

EcoTec, Inc.
ENVIRONMENTAL CONSULTING SERVICES
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November 18, 2020

David Koonce, Agent
Lancaster Conservation Commission
Prescott Building
701 Main Street, Suite 4
Lancaster, MA 01523 via email (dkoonce@lancasterma.net)

Re: 97 Woodland Meadow Drive

Subject: Implementation of Proposed Restoration Measures: Status Report

Dear Mr. Koonce and Commission Members:

This letter-report summarizes the implementation of the wetland restoration measures proposed in my October 8, 2020 letter to the Commission submitted on behalf of Brian Deciero of 97 Woodland Meadow Drive. The work was implemented as authorized by the Commission's Enforcement Order. Pine Ridge Farm Landscaping of Boylston conducted the work under my direction.

Proposed Restoration Work Completed:

1. Wood chip removal: Where wood chips were present in the BVW, the chips were collected with a mini tracked excavator with a grading bucket (no teeth) and workers using rakes and shovels, and placed into a small dump truck for reuse off site. I inspected the removal area and it is my opinion that the removal was consistent with my specification. As proposed, some remnant wood chips remain, but in my opinion the removal was sufficient to expose the vast majority of the native wetland topsoil, and allow for growth of planted and remnant wetland vegetation, but not overly aggressive to the point that it would eliminate any remnant wetland vegetation that may re-sprout in the spring.
2. Planting: Plant stock was obtained from New England Wetland Plants, to ensure native species and cultivars. A copy of the plant stock invoice is attached. I personally supervised the layout of the proposed plants, to match the hydrology across the planting

area (e.g. winterberry were placed primarily in the lowest/ wettest portions). Attached are photographs of the area shortly before (plants in containers) and after planting. Note that many of the planted specimens are leafless due to autumn leaf drop. During my inspections I have observed scattered growth of native wetland herbaceous species, including sedges (Cyperaceae spp.) and skunk cabbage (*Symplocarpus foetidus*). It is my opinion that the native wetland hydrology of the affected Bordering Vegetated Wetland remains intact throughout the altered area;

3. Erosion Control: My evaluation of the site indicated that following several significant rain events since the subject clearing, there is no evidence of erosion beyond the work area into unaffected BVW. As previously described, the unmitigated roadway storm drain discharge has deposited sand and scoured the area directly below the concrete pipe discharge. Some stone was added and the scour appears to have stabilized, so that the mobilized soil remains localized to the low point within the cleared area. Therefore, as a field change, I recommended against the installation of the limited wattle described in my restoration protocol, to avoid the unnecessary placement of additional foreign matter into the wetland.
4. Proposed monitoring: It is proposed to provide monitoring with status reports to the Commission in the spring and fall for two years (apx May and September). Monitoring will include representative photographs, as well as a summary of plant vigor, percent cover, and hydrology within the restoration area.

I hope that this information is helpful. Please do not hesitate to contact me if you have any questions concerning this or other matters.

Sincerely,



Paul J. McManus, PWS
President

Enclosures

- Packing list from New England Wetland Plants
- Site photographs

C: Brian Deciero - owner

Packing List from New England Wetland Plants

WE HAVE MOVED! PLEASE NOTE OUR NEW ADDRESS.

NEW ENGLAND WETLAND PLANTS, INC
PO BOX 949
14 PEARL LANE
SOUTH HADLEY, MA 01075
PHONE: 413-548-8000 FAX: 413-549-4000
EMAIL: INFO@NEWP.COM

INVOICE # _____
DATE _____
DUE DATE _____
PAYMENT TERMS _____
BALANCE DUE _____

SHIP TO

BILL TO
PINE RIDGE FARM
GIGI STOWE
BOYLSTON, MA 01505

CUSTOMER PHONE 508-864-8829

LOCALLY PROPAGATED & GROWN

NEW ENGLAND PROVENANCE TREES, SHRUBS, & HERBACEOUS PLANTS

P.O. NO.	TITLE TRANSFER	ORDERED BY	SHIP DATE	SHIP VIA
	FCA NURSERY	GIGI STOWE	10/22/2020	CUST PICK-UP

QUANTITY	DESCRIPTION	PRICE
35	ACER RUBRUM, RED MAPLE, 3-4', #2 CNTR	
33	VACCINIUM CORYMBOSUM, HIGHBUSH BLUEBERRY, 2-3FT, #1	
33	CLETHRA ALNIFOLIA, SWEET PEPPERBUSH, 18-24", #1 POT	
33	VIBURNUM DENTATUM, NORTHERN ARROWWOOD, 2-3FT, #1	
33	ILEX VERTICILLATA, WINTERBERRY 3-4FT, #1	
34	SPIRAEA LATIFOLIA, MEADOWSWEET, 3-4FT, #1	
34	SPIRAEA TOMENTOSA, STEEPLEBUSH, 2-3FT, #1	
8	CORYLUS AMERICANA, AMERICAN HAZELNUT, 18-24", #1 POT	
9	SPIRAEA LATIFOLIA, MEADOWSWEET, 3-4FT, #1	
9	VACCINIUM CORYMBOSUM, HIGHBUSH BLUEBERRY, 2-3FT, #1	
9	VIBURNUM LENTAGO, NANNYBERRY, 3-4FT, #1	

OVERDUE INVOICES WILL BE ASSESSED A FINANCE CHARGE OF 18% PER ANNUM.

RECEIVER'S SIGNATURE _____ DATE _____

PRINT NAME _____ CHECK # _____

THANK YOU FOR CHOOSING NEW ENGLAND WETLAND PLANTS, INC TO BE YOUR SUPPLIER
OF LOCAL PROVENANCE NATIVE PLANTS, NATIVE SEED MIXES, AND EROSION CONTROL.

SUBTOTAL

SALES TAX

TOTAL

PAYMENTS/CREDITS

BALANCE DUE

Site Photographs: 97 Woodland Meadow Drive – dates as noted



Plants laid out for planting



Plants laid out for planting



Plants laid out for planting
Remaining pile of wood chips for removal



Plants laid out for planting

Site Photographs: 97 Woodland Meadow Drive – dates as noted



Typical Wood chip removal area after planting



Eastern portion of restoration area after planting



Skunk cabbage early growth



Central and western portion of restoration area after planting

Site Photographs: 97 Woodland Meadow Drive – dates as noted



West end of restoration area after planting



View east from west end of restoration area after planting