

**Green Acres Program
State House Commission Pre-Application
Local Parkland—Minor Disposal/diversion**

**ATTACHMENT III:
COMPENSATION PROPOSALS FOR MINOR DISPOSALS OR DIVERSIONS
OF PARKLAND**

For all compensation proposals, please submit the following information relative to the method or methods of compensation chosen, and check the box next to the applicable compensation category or categories:

Monetary Compensation

- Calculate the minimum compensation total as determined under *N.J.A.C. 7:36-26.5(a)1i, 2i, 4i* or *5*, as applicable
- Specify whether compensation will be remitted to Green Acres for deposit into the GSPT Fund or whether the applicant is requesting alternative approval under *N.J.A.C. 7:36-26.5(b)* to apply the compensation to a parkland acquisition or development project to be undertaken by the applicant and completed within six months of SHC approval of the application for disposal/diversion of parkland. If alternative approval is sought, please provide information about the parkland acquisition or development project as specified below.
- Include a resolution or other binding statement that meets the requirements of *N.J.A.C. 7:36-26.5(c)1* concerning deposit of the monetary compensation if the application is approved;
- If the application requests approval of a lease or use agreement, include a detailed description of how the applicant will utilize any payments, rentals or other consideration received for operating, maintenance or capital expenses related to its funded parkland or to its recreation program as a whole within a six month period following approval of the application. (*N.J.A.C. 7:36-26.5(c)4*)

Parkland Improvements

- Provide a detailed description of the type, cost, location and intended use of any proposed parkland improvements (*N.J.A.C. 7:36-26.5(c)2i*);
- Include drawings or plans of the parkland improvements (*N.J.A.C. 7:36-26.5(c)2ii*);
- Include a timetable or schedule for construction and confirmation that the portion of the project being funded by the compensation will be completed within six months of SHC approval of the disposal or diversion (*N.J.A.C. 7:36-26.5(b)* and *7:36-26.5(c)2iii*).

Replacement Land

- List block(s) and lot(s) of any proposed replacement land(s) (*N.J.A.C. 7:36-26.5(c)3iv*);
- Include the street address of the proposed replacement land(s), if available (*N.J.A.C. 7:36-26.5(c)3iii*);

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- Specify the size of the proposed replacement land(s) in acres (for replacement land(s) larger than one acre) or square feet (for replacement land(s) smaller than one acre) (*N.J.A.C. 7:36-26.5(c)3iii and iv*);
- Describe the proposed replacement land(s) by completing Section II of the Environmental Assessment, **Attachment I**, for each parcel (*N.J.A.C. 7:36-26.5(c)3i*);
- Describe the intended recreational and conservation use for the proposed replacement land(s) (*N.J.A.C. 7:36-26.5(c)3ii*);
- Provide information sufficient for the Department to verify that the proposed replacement lands are eligible as replacement under *N.J.A.C. 7:36-26.10(d)2*;
- Complete a preliminary assessment report, prepared in accordance with the Technical Requirements for Site Remediation, *N.J.A.C. 7:26E*, for each proposed replacement parcel (*N.J.A.C. 7:36-26.5(a)3i*, *N.J.A.C. 7:36-26.5(b)* and *N.J.A.C. 7:36-26.5(c)3*);
- Provide confirmation that the project will be completed within a six month period following approval of the application for disposal or diversion of parkland (*N.J.A.C. 7:36-26.5(b)*)

Tree Replacement

- If the proposed disposal/diversion requires the removal of any tree greater than 6 inch dbh or the clear cutting of greater than 0.50 acre of trees, include a proposal for compensation through monetary contribution or a tree replacement plan pursuant to *N.J.A.C. 7:36-26.5(c)5*; (*N.J.A.C. 7:36-26.5(a)6*)
- Provide confirmation that any proposed monetary compensation for tree removal will be transferred to the Department immediately after approval of the application for disposal or diversion of parkland or that a tree replacement plan will be implemented within a six month period following approval of the application. (*N.J.A.C. 7:36-26.5(b)*)

Notes:

- If monetary compensation is proposed, the Department will use the information in the compensation proposal and the value statement required under *N.J.A.C. 7:36-26.4(d)4* to determine the amount of monetary compensation due for the proposed disposal or diversion of parkland. (*N.J.A.C. 7:36-26.4(i)* and *N.J.A.C. 7:36-26.5(d)*)
- For applications involving an exchange of land, the Department will use the information in the compensation proposal to determine whether the properties involved in the swap are of reasonably equivalent size, market value and natural resource value. (*N.J.A.C. 7:36-26.5(a)3i*)

Attachment III - Route 4 Palisades Avenue & CSX Green Acres Compensation Proposal – Replacement Land

Block and Lot: Block 5608, Lot 10

Street Address: 210 Shepard Avenue. Teaneck, NJ 07666

Size of Parcel: 6.4 acres

Environmental Assessment (Section II of Attachment I):

NJDOT proposes to compensate for the diversions, per N.J.A.C. 7:36-26.5, via the purchase of a replacement parcel, Block 5608, Lot 10; 201 Shepard Avenue, in Teaneck, New Jersey (see attached Figure).

The replacement parcel is over 6 acres in size and is an undeveloped wooded lot bordered on all sides by medium-density residences and one church with a school serving grades Pre-K through 8. It lies northeast across Englewood Avenue from Argonne Park, a Green Acres encumbered township property. There are no wetlands or streams on the property. The US Fish and Wildlife Service IPaC identifies Tricolored Bat (*Perimyotis subflavus*, Proposed Endangered) and Monarch Butterfly (*Danaus plexippus*, Candidate) within the project area.

The Township of Teaneck Environmental Resource Inventory Update 2013 lists several species identified from the NJDEP Landscape Project within Teaneck Township; however, these species occur exclusively along waterways of which there are none within the project area. A review of the current Landscape Project data confirms no sensitive species on the replacement parcel. Therefore, no impacts are anticipated to any sensitive species.

Web Soil Surveys identifies four soil types on the replacement parcel: Dunellen loam, 3-8% slopes (DuoB), Dunellen-Urban land complex, 3-8% slopes (DuuB), Dunellen-Urban land complex, 8-15% slopes (DuuC), and Udorthents, wet substratum-Urban land complex (UdwuB). The proposed replacement parcel is not located in a geologic formation known to contain acid-producing soils.

Tree Replacement:

The replacement parcel will also serve to mitigate the tree impacts that would result from the diversions. Gracie Harrigan Consulting foresters performed inventories on both the diversion parcels and the proposed mitigation parcel in order to calculate basal area of trees located on each.

A tree inventory within the diversion areas took place on June 13, 2024 and resulted in a total of 70 trees being surveyed with a total basal area of 114 square feet (rounded up with % defect accounted for).

An inventory of trees on the proposed replacement parcel, Block 5608, Lot 10, took place on May 14, 2024 and resulted in assessing 354 trees with a basal area of 474 square feet.

The full inventory reports for each survey are attached to this proposal.

Conclusion Summary:

NJDOT is proposing to divert Green Acres encumbered parcels along the Route 4 corridor in order to perform structural, roadway, and drainage improvements. To compensate for the loss of both the land (0.32 acres) and trees (114 Square feet of basal area) within the diversions, NJDOT proposes Block 5608, Lot 10; 201 Shepard Avenue, in Teaneck, New Jersey as a replacement parcel for compensation.

The land value of the parcel is currently undergoing appraisal but is anticipated to more than compensate for the monetary value of the diversions. In addition, the replacement parcel will provide replacement trees that equal 474 square feet of basal area, which provides 360 square feet of basal more than is being proposed to be impacted on the diverted parcels.



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand) OpenStreetMap contributors, and the GIS User Community

Legend

 Mitigation Parcel Block: 5608, Lot: 10



1 inch = 200 feet



Rt 4 & Palisade Avenue
 Bridge Improvements
 Mitigation Parcel County Road Map

Township of Teaneck
 Bergen County, NJ

Route 4 & Palisade Avenue Bridge Improvement Tree Assessment 06/13/2024Prepared by Gracie & Harrigan Consulting Foresters, Inc
P.O. Box 492, Gladstone, NJ 07934

**

<u>Species</u>	<u>Tag #</u>	<u>D.B.H (in)</u>	<u>% Defect</u>	<u>Basal Area (sq.ft.)</u>	<u>BA % defect</u>	<u>Comments</u>
Crabapple	547	14	10%	1.068984	0.1068984	Decay
Crabapple	548	12	15%	0.785376	0.1178064	Decay
Crab apple	549	14.2	5%	1.09974456	0.054987228	Decay
Mulberry	550	8	5%	0.349056	0.0174528	Dead branches
Eastern red cedar	551	2	out			Not counted since under 6" D.B.H
Eastern red cedar	552	3	out			Not counted since under 6" D.B.H
Eastern red cedar	553	2	out			Not counted since under 6" D.B.H
Eastern red cedar	554	3	out			Not counted since under 6" D.B.H
Weeping cherry	555	13.8	15%	1.03865976	0.155798964	Girdling roots
Weeping cherry	556	9	20%	0.441774	0.0883548	Girdling roots
Mockernut hickory	557	28	5%	4.275936	0.2137968	Decay in branches
Little leaf linden	558	33	15%	5.939406	0.8909109	Damage from current construction
Little leaf linden	559	33.1	10%	5.97545694	0.597545694	Root damage decay in branches
American beech	561	45	25%	11.04435	2.7610875	Beech Leaf disease
Tulip poplar	562	36	5%	7.068384	0.3534192	Dead branches
Black oak	563	47.2	5%	12.15063936	0.607531968	Dead branches
Tulip poplar	564	51	25%	14.185854	3.5464635	Heart wood rot
London plane	567	36	30%	7.068384	2.1205152	Heart wood rot
Norway maple	571	5	out			Not counted since under 6" D.B.H
Black oak	572	8.8	5%	0.42235776	0.021117888	Dead branches
Norway maple	576	7		0.267246		
Little leaf linden	577	6.5	5%	0.2304315	0.011521575	Dead branches
Black locust	586	22	10%	2.639736	0.2639736	Dead limbs
Black cherry	590	6	5%	0.196344	0.0098172	Dead branches
Norway maple	804	14	5%	1.068984	0.0534492	Dead branches
Norway maple	806	8	5%	0.349056	0.0174528	Dead branches
Norway maple	807	18	5%	1.767096	0.0883548	Dead branches
Mulberry	808	10	15%	0.5454	0.08181	Decay
Mulberry	809	12	10%	0.785376	0.0785376	Decay
Black locust	810	10	10%	0.5454	0.05454	Dead limbs

Holly	811	4	out			Not counted since under 6" D.B.H
weeping cherry	812	10	5%	0.5454	0.02727	Dead branches
Norway maple	815	7	5%	0.267246	0.0133623	Dead branches
Norway maple	817	8	5%	0.349056	0.0174528	Dead branches
Norway maple	818	6	5%	0.196344	0.0098172	Dead branches
Elm	823	6		0.196344		
Norway maple	825	6	25%	0.196344	0.049086	Broken leader
Norway maple	829	10		0.5454		
Norway maple	830	7	5%	0.267246	0.1178064	Dead branches
Norway maple	834	10		0.5454		
Norway maple	837	5	out			Not counted since under 6" D.B.H
Norway maple	838	5	out			Not counted since under 6" D.B.H
Norway maple	839	9		0.441774		
Pin oak	840	28.8	5%	4.52376576	0.226188288	Dead branches
Norway maple	841	9	5%	0.441774	0.0220887	Dead branches
Norway maple	851	20	35%	2.1816	0.76356	Dead limbs
Norway maple	852	22	15%	2.639736	0.3959604	Dead branches/decay
Norway maple	853	34	5%	6.304824	0.3152412	Dead branches
Blue spruce	854	10		0.5454		
Crabapple	855	10	10%	0.5454	0.05454	Decay in branches
Norway maple	856	7		0.267246		
Red oak	857	36	15%	7.068384	1.0602576	Dead branches
spruce	858	16	20%	1.396224	0.2792448	In decline
Norway maple	868	20	15%	2.1816	0.32724	Decay in branches and trunk
Sweetgum	869	20	5%	2.1816	0.10908	Dead branches
Pin oak	870	28	10%	4.275936	0.4275936	Dead limbs
Norway Maple	871	18	5%	1.767096	0.0883548	Dead branches
Pin oak	872	24	5%	3.141504	0.1570752	Dead branches
Sweet cherry	873	10	20%	0.5454	0.10908	Most of crown defoliated
Acer negundo	874	8	5%	0.349056	0.0174528	Dead branches
Acer negundo	875	5	out			Not counted since under 6" D.B.H
Acer negundo	876	18	15%	1.767096	0.2650644	Decay in branches
Acer negundo	877	5	out			Not counted since under 6" D.B.H
Acer negundo	878	6	5%	0.196344	0.0098172	Dead branches

Black locust	879	16		1.396224		
Red maple	880	6	5%	0.196344	0.0098172	Dead branches
Norway maple	881	10	10%	0.5454	0.05454	Decay in branches/dead branches
Norway maple	882	7		0.267246		
Acer negundo	883	15	5%	1.22715	0.0613575	Dead branches
Norway maple	884	8	5%	0.349056	0.0174528	Dead branches

Total sum of Basal Area of Live Trees	131.1613916
Total sum of % Defect of Basal Area	17.31894521
Total Basal Area Minus the % Defect of Basal Area	113.8424464

**This list reflects the trees that will be removed due to the construction of Route 4 & Palisade Avenue Bridge Improvements Row Plan. Each tree has been tagged and identified with locations on the attached Route 4 & Palisade Avenue Bridge Project 2024 map. Due to the G.P.S. signal, more trees were tagged than fell into the specific area; if you run into any trees that fall into the easement area and are not included in this list but have a tag, please reach out, and I will add that specific tree. The above 70 trees, ten of which were eliminated due to their small size (less than 6 inches at D.B.H.), and any dead trees were not counted, making the total trees evaluated above 60 trees. The total basal area of each live tree was calculated along with the percent defect of the basal area. In total, the basal area comes out to a total of 131.16 sq.ft. and a 17.31 percent defect of basal area, leaving 113.84 sq. ft. of basal area that can be used for the calculations for the tree mitigation for this site.

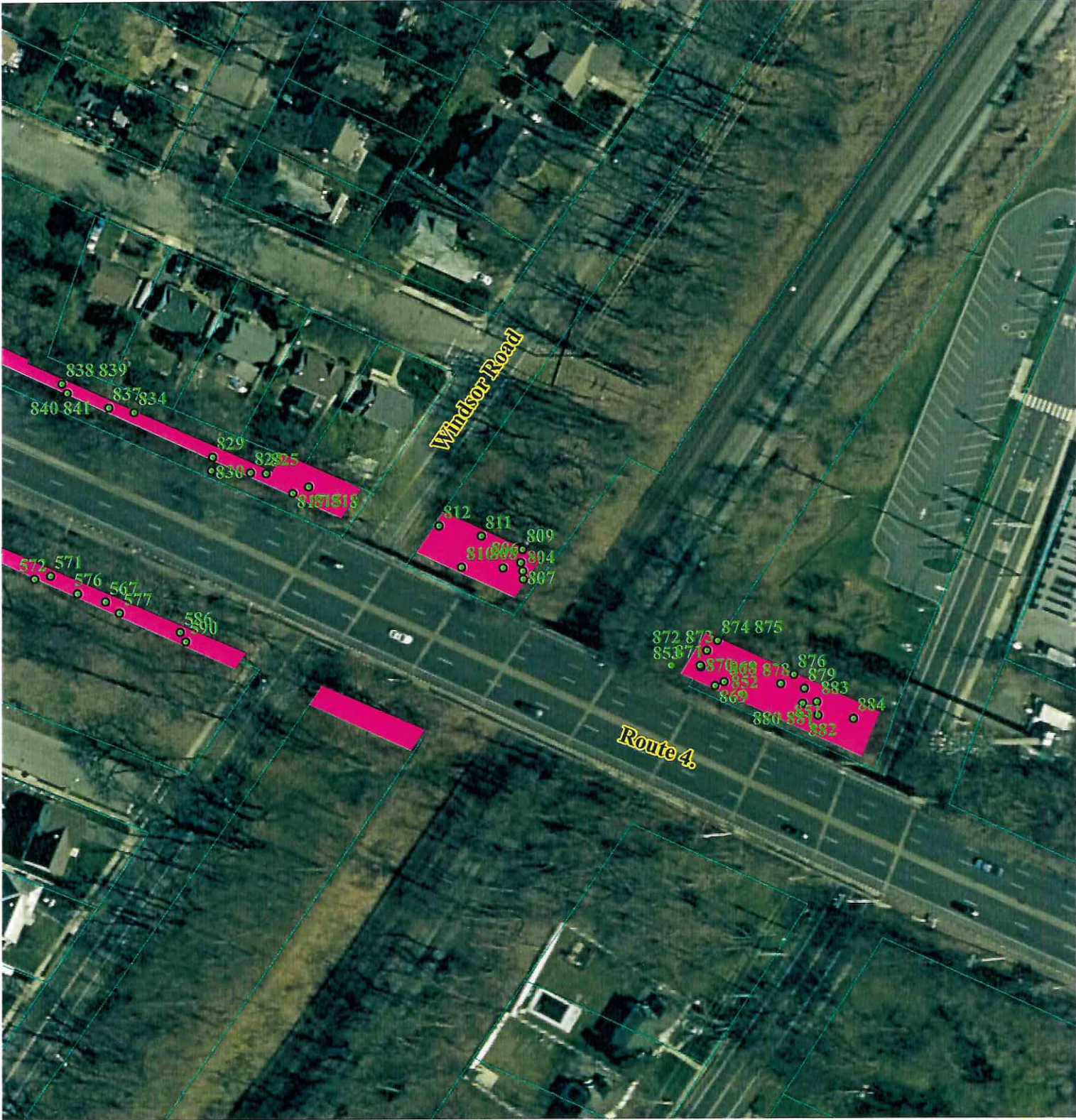
Route 4 & Palisade Avenue Bridge Project



1 inch = 100 feet

This map was developed using NJDEP GIS digital data, but this secondary product has not been verified by NJDEP and is not state-authorized.

Route 4 & Palisade Avenue Bridge Project



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1 inch = 100 feet

*Providing Forest
Management Services
For Over 40 Years.*



210 Main Street PO Box 492 Gladstone, NJ 07934
T. 908.781.6711

Heather J. Gracie-Petty, CF
Christina L. Harrigan, CF
Steven W. Kalleser, CF
Alexander Kelchner, CF

May 15, 2024

Darren B. Stanker
WSP USA- Rt -4 Bridge over Palisades Ave and CSX
(WSP# US0022862)
200 Lenox Drive
Lawrenceville, NJ 08648

Darren,

On May 14th, Gracie and Harrigan conducted a forest inventory assessment for the 6.68 acre woodland tract located in Teaneck Township and identified Block 5608, Lot 10. A total of 10 sample points were inventoried utilizing the US Forest Service NED-3 Inventory Program. Inventory samples are referenced on the enclosed Property Map as point numbers 373 through 382. Each sample point is marked with a GPS waypoint, numbered metal tag, flagging and paint for field identification. Both the forest inventory data and Property Map are attached for reference. A summary of our findings is included here within.

The forest inventory shows two data sets. The first data set (Stand 1 Inventory) shows an inventory of “acceptable” quality trees on the property and the second data set (Stand 1 Inventory “unacceptable”) shows an inventory for trees that are dead, dying or in a state of decline and should not be included in the final tree assessment.

In the overall assessment, Stand 1 shows an average of 53 trees and 71 square feet of basal area per acre and Stand 1-unacceptable shows an average of 16 trees and 20 square feet of basal area per acre. In addition to the tree stocking figures, the data reveals other information about the forest including species composition, tree diameter distribution and wood volumes that may not be relevant at this time. Based on 6.68 acres, the total number of trees and basal area both acceptable and unacceptable trees would equate to 354 trees and 474 square feet of basal area, and 107 trees and 134 square feet of basal area, respectively.

Please let me know if additional information is needed at this time.

Sincerely,



Heather Gracie, CF
President

PROPERTY MAP



Tree Survey - Rt.4

TOWNSHIP OF TEANECK
BERGEN COUNTY

BLOCK 5608, LOT 10
6.68 approx. acres



Property location: 40.900308, -73.993180

This map was developed using NJDEP GIS digital data, but this secondary product has not been verified by NJDEP and is not state-authorized.

1 inch = 150 feet

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Identification Data

stand 1, Inventory, 2024

Identification and Location

Variable	Value
Stand Name	stand 1
Date Inventory was Taken	5/14/2024

Site Measures

Variable	Value
Stand Area (ac.)	1.0
Plot Cluster Count (count)	1
Canopy Closure (%)	40
Trees Per Unit Area (stems/ac.)	52.79
Number of Plot Size Classes (count)	1
Basal Area (sq.ft./ac.)	71.0
Relative Density (%)	40
Shrub layer cover (% cover)	0.0
Ground layer cover (% cover)	0.0

Stand Characteristics

Variable	Value
Land Cover Type	Forested wetland
Forest Type	southern bottomland hardwoods
Site Index Species	red maple
Site Index	70
Size Class	large sawtimber
Year of Origin (year)	1899

Features

Variable	Value
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Percent Area Riparian (% cover)	0.0
Percent Area Wetland (% cover)	0.0
Streams	absent
Percent Open Plots (% plots)	0
Contains a Wetland	absent
Contains a Riparian	absent
Old Growth	no
Rare Plant Species Present	absent
Exotic Plant Species Present	present

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Species List

stand 1, Inventory, 2024

Species	Latin	Overstory	Understory	Transect
red maple	<i>Acer rubrum</i>	X		
American beech	<i>Fagus grandifolia</i>	X		
sweetgum	<i>Liquidambar styraciflua</i>	X		
tuliptree	<i>Liriodendron tulipifera</i>	X		
blackgum	<i>Nyssa sylvatica</i>	X		
northern red oak	<i>Quercus rubra</i>	X		
white ash	<i>Fraxinus americana</i>	X		
Norway maple	<i>Acer platanoides</i>	X		
silver maple	<i>Acer saccharinum</i>	X		
pin oak	<i>Quercus palustris</i>	X		
swamp white oak	<i>Quercus bicolor</i>	X		
elm	<i>Ulmus</i>	X		
boxelder	<i>Acer negundo</i>	X		
Counts		13	0	0

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User defined vegetation tables

stand 1, Inventory, 2024

Species common name X Dbh Table for Stems/area (stems/ac.)

Description: The cell values are 'Stems Per Unit Area' (stems per acre). Display 2 places after the decimal point. The values come from overstory observations (alive and dead, Crop, AGS and UGS) and understory observations (alive and dead, Crop, AGS and UGS). The table rows are 'DBH', sorted in ascending order. The row footings are row sum. The table columns are 'Species (Common Name)', sorted by the sum of the cell values (largest to smallest). The column footings are column sum.

dbh	red maple	Norway maple	boxelder	sweetgum	silver maple	northern red oak	elm	blackgum	white ash	swamp white oak	American beech	tuliptree	pin oak	row sum
<1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.0-3.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.0-5.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.0-7.0	0.00	10.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.19
7.0-9.0	2.86	0.00	2.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.73
9.0-11.0	0.00	0.00	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83
11.0-13.0	1.27	2.55	1.27	0.00	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00	0.00	6.37
13.0-15.0	1.87	0.00	0.94	0.00	1.87	0.94	0.00	0.00	0.00	0.94	0.00	0.00	0.00	6.55
15.0-17.0	5.01	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.72	0.00	0.72	0.00	0.00	7.16
17.0-19.0	3.96	0.57	0.00	1.13	0.00	0.00	1.13	0.00	0.57	0.00	0.00	0.00	0.00	7.36
19.0-21.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.0-23.0	0.38	0.38	0.00	1.14	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.38	0.00	2.65
23.0-25.0	0.00	0.00	0.32	0.95	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.91
25.0-27.0	0.27	0.00	0.00	0.00	0.00	0.27	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.81
27.0-29.0	0.23	0.00	0.00	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.94
29.0-31.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31.0-33.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33.0-35.0	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
35.0-	0.14	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28

37.0														
37.0-39.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25
39.0-41.0	0.00	0.00	0.11	0.11	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.34
<=41	0.00	0.00	0.00	0.10	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
column sum	16.17	13.68	7.34	3.68	2.56	2.06	1.85	1.54	1.40	0.94	0.72	0.61	0.25	52.79

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Timber Tables

stand 1, Inventory, 2024

Only observations that are greater than or equal to 1.0, and whose species growth form is "Tree" are used. Dead observations are not included when calculating values in this report.

There are no tree observations in any of the understory plots. Understory tables, and combined tables can not be generated.

Composition

Overstory only														
	All species	red maple (<i>Acer rubrum</i>)	sweetgum (<i>Liquidambar styraciflua</i>)	Norway maple (<i>Acer platanooides</i>)	boxelder (<i>Acer negundo</i>)	northern red oak (<i>Quercus rubra</i>)	silver maple (<i>Acer saccharinum</i>)	elm (<i>Ulmus</i>)	white ash (<i>Fraxinus americana</i>)	blackgum (<i>Nyssa sylvatica</i>)	tuliptree (<i>Liriodendron tulipifera</i>)	pin oak (<i>Quercus palustris</i>)	swamp white oak (<i>Quercus bicolor</i>)	Ar be (Fr gr)
Basal area (sq.ft./ac.)	71.0	23.0	11.0	6.0	6.0	6.0	5.0	3.0	3.0	2.0	2.0	2.0	2.0	1.0
Percent of stand basal area (%)	100.0	32.4	15.5	8.5	8.5	8.5	7.0	4.2	4.2	2.8	2.8	2.8	2.8	1.4
Stems/area (stems/ac.)	52.8	16.2	3.7	13.7	7.3	2.1	2.6	1.8	1.4	1.5	0.6	0.3	0.9	

Diameters

Merchantable Medial DBH and Merchantable Quadratic DBH only include observations where DBH is greater than 5.5 inches

Overstory only													
	All species	red maple (<i>Acer rubrum</i>)	sweetgum (<i>Liquidambar styraciflua</i>)	Norway maple (<i>Acer platanooides</i>)	boxelder (<i>Acer negundo</i>)	northern red oak (<i>Quercus rubra</i>)	silver maple (<i>Acer saccharinum</i>)	elm (<i>Ulmus</i>)	white ash (<i>Fraxinus americana</i>)	blackgum (<i>Nyssa sylvatica</i>)	tuliptree (<i>Liriodendron tulipifera</i>)	pin oak (<i>Quercus palustris</i>)	swamp white oak (<i>Quercus bicolor</i>)
Medial DBH (in.)	21.5	18.8	25.8	12.7	18.0	31.3	23.2	17.3	24.7	19.0	25.0	38.0	14.0
Merchantable Medial DBH (in.)	21.5	18.8	25.8	12.7	18.0	31.3	23.2	17.3	24.7	19.0	25.0	38.0	14.0
Quadratic Mean DBH (in.)	15.7	16.2	23.4	9.0	12.2	23.1	18.9	17.3	19.8	15.4	24.5	38.0	14.0
Merchantable Quadratic DBH (in.)	15.7	16.2	23.4	9.0	12.2	23.1	18.9	17.3	19.8	15.4	24.5	38.0	14.0
Mean DBH (in.)	14.1	15.4	22.8	8.1	11.2	21.2	17.7	17.2	18.8	14.5	24.3	38.0	14.0

Structure

Overstory only														
	All species	red maple (<i>Acer rubrum</i>)	sweetgum (<i>Liquidambar styraciflua</i>)	Norway maple (<i>Acer platanooides</i>)	boxelder (<i>Acer negundo</i>)	northern red oak (<i>Quercus rubra</i>)	silver maple (<i>Acer saccharinum</i>)	elm (<i>Ulmus</i>)	white ash (<i>Fraxinus americana</i>)	blackgum (<i>Nyssa sylvatica</i>)	tuliptree (<i>Liriodendron tulipifera</i>)	pin oak (<i>Quercus palustris</i>)	swamp white oak (<i>Quercus bicolor</i>)	Americ beech (<i>Fagus grandifolia</i>)
Q Factor	1.11	1.14	1.12	1.24	1.10	1.06	1.13	0.80	1.08	1.12	1.08	0.00	0.00	

Calculations used one inch dbh size classes.

Relative Density

Overstory only

	All species	red maple (<i>Acer rubrum</i>)	sweetgum (<i>Liquidambar styraciflua</i>)	Norway maple (<i>Acer platanoides</i>)	boxelder (<i>Acer negundo</i>)	northern red oak (<i>Quercus rubra</i>)	silver maple (<i>Acer saccharinum</i>)	elm (<i>Ulmus</i>)	white ash (<i>Fraxinus americana</i>)	blackgum (<i>Nyssa sylvatica</i>)	tuliptree (<i>Liriodendron tulipifera</i>)	pin oak (<i>Quercus palustris</i>)	swamp white oak (<i>Quercus bicolor</i>)	American beech (<i>Fagus grandifolia</i>)
Relative density (%/ac.)	39.6	12.2	5.2	3.9	3.5	5.1	2.5	1.6	0.9	1.1	0.6	1.4	0.8	
Percent of stand (%)	100.0	31.0	13.1	9.9	8.9	12.8	6.3	4.0	2.3	2.7	1.4	3.6	2.0	

Volumes

The boardfoot volumes were calculated using the 'Scrivani-Wiant' equation with the 'International 1/4 inch' log rule.

Overstory only

	All species	red maple (<i>Acer rubrum</i>)	sweetgum (<i>Liquidambar styraciflua</i>)	Norway maple (<i>Acer platanoides</i>)	boxelder (<i>Acer negundo</i>)	northern red oak (<i>Quercus rubra</i>)	silver maple (<i>Acer saccharinum</i>)	elm (<i>Ulmus</i>)	white ash (<i>Fraxinus americana</i>)	blackgum (<i>Nyssa sylvatica</i>)	tuliptree (<i>Liriodendron tulipifera</i>)	pin oak (<i>Quercus palustris</i>)	swamp white oak (<i>Quercus bicolor</i>)	American beech (<i>Fagus grandifolia</i>)
Gross sawtimber volume (bd.ft.)	3,640	0	1,311	0	0	665	0	321	463	194	292	315	79	
Net sawtimber volume (bd.ft.)	3,640	0	1,311	0	0	665	0	321	463	194	292	315	79	
Gross pulpwood volume (cords)	18	8	2	2	2	1	2	0	0	0	0	0	0	0
Net pulpwood volume (cords)	14	6	1	1	2	1	1	0	0	0	0	0	0	0
Gross total volume (cords)	24	8	4	2	2	2	2	1	1	1	1	1	0	0
Net total volume (cords)	20	6	3	1	2	2	1	1	1	1	1	1	0	0

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Identification Data

stand 1 unacceptable, Inventory, 2024

Identification and Location

Variable	Value
Stand Name	stand 1 unacceptable
Date Inventory was Taken	5/14/2024

Site Measures

Variable	Value
Stand Area (ac.)	1.0
Plot Cluster Count (count)	1
Canopy Closure (%)	10
Trees Per Unit Area (stems/ac.)	15.78
Number of Plot Size Classes (count)	1
Basal Area (sq.ft./ac.)	20.0
Relative Density (%)	10
Shrub layer cover (% cover)	0.0
Ground layer cover (% cover)	0.0

Stand Characteristics

Variable	Value
Land Cover Type	Forested wetland
Forest Type	southern bottomland hardwoods
Site Index Species	red maple
Site Index	60
Size Class	large sawtimber
Year of Origin (year)	1924

Features

Variable	Value
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Percent Area Riparian (% cover)	0.0
Percent Area Wetland (% cover)	0.0
Streams	absent
Percent Open Plots (% plots)	100
Contains a Wetland	absent
Contains a Riparian	absent
Old Growth	no
Rare Plant Species Present	absent
Exotic Plant Species Present	absent

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Species List

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Species	Latin	Overstory	Understory	Transect
red maple	<i>Acer rubrum</i>	X		
sweetgum	<i>Liquidambar styraciflua</i>	X		
white ash	<i>Fraxinus americana</i>	X		
silver maple	<i>Acer saccharinum</i>	X		
boxelder	<i>Acer negundo</i>	X		
Counts		5	0	0

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User defined vegetation tables

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Species common name X Dbh Table for Stems/area (stems/ac.)

Description: The cell values are 'Stems Per Unit Area' (stems per acre). Display 2 places after the decimal point. The values come from overstory observations (alive and dead, Crop, AGS and UGS) and understory observations (alive and dead, Crop, AGS and UGS). The table rows are 'DBH', sorted in ascending order. The row footings are row sum. The table columns are 'Species (Common Name)', sorted by the sum of the cell values (largest to smallest). The column footings are column sum.

dbh	red maple	white ash	boxelder	silver maple	sweetgum	row sum
<1	0.00	0.00	0.00	0.00	0.00	0.00
1.0-3.0	0.00	0.00	0.00	0.00	0.00	0.00
3.0-5.0	0.00	0.00	0.00	0.00	0.00	0.00
5.0-7.0	0.00	0.00	0.00	0.00	0.00	0.00
7.0-9.0	2.86	0.00	0.00	0.00	0.00	2.86
9.0-11.0	0.00	1.83	0.00	0.00	0.00	1.83
11.0-13.0	1.27	0.00	0.00	0.00	0.00	1.27
13.0-15.0	2.81	0.00	1.87	0.00	0.00	4.68
15.0-17.0	0.72	0.00	0.00	0.00	0.00	0.72
17.0-19.0	1.70	0.57	0.00	0.57	0.00	2.83
19.0-21.0	0.00	0.46	0.00	0.00	0.00	0.46
21.0-23.0	0.38	0.00	0.00	0.00	0.00	0.38
23.0-25.0	0.00	0.00	0.00	0.00	0.32	0.32
25.0-27.0	0.00	0.00	0.00	0.00	0.00	0.00
27.0-29.0	0.00	0.00	0.00	0.00	0.00	0.00
29.0-31.0	0.00	0.00	0.00	0.00	0.00	0.00
31.0-33.0	0.00	0.00	0.00	0.00	0.00	0.00
33.0-35.0	0.00	0.16	0.00	0.00	0.00	0.16
35.0-37.0	0.00	0.14	0.00	0.00	0.00	0.14
37.0-39.0	0.00	0.13	0.00	0.00	0.00	0.13
column sum	9.74	3.28	1.87	0.57	0.32	15.78

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Timber Tables

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Only observations that are greater than or equal to 1.0, and whose species growth form is "Tree" are used. Dead observations are not included when calculating values in this report.

There are no tree observations in any of the understory plots. Understory tables, and combined tables can not be generated.

Composition

Overstory only

	All species	red maple (<i>Acer rubrum</i>)	white ash (<i>Fraxinus americana</i>)	boxelder (<i>Acer negundo</i>)	silver maple (<i>Acer saccharinum</i>)	sweetgum (<i>Liquidambar styraciflua</i>)
Basal area (sq.ft./ac.)	20.0	10.0	6.0	2.0	1.0	1.0
Percent of stand basal area (%)	100.0	50.0	30.0	10.0	5.0	5.0
Stems/area (stems/ac.)	15.8	9.7	3.3	1.9	0.6	0.3

Diameters

Merchantable Medial DBH and Merchantable Quadratic DBH only include observations where DBH is greater than 5.5 inches

Overstory only

	All species	red maple (<i>Acer rubrum</i>)	white ash (<i>Fraxinus americana</i>)	boxelder (<i>Acer negundo</i>)	silver maple (<i>Acer saccharinum</i>)	sweetgum (<i>Liquidambar styraciflua</i>)
Medial DBH (in.)	19.0	15.4	26.0	14.0	18.0	24.0
Merchantable Medial DBH (in.)	19.0	15.4	26.0	14.0	18.0	24.0
Quadratic Mean DBH (in.)	15.2	13.7	18.3	14.0	18.0	24.0
Merchantable Quadratic DBH (in.)	15.2	13.7	18.3	14.0	18.0	24.0
Mean DBH (in.)	14.3	13.1	16.1	14.0	18.0	24.0

Structure

Overstory only

	All species	red maple (<i>Acer rubrum</i>)	white ash (<i>Fraxinus americana</i>)	boxelder (<i>Acer negundo</i>)	silver maple (<i>Acer saccharinum</i>)	sweetgum (<i>Liquidambar styraciflua</i>)
Q Factor	1.12	1.13	1.09	0.00	0.00	0.00

Calculations used one inch dbh size classes.

Relative Density

Overstory only

	All species	red maple (<i>Acer rubrum</i>)	white ash (<i>Fraxinus americana</i>)	boxelder (<i>Acer negundo</i>)	silver maple (<i>Acer saccharinum</i>)	sweetgum (<i>Liquidambar styraciflua</i>)
Relative density (%/ac.)	9.7	5.7	1.9	1.2	0.5	0.5
Percent of stand (%)	100.0	58.7	19.2	11.9	5.4	4.9

Volumes

The boardfoot volumes were calculated using the 'Scrivani-Wiant' equation with the 'International 1/4 inch' log rule.

Overstory only

	All species	red maple (<i>Acer rubrum</i>)	white ash (<i>Fraxinus americana</i>)	boxelder (<i>Acer negundo</i>)	silver maple (<i>Acer saccharinum</i>)	sweetgum (<i>Liquidambar styraciflua</i>)
Gross sawtimber volume (bd.ft.)	0	0	0	0	0	0
Net sawtimber volume (bd.ft.)	0	0	0	0	0	0
Gross pulpwood volume (cords)	4	3	0	1	0	0
Net pulpwood volume (cords)	3	3	0	1	0	0
Gross total volume (cords)	4	3	0	1	0	0
Net total volume (cords)	3	3	0	1	0	0