STATE OF MAINE DEPARTMENT OF AGRICULTURE, CONSERVATION AND FORESTRY BOARD OF PESTICIDES CONTROL 28 STATE HOUSE STATION AUGUSTA, MAINE 04333

Amanda E. Beal Commissioner

JANET T. MILLS GOVERNOR

May 6, 2025

Parterre Ecological Shana Hostetter 14 Braintree St. Portland, ME 04103

RE: Variance permit for CMR 01-026 Chapter 29, Parterre Ecological/Parterre Garden Services

Greetings,

The Board of Pesticides Control considered your application for a variance from Chapter 29 for 690 Seashore Avenue on Peaks Island. The variance is approved, provided that all products to be used are currently registered in the State of Maine or were registered at the time of purchase and that any application is made above the high-water line.

The Board authorizes the issuance of two-year permits for Chapter 29, therefore this permit is valid until December 31, 2026, as long as applications are consistent with the information provided on the variance request. Please notify the Board in advance of changes, particularly if you plan to use a different product from those listed.

Please bear in mind that your permit is based upon your company adhering to the precautions listed in Section X of your Chapter 29 variance request.

I will alert the Board at its next meeting that the variance permit has been issued. If you have any questions concerning this matter, please feel free to contact me at 287-2731.

Sincerely,

Alexander Pearsk

Alexander Peacock Director

ALEXANDER PEACOCK, DIRECTOR 90 Blossom Lane, Deering Building



PHONE: (207) 287-2731 THINKFIRSTSPRAYLAST.ORG

BOARD OF PESTICIDES CONTROL APPLICATION FOR VARIANCE PERMIT (Pursuant to Chapter 29, Section 6 of the Board's Regulations)

Shana Hostetter		(717)	587-5355			
Name		Telephone Number				
Parterre Ecolog	gical					
Company Name						
690 Seashore Ave	Peaks Island	ME	04108			
Address	City	State	Zip			
Shana Hostetter		CMA-637	71			
Master Applicator (if applicable)		License Nu	mber			
14 Braintree Street	Portland	ME	04103			
Address	City	State	Zip			

III. As part of your application, please send a revegetation plan and digital photos showing the target site and/or plants and the surrounding area, particularly showing proximity to wetlands and water bodies, to pesticides@maine.gov

IV. Area(s) where pesticide will be applied:

See attached Land Management Plan for more details. The invasive plant pressure is

high in intensity. Mostly Knotweeed, with some woody invasive pressure as well.

V. Pesticide(s) to be applied:(Including EPA Registration Number) Round Up Custom, 524-343 Garlon 3A, 62719-37

VI. Purpose of pesticide application:

To control invasive plant species and replant with native vegetation.

VII. Approximate dates of spray application:

September 2025- December 2027

VIII. Application Equipment:

Cut Stump Application (Buckthorn blaster), backpack sprayer, hand held foamer

IX. Standard(s) to be varied from:

Chapter 29, Section 6, Section A

 Method to ensure equivalent protection: When using the backpack sprayer we will be using large droplet sizes to minimize drift. We
will only apply herbicide when the wind is less than 15mph. Spray only when the ground is dry
and not saturated with water. Avoid spraying when forecasts show a threat of heavy rains. Do
not spray on rainy days and cease spray operations if rain is in the immediate forecast.

XI. Revegetation Plan (attach separately if necessary)

See attached Land Management Plan

Return completed form to: Board of Pesticides Control, 28 State House Station, Augusta, ME 04333-0028 OR E-mail to: pesticides@maine.gov

LAND MANAGEMENT PLAN

A NARRATIVE FOR INVASIVE MANAGEMENT & NATIVE PLANT RESTORATION



LANDSMAN PROPERTY • PEAKS ISLAND, PORTLAND, MAINE





A view of the Landsman residence and the vegetation behind the home. The orange vegetation shows a Knotweed monoculture that extends beyond the property boundary.

CONTENTS

4	Introduction
6	Existing Conditions: Invasive Plar
8	Invasive Plant Management Tech
10	Proposed Management per Inva
14	Management Calendar for Treat
15	Proposed Schedule for the Lands
16	Preliminary Planting Proposal by



LANDSMAN PROPERTY 690 SEASHORE AVENUE PEAKS ISLAND, PORTLAND, ME PAGE 2 OF 16

01/31/25



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Matthew Cunningham Landscape Design (MCLD)

PAGE 3 OF 16

PROJECT INTRODUCTION

This plan addresses proposed invasive management and contains a native restoration narrative at the Landsman property on Peaks Island, Portland, Maine. The oceanfront property sits on the East side of the Island spanning just over 0.5 acres in a residential area. The property abuts large natural areas to the West and Wharf Cove in the Atlantic Ocean to the East. As a monoculture of mature Knotweed from the western natural areas encroach on the Landsman property, little more than invasive and a few nonnative ornamental plants comprise the property's vegetation. With approval from the Department of Environmental Protection (DEP), removing invasive species will allow Matthew Cunningham Landscape Design (MCLD) team, specializing in native plant garden design, to manage the restoration planting.

The invasive population on-site and on the entirety of Peaks Island is mature and self-perpetuating. These invasive species outcompete native trees, shrubs, and wildflowers in Peaks Island's natural habitats, create monoculture stands devoid of biodiversity, create habitat for ticks, and reduce habitat for native wildlife. These species will inevitably displace the remnant native population of the Island and are considered a highly invasive threat to entire ecosystems unless decisive



Map the of residential parcels on Peaks Island including the Landsman property boundary and the large natural area parcels to the West.

action is taken. The invasive on the Landsman property are classified as "widespread" and "severely invasive" by the Maine Natural Areas Program (MNAP), which is within the Maine Department of Agriculture, Conservation, and Forestry.

Significant invasive plant pressure exists on the site of highly invasive and mature Knotweed, Asiatic Bittersweet, Shrub Honeysuckle, and Multiflora Rose. Additionally, the deep, matted root system of Knotweed poses a threat to the septic system on-site and has prompted the interest of the property owner to work collaboratively with abutters to help abate Knotweed arowth. Action to remedy the densely invaded property boundary on the western part of the site now could spare the rest of the property from invasion and allow MCLD to restore the property to a healthy and biodiverse ecosystem.

This plan identifies the invasive plants we propose to remove, describes each, and details best management practices for control and management. The plan also includes a narrative for proposed native restoration and specifying plant species. Finally, it provides a detailed maintenance calendar for all aspects of proposed management and ecological restoration over an extended timeline.

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LANDSMAN PROPERTY **690 SEASHORE AVENUE** PEAKS ISLAND, PORTLAND, ME PAGE 4 OF 16

01/31/25

PROJECT GOALS

The Landsman property is on the Eastern side of Peaks Island, Maine. The property abuts Wharf Cove in the Atlantic Ocean to the East, large natural areas to the West, and several residential properties to the North and South. Little more than invasive plant varieties and a few nonnative ornamental plants comprise the property's vegetation as the invasive species dominate the native ecosystems that are present. This Land Management Plan aims to present an inventory of the invasive species, share our Invasive Plant Management strategies, and propose native species to replace the removed invasive plants.

Native plant restoration will be managed by Matthew Cunningham Landscape Design (MCLD), a team specializing in native plant garden design.



The area of Knotweed that this plan proposes for invasive management and removal is highlighted in blue



An aerial view of the Landsman property shows the bright orange vegetation of a mature Knotweed monoculture encroaching from the West

LANDSMAN PROPERTY **690 SEASHORE AVENUE** PEAKS ISLAND, PORTLAND, ME PAGE 5 OF 16

EXISTING CONDITIONS: INVASIVE PLANT SPECIES

INVASIVE SPECIES PLANT KEY

BOTANICAL NAME Celastrus orbiculatus Lonicera morrowii Ligustrum vulgare

Fallopia japonica

Rosa multiflora

COMMON NAME Bittersweet Shrub Honeysuckle Privet Knotweed Multiflora Rose



(Above) A bramble of Celastrus orbiculatus, Bittersweet, at the front of the property.

(Below) Mature Lonicera morrowii Shrub Honeysuckle, along the foundation of the home.



(Above) Fallopia japonica, Knotweed, is encroaching on the property from the West.

(Below) Rosa multiflora, Multiflora Rose & Lonicera japonica, Shrub Honeysuckle are intertwined.



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LANDSMAN PROPERTY 690 SEASHORE AVENUE PEAKS ISLAND, PORTLAND, ME PAGE 6 OF 16

01/31/25



An aerial view of the Landsman residence. The orange vegetation shows a Knotweed monoculture that extends beyond the property boundary. The area that this plan proposes for invasive management and removal is highlighted in blue and includes Knotweed, Shrub Honeysuckle, and Bittersweet.





LANDSMAN PROPERTY 690 SEASHORE AVENUE PEAKS ISLAND, PORTLAND, ME PAGE 7 OF 16

INVASIVE PLANT MANAGEMENT TECHNIQUES

IMPORTANT NOTE ON HERBICIDE APPLICATIONS BY COASTLINE AREA

Because some of the areas we will treat with herbicide are adjacent to the coastline, every effort will be made to perform these applications safely. We will prioritize manual removal where possible. We will use cut and dab herbicide applications when working in sensitive areas. We will only work with herbicide during dry stretches of weather and on calm days to minimize drift. We will use wetland safe herbicides only (Garlon 3A and Roundup Custom).

FOLIAR SPRAY:

Directed foliar sprays are herbicide/water mixes targeting invasive plant foliage. A certified herbicide technician will apply using a backpack sprayerwith low pressure and away from the coastline, drift inhibitors, and a spray shield—to enhance precision and cover all leaves to the point of runoff. Ideally, a water-soluble dye should be incorporated into the solution to track application and alert the technician to any unwanted spray drift.



Foliar herbicide application by licensed technician

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All invasive plant species that have a base greater than 1" in caliper will be addressed with herbicide application. Invasive plants of this size usually have extensive fibrous root systems which provide beneficial soil stabilization and are best left in situ. Unfortunately, they also maintain the ability to resprout, which is why we propose a cut and dab method with Garlon 3A™ (a triclopyr-based herbicide) on individual cut stumps. Licensed Herbicide Applicators will complete all treatments.



Licensed applicators with required Personal Protective Equipment paint the stems of invasive species after cutting.

LANDSMAN PROPERTY **690 SEASHORE AVENUE**

PEAKS ISLAND, PORTLAND, ME

PAGE 8 OF 16

01/31/25

FOLIAR FOAM:

Cutting alone is not an effective tool for managing When foliar application is not an option (Knotweed Knotweed. However, cutting can be integral to managing in sensitive areas and/or mixed with desired plants) this plant, particularly when combined with follow-up or for smaller patches of Knotweed stem application herbicide application. An adequately timed cutting is an option. For large populations, the large stems will eliminate the tall canopy and simplify followare cut at 18 inches. The remaining stems are then up operations. For more extensive mature stands of treated between the first and second nodes with a Knotweed, stands should be cut in May, and foliar or 50% solution of glyphosate that is put into the hollow stem herbicide should be applied in late summer. The tube of the stem and its walls. This should be done for cutting in May causes the Knotweed to regrow to a consecutive 2-5 seasons. more manageable height in late summer. At this point, the leaves can be easily painted with a 6.0% Aquaneat (glyphosate) solution before the plant pulls its nutrients back into the roots in preparation for winter. Cutting later than June reduces your operational window to chemically treat knotweed, and waiting too late in the season can result in almost no regrowth.

After the Knotweed has been cut in early June, the plant will respond by utilizing stored carbohydrates, further reducing the plant's vigor. The herbicides used for a foliar application move through the plant. To control the rhizomes, the application needs to be made later in the season, when the movement of carbohydrates is back to the rhizomes for growth and storage.



Foliar herbicide application by licensed technician



CUT AND FILL:



Herbicide application by licensed technician

LANDSMAN PROPERTY **690 SEASHORE AVENUE** PEAKS ISLAND, PORTLAND, ME PAGE 9 OF 16

01/31/25

Foliar herbicide application by licensed technician

PROPOSED MANAGEMENT PER INVASIVE SPECIES ORIENTAL BITTERSWEET DESCRIPTION:

CELASTRUS ORBICULATUS





MANAGEMENT:

Small seedlings can be hand pulled, but bittersweet resprouts prolificate to form root fragments, so more aggressive measures must be taken on all specimens. For established plants, vines should be cut to the ground to reduce mass and treated with the cut-and-dab method. Bittersweet aggressively suckers after cutting, so it is essential to cut and treat during or after its flowering period (late June to December)



LANDSMAN PROPERTY **690 SEASHORE AVENUE** PEAKS ISLAND, PORTLAND, ME



Celastrus orbiculatus, Asiatic Bittersweet is a deciduous

climbing vine common in

areas of disturbance in our

New England forests. It has

glossy, rounded leaves that

toothed margins. The leaves

greenish flower clusters from

leaf axils that mature in fall

to produce high numbers of fruiting seed. The seed are

noticeably yellow, globular capsules that split open at

maturity to reveal red-orange fruiting seeds. Roots are also

Bittersweet spreads easily into

old fields. Most disturbed sites

managed that receive full sun

are susceptible. The vine can

forest edges, woodlands, unmanaged meadows and

that are not being actively

distinctly orange.

HABITAT:

turn yellow in the fall. The fruiting plants produce small

are alternate with finely

PAGE 10 OF 16

01/31/25

SHRUB HONEYSUCKLE LONICERA MORROWII





HABITAT:

Honeysuckles are relatively shadeintolerant and usually colonize forest edges, abandoned fields, and other open, upland habitats. Grazed meadows and disturbed woodlands are especially vulnerable. Woodlands and open meadows, especially those that have been grazed or otherwise disturbed and are left unmanaged are also highly susceptible. Morrow's Honeysuckle are highly adaptable and can grow in even challenging environments such as roadsides and wetland edges.





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DESCRIPTION:

Lonicera morrowii, Morrow's honeysuckles are upright, deciduous shrubs that typically have a multi-stem mounding appearance. Oval leaves are opposite along the stem with smooth edges (no teeth or lobes) and hairy on the underside. Mature stems are often hollow on the interior and peeling on the outer bark. In the spring pairs of fragrant, tubular flowers less than an inch long are borne along the stem in the leaf axils. The fruits are red to orange, and fleshy.



MANAGEMENT:

Honeysuckle management can combine mechanical mowing and manual hand pulling with cut and dab herbicide treatments. Small specimens may be removed manually as honeysuckle root systems are fairly shallow. Root resprouting can persist for a few years and several seasons of management may be required to fully control the population.

LANDSMAN PROPERTY **690 SEASHORE AVENUE** PEAKS ISLAND, PORTLAND, ME PAGE 11 OF 16

JAPANESE KNOTWEED

Fallopia japonica



HABITAT:

that forms dense monocultures on various site conditions, from roadsides to stream banks. Knotweed is a relative of buckwheat, smartweed, and the Noxious Weed mile-aminute vine. Japanese knotweed was introduced to the U.S. as ornamentals during the late 1800s. However, it has become an invasive plant in our natural areas due to its imposing height, dense growth habit, aggressive spread, and seeming indifference to control methods.

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LANDSMAN PROPERTY

690 SEASHORE AVENUE

PEAKS ISLAND, PORTLAND, ME



DESCRIPTION:

Knotweed, Fallopia japonica, is a tall-growing, hollow-stemmed, perennial plant that can grow to over 10 feet in height. Stems of Japanese knotweed are smooth, stout and swollen at joints where the leaf meets the stem. Although leaf size may vary, they are normally about 6 inches long by 3 to 4 inches wide on a mature plant, broadly oval to somewhat triangular and pointed at the tip. The greenish-white flowers occur as branched sprays in summer and are followed soon after by small winged fruits. Seeds are triangular, shiny, and very small, about 1/10 inch long.



MANAGEMENT:

Knotweed management can combine foliar spray and cut-and-fill herbicide treatments. Precisely timed cuttings of Knotweed increase the operational window to chemically treat. Either of these treatments should be done for consecutive 2-5 seasons.

01/31/25

PAGE 12 OF 16

MULTIFLORA ROSE Rosa multiflora

DESCRIPTION:

Rosa multiflora, Multiflora Rose is a shrub with arching canes and a mounding shape in the landscape. The leaves are divided into five to eleven sharply toothed leaflets. The base of each leaf stalk has a pair of fringed bracts, which is a key identifier of the plant from other wild roses. Beginning in early summer, clusters of showy white flowers appear. The flowers are followed by developing red fruit, or hips, during the summer that remain on the plant through the winter.







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HABITAT:

Multiflora Rose thrives in early successional habitat. The rose has a wide tolerance for various soil, moisture, and light conditions. It occurs in dense woods, along river banks and roadsides and in open unmanaged fields. It can form a dense understory that suppresses growth of native plant species. The seed is readily dispersed by birds, and the extended productivity of the fruit into winter months allows widespread distribution of the plant.



MANAGEMENT:

Manual methods of hand-pulling seedlings is effective. For more established shrubs, a combination of pruning to reduce mass followed by cut & dab treatments with a triclopyr-based herbicide is recommended. Persistent root infestations may require repeat cutting over several seasons. Rake any seeds present, bagging and disposing of correctly.

LANDSMAN PROPERTY **690 SEASHORE AVENUE** PEAKS ISLAND, PORTLAND, ME PAGE 13 OF 16

MANAGEMENT CALENDAR FOR TREATMENT & PLANTING

TASK	JAN	FEB	MAR	APR	мау	JUN	JUL	AUG	SEP	ост	NOV	DEC
Hand removal woody seedlings < 1" caliper												
Hand pulling herbaceous species												
Mechanical management of woody invasive												
Cut and dab herbicide on woody invasive												
Japanese Knotweed Cutback												
Japanese Knotweed Chemical Treatment												

PROPOSED MANAGEMENT AND MAINTENANCE SCHEDULE

LATE SPRING/ EARLY SUMMER 2025 (WITH DEP APPROVAL)

- Systematically remove woody invasive plants according to priority. »
- » Cut and remove all Japanese Knotweed

LATE SUMMER/FALL 2025

- » Treat Japanese Knotweed reprouts with herbicide (foliar treatment of spray or foam)
- Treat woody plant reprouts with herbicide (foliar treatment of spray or foam) »
- However, due to the intense nature of the Knotweed monoculture, we would recommend waiting until the following year to plant.

2026

» Continue the same pattern as the 2025 season.

2027

» Assess the effectiveness of the management in the past 2 years.

Optimal timing and efficiency

Not optimal but mostly effective



Possible, but not ideal

The timing of various containment and restoration strategies is critical to their success. Fortunately, the calender provides ample opportunity for action at any time of the year. Tasks should be performed by trained ecological technicians and licensed herbicide applicators. These recommendations for restoration take into consideration the long term health of the East Point Audubon Sanctuary. Once invasive plants have been managed in a particular area, the restoration of native species should begin.



LANDSMAN PROPERTY **690 SEASHORE AVENUE** PEAKS ISLAND, PORTLAND, ME PAGE 14 OF 26

01/31/25



If the invasive plant management schedule holds, it is possible to plant larger trees and shrubs into the disturbed areas in the late fall of 2025.

LANDSMAN PROPERTY **690 SEASHORE AVENUE** PEAKS ISLAND, PORTLAND, ME PAGE 15 OF 26

690 Seashore Ave, Peaks Island, Portland, ME

The proposed planting plan for the site will focus on enhancing local biodiversity by implementing primarily native trees, shrubs, and perennials that are well-adapted to the region's climate and soil conditions. These plants will provide various ecosystem services and promote soil health, structure, and water retention. By prioritizing native species, the proposed planting plan aims to create a sustainable and resilient landscape that requires less maintenance and reduces the need for irrigation and fertilization. Overall, this approach will contribute to the long-term ecological health of the site and promote positive environmental and aesthetic outcomes. Please refer to the subsequent list for specific information regarding suggested plant species and cultivars.

Trees	
Acer rubrum 'Red Sunset'	Red Sunset Red Maple
Amelanchier canadensis	Shadblow Serviceberry
llex opaca	American Holly
Juniperus virginana	Eastern Red Cedar
Picea abies	Norway Spruce
Thuja plicata 'Green Giant'	Green Giant Arborvitae
Shrubs	
Aronia arbutitolia 'Brilliantissima'	Red Chokeberry
Cephalanthus occidentalis	Buttonbush
Clethra alnitolia	Summersweet
Clethra alnitolia 'Hummingbird'	Hummingbird Summersweet
Comptonia peregrina	Sweettern
Fothergilla gardenii	Dwart Fothergilla
Hamamelis virginiana	Common Witchhazel
Hydrangea paniculata 'Tardiva'	Tardiva PeeGee Hydrangea
Hydranaea guercitolia 'Pee Wee'	Pee Wee Oakleat Hydranaea
llex alabra 'Shamrock'	Dwart Inkberry
Ilex verticillata 'Red Sprite'	Red Sprite Winterberry
Ilex verticillata 'Southern Gentleman'	Southern Gentleman Winterberry
luniperus communis	Common luniper
Myrica aale	Sweetaale
	Northern Bayberry
Prunus maritima	Beach Plum
Rhododendron arborescens	Sweet Azalea
Rhus gromatica 'Gro-Lo'	Ergarant Sumac
Rosa virginiana	Virginia Rose
Viburpum dentatum	Arrowwood Viburnum
Perennials	
Alchemilla mollis	Lady's Mantle
Amsonia hubrichtii	Bluestar
Anemone canadensis	Canada Anemone
Anemone x hybrida 'Honorine Jobert'	Honorine Jobert Japanese Anemone
Arctostaphylos uva-ursi	Bearberry
Astilbe 'Bridal Veil'	Bidal Veil Astilbe
Athyrium tilix-teming	Lady Fern
Carex pensylvanica	Oak Sedge
Dennstaedia punctiloba	Hay-Scented Fern
Echinacea purpurea 'Maanus'	Magnus Purple Conetlower
Ergarostis spectabilis	Purple Love Grass
Eupatorium dubium 'Baby Joe'	Baby Joe Pve Weed
Geranium 'Rozanne'	Rozanne Cranesbill
Nepeta x taassenii 'Walker's Low'	Walker's Low Catmint
Pennisetum alopecuroides 'Hameln'	Dwart Fountain Grass
Rudbeckia tulaida 'Goldsturm'	Goldsturm Black-Eved-Susan
Salvia 'May Night'	May Night Sage
Schizachyrium scoparium 'Carouse!'	Carousel Little Bluestem
Sporobolus heterolensis	Prairie Dronseed
Symphyotrichum novibelaji 'Wood's Light Blue'	Wood's Light Blue New York Aster
	TO OCA 3 LIGHT DIDE THEM TOTA ASIET