETITION FROM MEADOW VEGETATION IN A THREE-FOOT DIAMETER CIRCLE. LEAVE A GAP OF TWO TO THREE INCHES AROUND EACH TRUNK OR STEM. FORM SAUCERS AROUND ALL MULCHED TREE AND SHRUB PLANTINGS, TWO TO THREE INCHES HIGH, 36" ACROSS FOR NURSERY STOCK. WATER RIGHT AFTER PLANTING, UNLESS RAIN IS EXPECTED WITHIN 48 HOURS.

11. **HERBACEOUS PLUGS:** PLANT IN MID TO LATE AFTERNOON, OR UNDER SHADY CONDITIONS, *WATER* IMMEDIATELY AFTER PLANTING. SPACE PLUGS 24 TO 36 INCHES APART, PER PLAN (SEE TABLE 3) IN THE BARE SOIL AREAS, AND SPREAD A TWO-INCH LAYER OF WEED FREE STRAW MULCH IN A SIX-INCH CIRCLE AROUND EACH PLUG. PLANT IN SAME-SPECIES GROUPINGS OF VARIABLE SIZE AND SHAPE.
12. **SEEDING:** AFTER MIXING 1:1 WITH NON-CLUMPING KITTY LITTER (CLAY BASED), SPREAD SEED OVER BARE SOIL AREAS, AVOIDING MULCHED CIRCLES AROUND PLUGS. IF GERMINATION RATES ARE LOW, OVER-SEED IN FALL IN YEAR 2.
13. FOR SPRING SEEDING IN MOIST, BUT NOT SATURATED SOIL, LIGHTLY RAKE IN SEED (LESS THAN ½ INCH DEEP), TAMP DOWN, AND LIGHTLY MULCH WITH STRAW (FREE OF SEEDS) TO HOLD MOISTURE FOR GERMINATION. FOR FALL SEEDING, WAIT UNTIL AFTER HARD FROST; SEED MAY SIMPLY BE SOWN. SNOW AND FROST WILL INCORPORATE INTO THE SOIL. NOTE THAT COLD STRATIFICATION WILL INCREASE GERMINATION RATES OF SOME SPECIES IN A FALL SEEDING, BUT MORE SEEDS WILL ALSO BE EATEN BY WILDLIFE OR WASHED AWAY. IF SOIL IS SATURATED, BROADCAST ON SOIL SURFACE WITHOUT RAKING.
14. SPREAD A THIN LAYER OF *STRAW MULCH* OVER ALL SEEDED AREAS WITHOUT STANDING WATER, ALLOWING SOME LIGHT PENETRATION
15. FOR PLUGS IN THE WET MEADOW PORTION OF THE CREATED WETLAND, AND FOR SEED GERMINATION, WATERING SEVERAL TIMES A WEEK IS ESSENTIAL, IN DRY WEATHER. FOR IRRIGATION, SET UP A PUMP DRAWING ON LOCAL WATER, OR FROM A WATER TANK BROUGHT TO THE SITE.

### **3.0 PROTECTION FROM HERBIVORY**

1. WOODY PLANTINGS WILL BE MONITORED DURING THE FIRST AND SECOND GROWING SEASONS AFTER PLAN IMPLEMENTATION FOR EXCESSIVE HERBIVORY. IF OBSERVED, THE WETLAND ECOLOGIST MAY PROPOSE ADDITIONAL CONTROLS/METHODS TO REDUCE HERBIVORY.
2. AS AN INITIAL CONTROL, THE ORGANIC, SLOW-RELEASE FERTILIZER MILORGRANITE SHALL BE USED AT EACH SHRUB/TREE PLANTING, AND ALONG THE PERIMETER OF EACH OF THE MITIGATION AREAS. THIS FERTILIZER IS A MILD TO MODERATE DETERENT TO HERBIVORY BY DEER. APPLICATION OF MILOGRANITE SHALL TAKE PLACE THREE TIMES DURING THE FIRST GROWING SEASON, SHOULD A DETERRENT BE NECESSARY.

### **4.0 INITIAL FOLLOW-UP AND MAINTENANCE**

1. PROMPT SEEDING AND HAY MULCH APPLICATION FOLLOWING INITIAL GRADING IS KEY, TO PREVENT EROSION OF EXPOSED, RECENTLY GRADED SOILS. GRADING OF WETLAND CREATION AREAS SHOULD BE TIMED TO PRECEDE A FORECAST RAIN-FREE PERIOD, EMCPOMPASSING THE SCHEDULED PLANTING DAY.

2. PERIMETER SEDIMENT CONTROLS. MAINTAIN PER THE 2024 CT E&S CONTROL GUIDELINES, CHECK AFTER EACH RAIN MORE THAN ONE INCH. REMOVE SILT FENCE AND/OR HAYBALES AS SOON AS GROUND IS VEGETATED (>80% COVER) TO PREVENT IMPEDING ANIMAL MOVEMENT TO AND FROM ADJACENT WETLANDS. SEDIMENT COLLECTED BY THESE DEVICES WILL BE REMOVED AND PLACED UPLAND IN A MANNER THAT PREVENTS ITS EROSION AND TRANSPORT TO A WATERWAY OR WETLAND.
3. IRRIGATION: WATER ALL SEEDED AREAS, PLANTINGS AND/OR TRANSPLANTS AT LEAST WEEKLY IN DROUGHTY PERIODS. MORE FREQUENT WATERING WILL INCREASE PLANTINGS' SUCCESS. FOR PLUGS, MORE FREQUENT WATERING COULD BE NEEDED.

## **5.0 WEED CONTROL**

1. FOR 2-3 SEASONS FOLLOWING PLAN IMPLEMENTATION, CONTROL WEEDS IN A THREE-FOOT DIAMETER CIRCLE AROUND WOODY PLANTINGS. NECESSARY FREQUENCY WILL DEPEND ON RAINFALL AND SOIL SEED BANK, BUT AT LEAST MONTHLY FROM MAY TO JULY. MULCH HELPS CONTROL WEEDS, BUT IT IS NOT SUFFICIENT. THE SEED MIX AND OTHER NATURAL COLONIZERS NEEDS TO GERMINATE AND SPROUT IN THE MATRIX AROUND THE WOODY PLANTINGS.
2. FOR CONTROL OF SMALL SEEDLINGS USE A HOE.
3. FOR LARGER WEEDS USE A WEED WHACKER (POLE HEDGE TRIMMER), AS NECESSARY.
4. LANDSCAPER SHALL FOLLOW DIRECTION OF WETLANDS PROFESSIONAL WHO SHALL PROVIDE INITIAL GUIDANCE, BUT NEED NOT REMAIN ON SITE DURING MAINTENANCE.
5. THE WETLANDS PROFESSIONAL WILL POINT OUT TO THE LANDSCAPER CERTAIN WEEDS WHICH ARE BEST PULLED, TO WEAKEN ROOT SYSTEM AND REDUCE NEEDED FREQUENCY FOR WEEDING.
6. OUTSIDE THE THREE-FOOT DIAMETER CIRCLE, WEED ONLY SELECTED UNDESIRABLE COLONIZING PLANTS, INCLUDING INVASIVE SPECIES. THE WETLANDS PROFESSIONAL SHALL TRAIN THE LANDSCAPER TO RECOGNIZE AND AVOID NATIVE SPECIES. INITIALLY, FLAG DESIRABLE NATIVE SPECIES AS A TRAINING AID; ALSO, FOLLOWING ANY PERSONNEL CHANGES.

## **6.0 INVASIVE PLANT CONTROL**

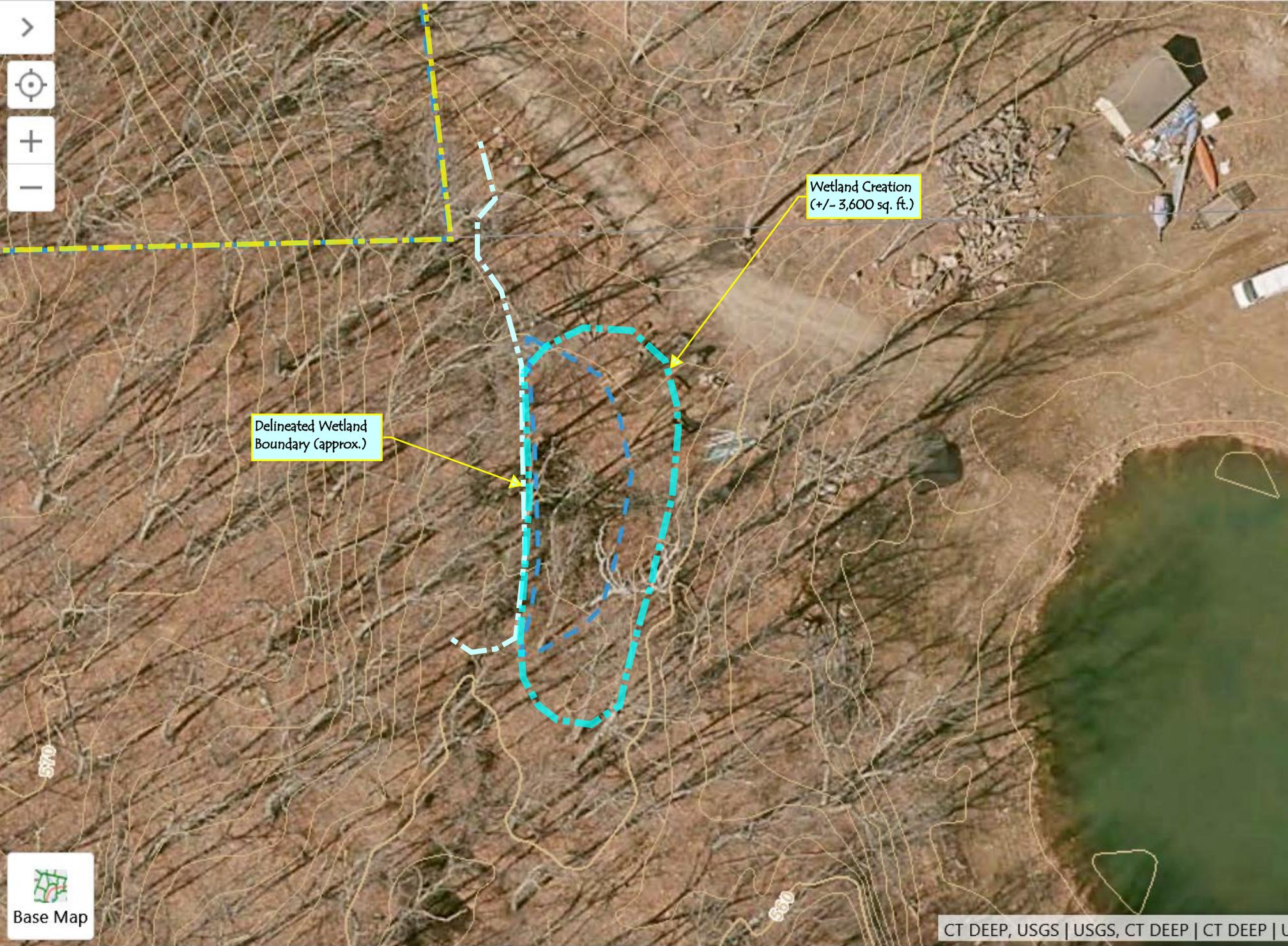
1. THE ECOLOGIST/WETLANDS PROFESSIONAL WILL FLAG WOODY INVASIVES TO BE REMOVED IN THE VICINITY OF THE WETLAND CREATION AREAS (I.E., WITHIN 25-30 FEET) AT THE TIME OF PLAN IMPLEMENTATION, AND PREFERABLY JUST PRIOR TO ANY EARTHWORK.
2. TARGETED, RATHER THAN BROADCAST HERBICIDE APPLICATION METHODS, SHALL BE USED, AS NECESSARY. FOR SPRING TREATMENT, CUT EARLY IN GROWING SEASON (LATE APRIL TO MID MAY) AND TREAT SMALL RESPROUTS IN EARLY SUMMER USING A LOW VOLUME SPRAYER. IN EARLY FALL USE THE "CUT-AND-PAINT METHOD," APPLYING

HERBICIDE TO A RECENTLY CUT STEM (WITHIN 10 MINUTES) ON BROADLEAF INVASIVES. USE A SELECTIVE HERBICIDE LIKE TRICLOPYR (FOUND IN BRUSH-B-GON, GARLON 3A OR 4A, AND OTHER PRODUCTS), RATHER THAN BROAD-SPECTRUM GLYPHOSATE, TO MINIMIZE IMPACTS ON NON-TARGET PLANTS AND SOIL FAUNA.

3. INVASIVE PLANT CONTROL WITHIN THE AREAS OF WETLAND CREATION SHALL TAKE PLACE FOR **TWO (2) YEARS** FOLLOWING THE YEAR OF PLAN IMPEMENTATION (I.E., YEARS 2 & YEAR 3), FOLLOWING THE PROCEDURES PROMULGATED BY THE CT DEEP'S CONNECTICUT INVASIVE PLANT WORKING GROUP (CIPWG), AND/OR THE NATURE CONSERVANCY.

## **7.0 MONITORING**

1. INSPECTIONS BY A QUALIFIED WETLANDS PROFESSIONAL OR ECOLOGIST SHALL TAKE PLACE DURING THE GROWING SEASON, THE THREE MONTHS FOLLOWING INSTALLATION (I.E., YEAR ONE), AND TWICE DURING EACH OF THE **TWO (2) NEXT GROWING SEASONS**, AT THE MITIGATION AREA (I.E., WETLANDS AND ADJACENT UPLANDS), ONCE IN LATE MAY THROUGH JUNE, AND ONCE IN EARLY FALL. ADDITIONAL INSPECTIONS MAY BE NECESSARY AT THE DISCRETION OF THE WETLANDS PROFESSIONAL TO ENSURE THE SUCCESS OF THE WETLAND CREATION, RESTORATION, AND ENHANCEMENT.
2. DURING INSPECTIONS, CHECK MITIGATION AREAS FOR SEEDLINGS OF THE FOLLOWING INVASIVE SPECIES AND MECHANICALLY REMOVE: JAPANESE KNOTWEED, COMMON REED, MORROW'S HONEYSUCKLE, AUTUMN OLIVE, MULTIFLORA ROSE, ASIATIC BITTERSWEET, JAPANESE BARBERRY, GLOSSY BUCKTHORN, BURNING BUSH, MUGWORT, AND GARLIC MUSTARD. INSPECTIONS SHALL BE DONE BY THE WETLANDS PROFESSIONAL, WHO COULD ALSO IDENTIFY OTHER INVASIVE PLANT SPECIES, BUT PERSONNEL TRAINED BY THE PROFESSIONAL IN IDENTIFICATION OF INVASIVE SEEDLINGS MAY ASSIST WITH MECHANICAL REMOVAL (WEEDING).
3. COMPETING PLANTS: IF THE WETLANDS PROFESSIONAL DETERMINES THAT EXCESSIVE NUMBERS OF SEEDLINGS OF A PARTICULAR NATIVE SPECIES HAVE GERMINATED ON SITE (E.G., CATTAIL), REMOVE THEM BY HOEING OR HAND PULLING. COLONIZATION BY A VARIETY OF NATIVE SPECIES IS EXPECTED AND IS DESIRABLE.
4. REMEDIAL MEASURES SUCH AS REPLACEMENT PLANTINGS, HYDROLOGIC ADJUSTMENTS, AND DEER BROWSING PROTECTION, MAY BE RECOMMENDED AND SUPERVISED BY THE WETLANDS PROFESSIONAL AND IMPLEMENTED BY THE PROPERTY OWNER/MANAGER, FOR SIGNIFICANT PROBLEMS.
5. A BRIEF REPORT TO THE TOWN'S INLAND WETLANDS AND WATERCOURSES AGENCY WILL SUBMITTED BY NOVEMBER 30<sup>TH</sup> OF THE MONITORING YEAR.



Wetland Creation  
(+/- 3,600 sq. ft.)

Delineated Wetland  
Boundary (approx.)

Base Map

0 20 40ft

SCALE: 1" = +/- 33'  
(8.5" x 11.0" format)

FIGURE A: WETLAND CREATION AREA  
77 Tall Oak Drive, Coventry, CT

**TABLES OF PLANTING MATERIALS FOR WETLAND CREATION**

<b>Table 1. Trees</b>							
<u>Scientific Name</u>	<u>Code</u>	<u>Common Name</u>	<u>Size</u>	<u>Shade tolerant?</u>	<u>Form</u>		
						<b>Mitigation Area</b>	<b>Total</b>
<b>FULL SIZE TREES</b>							
<i>Acer rubrum</i>	AR	Red maple	4'-6'	N	potted	2	4
<i>Nyssa sylvatica</i>	NS	Black gum	4'-6'	Y	potted	2	2
<b>Total:</b>						<b>4</b>	<b>6</b>
<b>SMALL TREES/LARGE SHRUBS</b>							
<i>Amelanchier canadensis</i>	AC	Shadblow	4'-6'	Y /N	potted	2	2
<b>Totals:</b>						<b>4</b>	<b>2</b>

<b>Table 2. Shrubs</b>							
<u>Scientific Name</u>		<u>Common Name</u>	<u>Size</u>	<u>Shade tolerant?</u>	<u>Form</u>		
						<b>Mitigation Area</b>	<b>Total</b>
<b>MEDIUM TO LOW SHRUBS</b>							
<i>Corylus americana</i>	AH	American hazelnut	3'-4'	Y	potted	5	5
<i>Clethra alnifolia</i>	CA	Sweet pepperbush	3'-4'	Y	potted	6	6
<i>Ilex verticillata</i>	IV	Winterberry	3'-4'	Y	potted	5	5
<i>Vaccinium corymbosum</i>	VC	Highbush blueberry	3'-4'	Y	potted	6	6
<i>Swida racemosa</i>	SR	Gray dogwood	3'-4'	Y	potted	8	8
<i>Viburnum lentago</i>	VL	Nannyberry	3'-4'	Y	potted	4	4
<b>Totals:</b>						<b>34</b>	<b>34</b>

**Table 3. Herbs**

<u>Scientific Name</u>	<u>Common Name</u>	<u>Size</u>	<u>Hydro</u>			<u>Spacing</u>	<u>Mitigation Area</u>	<u>Total</u>
			<u>Zone</u>	<u>NWI*</u>				
<i>Asclepias incarnata</i>	Swamp milkweed	plug	B	OBL		1.5'OC	50	50
<i>Carex stricta</i>	Tussock sedge	plug	B	OBL		1.5'OC	50	50
<i>Onoclea sensibilis</i>	Sensitive fern	pot	B	FACW		1.5'OC	10	10
<i>Osmundastrum cinnamomeum</i>	Cinnamon fern	pot	B	FACW		1.5'OC	15	15
<b>Totals:</b>							<b>125</b>	<b>125</b>

\* NWI Status (National Wetland Inventory; National Wetland Plant List: Northcentral & Northeast)

**NOTES:**

**Hydrologic Zones: A: Saturated/Shallow Inundation; B: seasonally saturated/temporarily flooded; C: moderately well drained/moist**

1. Shaded species (NWI) were selected specifically to attract moths and butterflies
2. Preferably plant woody and herbaceous plantings between April 15 and June 15 of a given year, unless watering is proposed.
3. Coordinate plug order early in prior fall, so that flats of all species are planted (contract growing).
4. Use New England Wetmix from NEWP (New England Wetland Plants), South Hadley, MA, in areas between beds of herbaceous plugs.
5. No seeding or other plants in 3' diameter circle around each shrub, tree, and plug bed, mulched with bark mulch or shredded leaf litter.
6. Water frequently during first growing season; as necessary for establishment of plugs and many of the seedlings.
7. Monitoring will take place for 3-years following establishment of plantings.
8. Annual reporting to the Town of Coventry will be provided for the 3-year, post-implementation monitoring period.

**Table 4: Seed Mixes for Wetland Replication**

		Total Pounds Per Seed Mix	
<p><b>Zone B: Saturated within 6", may be flooded at times</b>  <b>Zone C: Transitional wetland/moist upland, occasionally saturated</b></p>		Wetland Mitigation Area	Totals
NEWP Seed Mixes (New England Wetland Plants, Inc.)	<u>Comments</u>	Zone	Totals
<p><i>NE Wetmix</i>  <b>1 lb/2500 sf</b></p>	<p><i>Created wetland/vernal pool edge  marsh - not in area of inundation</i></p>	B	1
<p><i>NE Conservation/Wildlife Mix</i>  <b>1 lb/1750 sf</b></p>	<p><i>Upper portion of wetland creation area  and moist uplands</i></p>	B, C	2
<b>Totals:</b>		<b>3</b>	<b>3</b>

**Notes:**

1. Mix 1:1 with filler (coarse sand, kitty litter) to help correctly divide seed packages and for even spreading.
2. Mixes contain seeds with a range of hydrologic tolerances; different species will thrive in different areas.
3. Mulch (do not seed) areas under and around plug & shrub clusters, to exclude weeds and hold moisture. (Coverage specified assumes area occupied by mulched woody plantings has been subtracted.)
4. A late fall seeding will require 20% more seed, because some seed will be lost to wash off and herbivory, but germination rates will actually be higher, due to the cold winter stratification of the seed.
5. The NE Conservation/Wildlife Mix will extend 20 to 30 feet upgradient of the Mitigation Area.

**Source:**

***New England Wetland Plants, Inc., 14 Pearl Lane, South Hadley, Massachusetts 01075; phone: 413-548-8000***