

## **APPENDIX T: MARYLAND REFORESTATION LAW MITIGATION SITE SEARCH REPORT AND ADDENDUM #1**



# MARYLAND REFORESTATION LAW MITIGATION SITE SEARCH REPORT

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U.S. Department of Transportation  
**Federal Highway Administration**

and



MARYLAND DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY ADMINISTRATION





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## 1 EXECUTIVE SUMMARY

The I-495 & I-270 Managed Lanes Study (MLS) conducted by the Federal Highway Administration (FHWA) as the Lead Federal Agency, and the Maryland Department of Transportation State Highway Administration (MDOT SHA) as the Local Project Sponsor, identifies potential transportation improvements to portions of the I-495 and I-270 corridors in Montgomery and Prince George's County, Maryland, and Fairfax County, Virginia (**Figure 1-1**). The MLS identified six Build Alternatives as potential transportation improvements in the Draft Environmental Impact Statement (DEIS), and each Alternative would result in unavoidable impacts to forests if constructed. Contracts proposing impacts to forests in Maryland will require review and approval from the Maryland Department of Natural Resources (DNR) in accordance with the Maryland Reforestation Law (MD Natural Resources Code § 5-103). This Maryland Reforestation Law Mitigation Site Search Report summarizes existing forest resources in the project corridor, anticipated impacts, and avoidance and minimization requirements; Maryland Reforestation Law and mitigation requirements; and the MLS reforestation mitigation site search approach and results.

In Maryland, forest impacts associated with the DEIS Build Alternatives and off-site environmental mitigation total approximately 1,500 acres and occur in the Washington Metropolitan (021402) and Patuxent River (021311) MDE 6-Digit watersheds. Forest impact estimates will be refined as forest stand assessments are conducted, and additional impact avoidance and minimization measures are implemented during future design phases to reduce forest impacts to the maximum extent practicable.

The Maryland Reforestation Law requires state-funded highway project applicants that impact one acre or more of forest to provide 1:1 mitigation according to a hierarchy. The hierarchy expresses a preference for on-site planting within the project corridor, followed by off-site planting on public land within the affected county and watershed, off-site planting on public land within the affected county or watersheds, purchase of credits from approved forest mitigation banks within the affected county or watersheds, and payment into the Reforestation Fund. Mitigation must occur within two years or three growing seasons of the completion of project construction.

The MDOT SHA site search approach included outreach to 65 public land owners within the affected counties and watersheds to identify potential planting opportunities, as well as a review of MDOT and Maryland Department of Planning (MDP) excess properties to identify off-site planting and forest retention opportunities. A total of 239 potential mitigation sites were reviewed, and 79 recommended sites were identified on six public partner properties and MDOT excess lands that will provide approximately 352 acres of credit, including 295 acres of reforestation and 114 acres (57 credit acres) of retention. Per Maryland Reforestation Law, a majority of the remaining mitigation needed could be fulfilled through purchase of credits from approved forest mitigation banks, as there are currently 1,063 credit acres available for purchase within the affected counties and watersheds and approximately 79 credit acres available within the affected watersheds outside of the affected counties. Based on this site search, there are currently 1,494 acres of credit available for MLS Reforestation Law mitigation, though available acreage will change based on refinement of the recommended off-site mitigation sites during design and availability of forest mitigation bank credits at the time of construction.

Figure 1-1: MLS Corridor





## 2 INTRODUCTION

The Federal Highway Administration (FHWA), as the Lead Federal Agency, and the Maryland Department of Transportation State Highway Administration (MDOT SHA), as the Local Project Sponsor, are preparing an Environmental Impact Statement (EIS) in accordance with the National Environmental Policy Act (NEPA) for the I-495 & I-270 Managed Lanes Study (MLS). The purpose of the MLS is to develop a travel demand management solution that addresses congestion and improves trip reliability on I-495 and I-270 within the Study limits and enhances existing and planned multi-modal mobility and connectivity (**Figure 1-1**). Efforts have been made throughout the planning process to avoid and minimize impacts to forests to the greatest extent practicable, while still achieving the goals of the MLS. Despite these efforts, impacts to forests are unavoidable due to the extensive forest cover adjacent to the existing roadway.

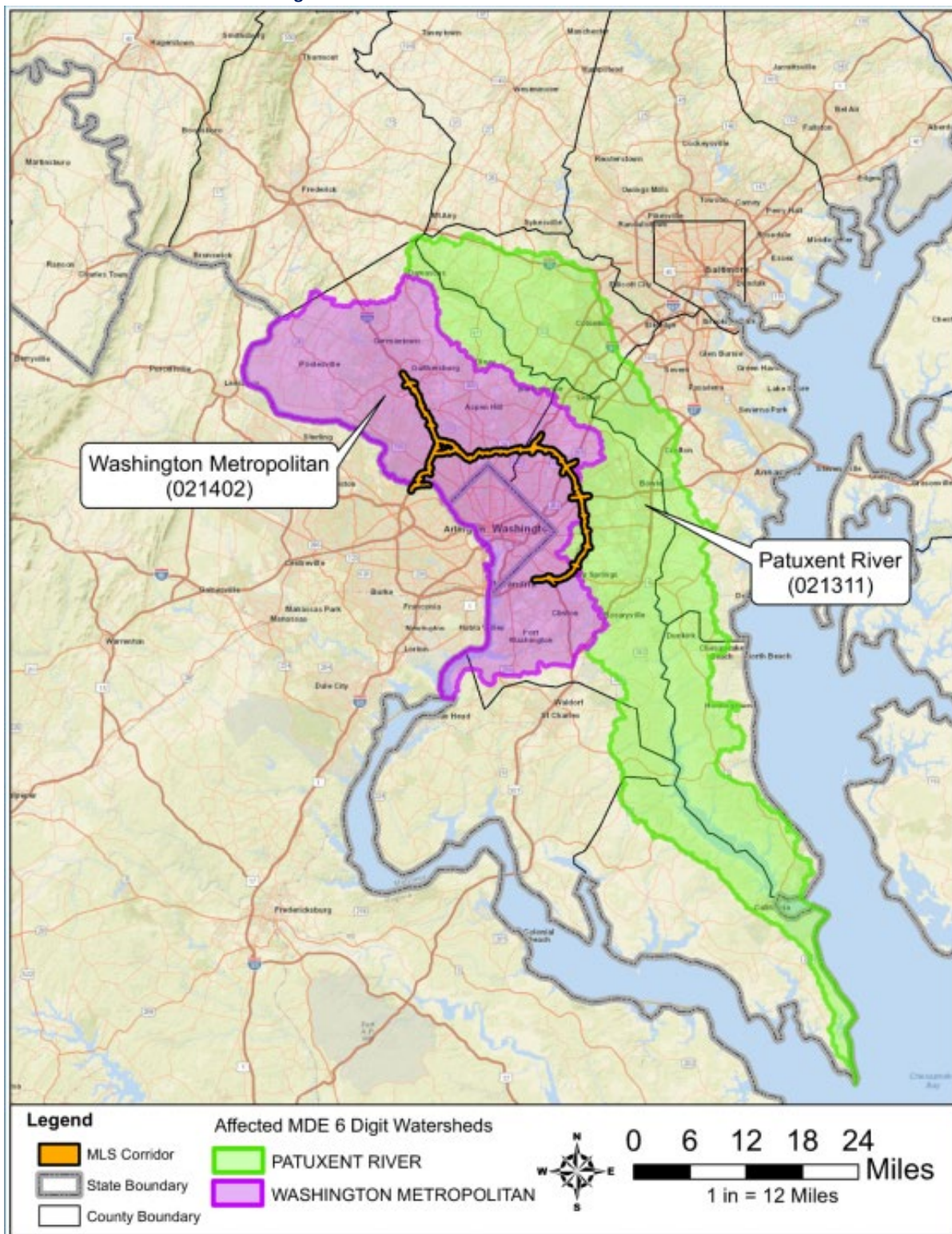
As part of the MLS, six DEIS Build Alternatives (Alternatives 8, 9, 9M, 10, 13B, and 13C) are proposed and were presented in the DEIS. All of the DEIS Build Alternatives would result in unavoidable impacts to forest as defined by the DNR. For further information on DEIS Build Alternatives see Chapter two of the DEIS, the MLS *Alternatives Technical Report* (ATR), and the MLS *Natural Resources Technical Report* (NRTR). The affected counties in Maryland include Montgomery and Prince George's and the affected watersheds include the Washington Metropolitan Watershed (021402) and the Patuxent River Watershed (021311) (**Figure 2-1**).

As a state funded highway project with over one acre of forest impact, the project, including off-site environmental mitigation, will be reviewed by DNR and unavoidable impacts to forest will be mitigated according to the requirements of the Maryland Reforestation Law (MD Natural Resources Code § 5-103). Specific mitigation requirements for impacts to existing Forest Conservation Easements, permitted Reforestation Areas (ICC, TMDL, etc.), State Parks, County Parks, and National Park Service lands are discussed in further detail within the *NRTR* and will be developed in coordination with the appropriate regulatory agency (e.g. DNR, Maryland-National Capital Park and Planning Commission Montgomery & Prince George's, MDOT SHA Water Programs, NPS, etc.)

The purpose of this Maryland Reforestation Law Mitigation Site Search Report is to present the anticipated forest impacts associated with the MLS; the Maryland Reforestation Law requirements for impact avoidance and minimization as well as mitigation; and the MLS forest mitigation site search methodology and results. The report concludes with a discussion of the recommended approach for Maryland Reforestation Law compliance, including anticipated impact avoidance and minimization; off-site reforestation and retention; purchase of credits from approved forest mitigation banks; and potential payment into the Reforestation Fund.



Figure 2-1: MLS Affected Counties and Watersheds





## 3 FOREST IMPACTS

### 3.1 Existing Forest Canopy

Construction of any of the DEIS Build Alternatives for the I-495 & I-270 MLS would involve disturbance of vegetated areas including forests within the project limits of disturbance (LOD), due to clearing and grading of land needed for construction of highway travel lanes, highway interchanges, ramps, and service roads; construction of noise barriers; and construction of required stormwater management (SWM) best management practices facilities (BMPs). Forest is a subset of tree canopy and is defined in the Code of Maryland Regulations (COMAR, 2019) as, “a biological community dominated by trees and other woody plants covering a land area of 1 acre or larger. It includes an area that has been cut but not cleared (MD Natural Resources Code §5-103).” Forest stand delineations were not conducted during the NEPA stage of the MLS. However, information regarding natural resources including vegetation and terrestrial habitat within the corridor study boundary is provided in the *NRTR*. Larger forested areas within the corridor study boundary are found on parkland properties and within stream valleys, with smaller areas of mostly disturbed vegetation occurring adjacent to the existing I-495 and I-270 roadway and in residential and commercial areas.

### 3.2 Impact Determination

An estimated 1,500 acres of forest in Maryland will be impacted by the construction of the proposed improvements and off-site environmental mitigation associated with the MLS. Forest impact estimates were determined using the tree canopy land cover class from the 1m resolution dataset developed by the Chesapeake Conservancy’s Conservation Innovation Center as part of the Chesapeake Bay High-Resolution Land Cover Project. The tree canopy dataset includes areas that do not meet the definition of forest, such as hedgerows or shade trees in residential areas. Forest stand assessments will be conducted during the design phase to determine the extent of forest in the LOD and refine forest impact calculations.

## 4 REFORESTATION LAW

The Maryland Reforestation Law regulates forest impacts associated with state-funded highway construction projects and their associated environmental mitigation sites that impact over one acre of forest, requiring avoidance and minimization of forest impacts to the extent practicable and acre-for-acre mitigation for unavoidable forest impacts. After avoidance and minimization efforts have been completed and one or more acres of forest clearing is still required, forest mitigation must occur according to the following hierarchy, exhausting feasible opportunities at each level before moving to subsequent levels:

1. On-site or within the project right-of-way;
2. On public land within the affected county and watershed;
3. On public land within the affected county or watershed or through use of credits from a forest mitigation bank within the affected county and watershed;
4. Use of credits from a forest mitigation bank in the affected county or watershed; and
5. Payment into the Reforestation Fund at ten cents per square foot or \$4,356 per acre for the remaining impact area.



Forest mitigation banking for compliance with the Maryland Reforestation Law must be conducted in accordance with the Maryland Forest Conservation Act with all forest mitigation banks protected and conserved in perpetuity (Forest Conservation Act [FCA]; MD Natural Resources Code Ann. §5-1601-1613). An email from DNR Forest Service to the MLS mitigation team on April 19, 2019 confirmed the use of mitigation banks is permitted under NRA 5-103 using the same mitigation ratios as FCA projects (refer to Appendix D). The mitigation ratio applied to off-site forest mitigation banks depends on the type of mitigation, with a 1:1 ratio for reforestation sites (one acre of credit for every acre of forest planted) and a 1:2 ratio for off-site retention of existing forest (one acre of credit for every two acres of forest protected).

Forest impacts must be replaced on an acre-for-acre or one-to-one basis on public lands, within two years or three growing seasons of project completion (DNR). DNR has requested that all proposed MLS planting opportunities on DNR parkland be planted within five years of the first MLS contract Reforestation Law approval.

## 5 PUBLIC LAND SITE SEARCH METHODOLOGY

MDOT SHA searched for potential off-site mitigation opportunities on public lands within the affected counties and watersheds by contacting other public landowners to identify reforestation opportunities and reviewing reforestation and retention opportunities on MDOT and Maryland Department of Planning (MDP) excess lands. Field reviews were conducted to evaluate mitigation sites that met minimum site review criteria.

### 5.1 Public Landowner Outreach

MDOT SHA sought partnerships with public landowners in the affected counties and watersheds to identify potential off-site planting opportunities. Public landowner outreach involved coordination to identify public landowners with reforestation mitigation opportunities for potential partnerships and field reviews of sites that met the site search criteria.

A list of federal, state, and local public landowners with open land in the affected counties and/or watersheds was compiled based on GIS data to identify potential public partners for MLS reforestation mitigation. Contact information for potential public partners was compiled from internet searches and previous MDOT SHA project mitigation partnerships. Public agencies were contacted via email and/or phone to inquire about potential planting opportunities on tracts five acres or larger, or multiple planting locations that totaled at least five acres on their property that could be used for MLS mitigation.

### 5.2 MDOT and MDP Excess Lands Reviews

A desktop review was conducted of MDOT and MDP excess lands within the affected counties and/or watersheds to identify off-site opportunities for reforestation and forest retention. A minimum site size threshold was established for this review to ensure sites would provide at least 1 acre of credit based on the 1:1 mitigation credit ratio for planting sites and 1:2 credit ratio for retention sites. Sites with at least 1 acre of plantable area were considered as potential reforestation sites. Sites on MDOT owned properties



with at least 2 acres of unencumbered forest (i.e., without existing easements or other restrictions) were considered potential forest retention sites.

Sites that met the size and location criteria were reviewed using ArcGIS and available open source data including Google maps and street view imagery. GIS data layers reviewed included DNR and National Wetlands Inventory (NWI) wetlands and waterway data, DNR Wetlands of Special State Concern (WSSC), Federal Management Administration (FEMA) 100-Year Floodplain data, and potential Forest Interior Dwelling Species (FIDS) habitat data. Sites were prioritized for field review according to planting and retention credit potential and suitable sites were added to the mitigation site database for field review.

### 5.3 Field Reviews

Field reviews were conducted on potential mitigation sites on public partner and MDOT owned properties. During the field reviews, data was collected on: access, presence of potentially regulated wetland/waterway resources, invasive species and potential planting or retention conflicts such as utilities, or evidence of existing FCEs. At potential forest retention sites, data was collected on the successional stage of the existing forest. The level of site preparation was noted for potential reforestation sites. Wetland delineations and forest stand assessments were not conducted at any of the potential mitigation sites and will be completed during future design stages. Public partner requests and future site development plans were noted in the site database for potential reforestation sites. The site status for suitable, field reviewed sites was set to “Keep”; the site status for rejected sites was set to “Drop”. Following final site selection, a map documenting field and desktop review notes, total proposed planting/forest retention acreage and credits, and any other pertinent site information was prepared for each proposed site.

## 6 RESULTS OF PUBLIC LAND SITE SEARCH

### 6.1 Evaluated Mitigation Sites

A total of 239 sites were reviewed during the mitigation site search process, including 115 sites on public partner properties and 124 sites on MDOT SHA and MDP excess lands. As part of the public landowner outreach effort, 65 potential public partners were identified and contacted, including eleven federal partners, one state partner, and 53 local agencies. Six of the public landowners that were contacted identified potential planting opportunities, including four federal partners (NASA Goddard, USDA Beltsville Agricultural Research Center, USDA George Washington Carver Center (GWCC), and USFWS Patuxent Research Refuge), one state partner (DNR), and one local partner (M-NCPPC Montgomery). See Appendix A for tables with detailed site information on all Recommended Forest Mitigation Sites and Dropped Forest Mitigation Sites, and Appendix B for site maps and photos of field reviewed sites. A summary of public partner coordination is provided in Appendix C; documentation of all public partner coordination including meeting minutes and comments from public partners are provided in Appendix D.

Evaluated public partner sites were dropped for a variety of reasons including site conditions (e.g., extensive cover by non-native invasive species requiring significant site preparation and maintenance) and conflicting public partner priorities or commitments. USDA GWCC staff identified eight potentially viable planting sites, but a final commitment on planting the sites cannot be provided until mid-to-late





2021, when plans for the campus renovation project are advanced further in the design process. The viable planting sites identified during coordination with USDA GWCC are included as recommended mitigation sites, but additional coordination will be needed in the future to confirm viability. See correspondence with USDA GWCC in Appendix D. DNR provided planting opportunities for evaluation at a number of state parks within the affected counties and watersheds including Patuxent River State Park, Seneca Creek State Park, Greenwell State Park, Rosaryville State Park, and the Wood Property. The Wood Property is located adjacent to Rosaryville State Park and is currently in the process of being acquired by DNR, so a virtual meeting was held via MS Teams with DNR Park Service in lieu of field visits, since the property is not yet owned by DNR. DNR also offered a significant planting opportunity at Newtowne Neck State Park located in the adjacent Lower Potomac River watershed, and will require approval of a variance by DNR to allow planting of these sites outside of the affected counties and watersheds for MLS Maryland Reforestation Law mitigation credit. See correspondence with DNR in Appendix D.

Meetings with both M-NCPPC Prince George's and local municipalities in Prince George's County were held to identify potential planting opportunities on M-NCPPC properties in Prince George's County. No opportunities were identified on M-NCPPC property in Prince George's County due to the urban nature of the county and limitations of future planning projects throughout the county. M-NCPPC Prince George's County staff inquired about the use of shade tree or street tree plantings to meet MLS Maryland Reforestation Law mitigation requirements. An email from DNR-Forest Service staff on June 26, 2020 indicated that Reforestation Law requires forest mitigation for forest loss, and that shade tree or street tree planting could not be conducted to meet Reforestation Law mitigation requirements. See correspondence with M-NCPPC Prince George's and email from DNR-Forest Service in Appendix D.

Evaluated MDOT and MDP excess lands sites were primarily dropped due to site availability, potential credit available, or site conditions (e.g., condition of existing forest on site). Most mitigation opportunities reviewed on excess lands involved preservation of existing forest.

## 6.2 Recommended Off-Site Mitigation Opportunities

Recommended off-site mitigation opportunities were identified on 79 sites that have the potential to provide 352.57 acres of credit, including 295.27 acres of reforestation on public partner properties and 114.58 acres (57.29 credit acres) of forest retention on MDOT SHA excess lands. Credit acres on off-site mitigation sites assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retained). All recommended mitigation opportunities will need to be refined during future design stages to confirm site viability based on coordination with the public landowner and to conduct detailed site investigations (i.e., wetland delineation and forest stand assessments) to determine final mitigation potential.

Maryland Park Service Project Information Forms (PIF) were submitted to DNR for review of recommended planting opportunities on DNR park properties. DNR provided comments on each PIF application submitted, requesting additional information regarding MDOT SHA's proposed site preparations, tree species, planting techniques, and maintenance practices. DNR also clarified that all proposed mitigation planting sites will have to be vetted according to their new mitigation policy before any sites are granted approval. M-NCPPC Montgomery County also provided a memorandum documenting guidance for use of parkland properties to meet state forest mitigation requirements. M-NCPPC Montgomery County clarified that any proposed mitigation on their properties can only address



MLS construction impacts on their properties. The comments received from DNR and M-NCPPC Montgomery County are included in Appendix D.

A summary of the credit provided by the recommended off-site mitigation opportunities in the various affected counties and watersheds is provided in **Table 6.2-1**. A summary of the recommended mitigation sites, organized by public partner, property, and acreage of anticipated mitigation credit per site is provided in **Table 6.2-2**.

**6.2-1: Summary of Recommended Off-Site Mitigation Credit Acres by County and Watershed**

COUNTY	WATERSHED						TOTAL
	Washington Metropolitan		Patuxent River		Lower Potomac River		
	Planting Credit Acres	Retention Credit Acres	Planting Credit Acres	Retention Credit Acres	Planting Credit Acres	Retention Credit Acres	
Montgomery	11.28	9.18	0.00	0.00	0.00	0.00	20.46
Prince George's	15.52	17.05	140.38	6.13	0.00	0.00	179.08
Non-Affected Counties (Anne Arundel, Howard, and St. Mary's)	0.00	0.00	51.10	24.93	77.00	0.00	153.03
TOTAL	26.80	26.23	191.48	31.06	77.00	0.00	
Total Credit Acres	53.03		222.54		77.00		352.57

6.2-2: Summary of Recommended Off-Site Mitigation Sites by Public Partner &amp; Property

Public Partner	Property	Number of Selected Sites	Site Acreage	Credit Acres
<b>Recommended Planting Sites</b>				
National Aviation and Space Administration (NASA)	Goddard Space and Flight Center	2	3.62	3.62
U.S. Department of Agriculture (USDA)	Beltsville Agricultural Research Center	3	6.10	6.10
	George Washington Carver Center	8	5.80	5.80
U.S. Fish and Wildlife Service (USFWS)	Patuxent Research Refuge	13	63.84	63.84
Maryland Department of Natural Resources (DNR)	Patuxent River State Park	1	15.56	15.56
	Seneca Creek State Park	1	5.90	5.90
	Rosaryville State Park	8	39.71	39.71
	Wood Property <sup>1</sup>	8	64.72	64.72
	Greenwell State Park	2	7.65	7.65
	Newtowne Neck State Park <sup>2</sup>	13	77.00	77.00
Maryland National Capital Park and Planning Commission, Montgomery County (M-NCPPC MO)	Rock Creek SVU 4 & SVU 5	2	1.39	1.39
	Olney Recreational Park	1	1.20	1.20
	Northwest Branch SVU 5	2	1.59	1.59
	Rock Creek SVU 2	1	1.21	1.21
<b>Total</b>	<b>All Proposed Planting Sites</b>	<b>65</b>	<b>295.27</b>	<b>295.27</b>
<b>Proposed Retention Sites</b>				
Maryland Department of Transportation State Highway Administration (MDOT SHA)	Excess Lands	14	114.58	57.29
<b>Total</b>	<b>All Proposed Retention Sites</b>	<b>14</b>	<b>114.58</b>	<b>57.29</b>
<b>All Proposed Sites</b>				
<b>TOTAL</b>	<b>Proposed Planting &amp; Retention Sites</b>	<b>79</b>	<b>409.85</b>	<b>352.57</b>

<sup>1</sup> Assuming DNR purchases the Wood Property before the MLS project construction.

<sup>2</sup> A variance is needed from DNR to allow mitigation in an adjacent watershed for available planting sites at Newtowne Neck State Park

### 6.3 Recommended Approach for Maryland Reforestation Law Compliance

It is expected that the estimated 1,500 acres of forest impact will be reduced during future design stages as forest stand assessments are completed, and avoidance and minimization efforts may reduce the overall mitigation requirement. As the first step in the mitigation hierarchy, opportunities for on-site reforestation within the MLS corridor will be identified during future design stages. In addition to the off-site mitigation on public lands identified in this site search, forest impacts may be mitigated by purchasing credits from approved forest mitigation banks in the affected counties and/or watersheds. A total of 1,063.4 credit acres are currently available for purchase within the affected counties and watersheds according to credit summaries available online for Montgomery and Prince George's Counties, and 78.80

credit acres are currently available for purchase within the affected watersheds outside of the affected counties, based on coordination with Department of Planning offices in Charles, Anne Arundel, St. Mary's, and Calvert Counties. Available forest mitigation credit acres are subject to change, but are likely to fulfill a significant portion of the remaining mitigation need. Any remaining mitigation required may be fulfilled through payment into the Reforestation Fund, as approved by DNR. A summary of the currently recommended Maryland Reforestation Law compliance approach for the MLS is provided in **Table 6.3-1** below.

**Table 6.3-1: Currently Recommended MLS Maryland Reforestation Law Mitigation Compliance Approach**

<b>Credit Type</b>	<b>Location</b>	<b>Credit Totals</b>
Avoidance and Minimization	TBD	TBD
On-site Mitigation	TBD	TBD
Off-site Mitigation	Recommended Sites	352.57
Forest Mitigation Banks	Montgomery County	87.60
	Prince George's County	975.80
	Howard County	78.80
	Charles County	TBD <sup>1</sup>
	Anne Arundel County	TBD <sup>2</sup>
	St. Mary's County	N/A <sup>3</sup>
	Calvert County	TBD <sup>4</sup>
Reforestation Fund	Project	TBD
<b>Estimated Total Required Credits</b>	<b>Project</b>	<b>1,500</b>
<b>Total Identified Credits</b>	<b>Project</b>	<b>1,494.77</b>
<b>Estimated Credit Deficit</b>	<b>Project</b>	<b>5.23</b>

<sup>1</sup>Bank credits may be available in the Patuxent River Watershed. Follow up with Charles County Dept. of Planning and Growth Management is required. Information regarding available credits was not provided to the MLS team after several requests in September 2020.

<sup>2</sup>Bank credits may be available in the Patuxent River Watershed outside of the CBCA. Follow up with the Anne Arundel County Dept. of Planning and Zoning is required. Information regarding available credits was not provided to the MLS team after several requests in September 2020.

<sup>3</sup>No forest mitigation banking programs exist in St. Mary's County as of September 2020.

<sup>4</sup>There are no bank credits available in Calvert County as of September 2020.

## 7 CONCLUSION

The I-495 & I-270 MLS aims to provide transportation improvements to portions of the I-495 and I-270 corridors in Montgomery and Prince George's County, Maryland, and Fairfax County, Virginia. Each Build Alternative that was reviewed would result in approximately 1,500 acres of forest impact in Maryland, within in the Washington Metropolitan (021402) and Patuxent River (021311) MDE 6-Digit watersheds, necessitating project review and approval by MD DNR in accordance with the Maryland Reforestation Law. The forest impact estimate will be refined during later stages of design, when forest stand assessments are conducted and impact avoidance and minimization efforts progress. Any unavoidable



impacts to forest will be mitigated according to the hierarchy outlined in the Maryland Reforestation Law within two years or three growing seasons of the completion of project construction.

A mitigation site search was conducted to identify potential off-site mitigation opportunities on public lands through a review of MDOT excess lands and outreach to potential public partners with property in the affected counties and watersheds. Nearly 240 off-site mitigation opportunities were reviewed on public lands in the affected counties and watersheds, resulting in 79 recommended off-site mitigation sites that may provide approximately 352 acres of credit. Proposed mitigation sites that are approved by DNR will be refined during future design stages as more detailed investigations are completed, including wetland delineation and forest stand assessments. Proposed forest retention sites on MDOT property that are approved by DNR will go through the process of forest mitigation bank establishment and will be protected in perpetuity in accordance with the standard process established in the FCA. Existing approved forest mitigation bank credits may fulfill a greater part of the remaining mitigation need, as a total of 1,063 acres of forest mitigation bank credits are currently available for purchase within the affected counties and watersheds and 79 acres of forest mitigation bank credit are currently available in the affected watersheds outside of the affected counties, though available bank credits will likely change prior to construction of the MLS improvements. Any remaining mitigation required may be addressed via payment into the Reforestation Fund at ten cents per square foot of forest impact (\$4,356 per acre), as approved by DNR.



## 8 REFERENCES

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## APPENDIX A: RECOMMENDED AND DROPPED FOREST MITIGATION SITE TABLES



RECOMMENDED FOREST MITIGATION SITES



Site ID	Property Name	Property Owner	County	Watershed Name	Retention Acreage	Planting Acreage	Credit Acres	Overall Site Comments
Recommended Planting Sites								
BARC-02	Beltsville Agricultural Research Center	USDA	Prince George's	Washington Metropolitan	0.00	2.71	2.71	Easily accessible, maintained field.
BARC-04	Beltsville Agricultural Research Center	USDA	Prince George's	Washington Metropolitan	0.00	1.50	1.50	Easily accessible, maintained field. Scattered trees observed.
BARC-07	Beltsville Agricultural Research Center	USDA	Prince George's	Washington Metropolitan	0.00	1.89	1.89	Potentially available after BARC completes EA and demolishes buildings.
DNR-01	Patuxent State Park	DNR	Howard	Patuxent River	0.00	15.56	15.56	Old air field donated to DNR. Clear & plant the 1.42 acre invasive bradford pear stand within the site.
DNR-02	Seneca Creek State Park	DNR	Montgomery	Washington Metropolitan	0.00	5.90	5.90	Preserve existing native trees, clear invasives as needed. Minor herbaceous invasive species observed. Adjacent to historic structure.
DNR-08	Rosaryville State Park	DNR	Prince George's	Patuxent River	0.00	5.13	5.13	Easily accessible, maintained grass field.
DNR-09	Rosaryville State Park	DNR	Prince George's	Patuxent River	0.00	4.84	4.84	Easily accessible, maintained grass field.
DNR-10	Rosaryville State Park	DNR	Prince George's	Patuxent River	0.00	3.37	3.37	Easily accessible, maintained grass field.
DNR-11	Rosaryville State Park	DNR	Prince George's	Patuxent River	0.00	1.07	1.07	Easily accessible, maintained grass field.
DNR-12	Rosaryville State Park	DNR	Prince George's	Patuxent River	0.00	7.53	7.53	Easily accessible, maintained grass field.
DNR-13	Rosaryville State Park	DNR	Prince George's	Patuxent River	0.00	12.35	12.35	Easily accessible, maintained grass field.
DNR-14	Rosaryville State Park	DNR	Prince George's	Patuxent River	0.00	3.30	3.30	Easily accessible, maintained grass field. Potential wet swale/basin located in the north central portion of the site.
DNR-15	Rosaryville State Park	DNR	Prince George's	Patuxent River	0.00	2.12	2.12	Easily accessible, maintained grass field.
DNR-16	Wood Property	Wood William C. Et Al, DNR	Prince George's	Patuxent River	0.00	3.55	3.55	Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.
DNR-17	Wood Property	Wood William C. Et Al, DNR	Prince George's	Patuxent River	0.00	20.33	20.33	Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.
DNR-18	Wood Property	Wood William C. Et Al, DNR	Prince George's	Patuxent River	0.00	4.12	4.12	Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.
DNR-19	Wood Property	Wood William C. Et Al, DNR	Prince George's	Patuxent River	0.00	11.00	11.00	Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.
DNR-20	Wood Property	Wood William C. Et Al, DNR	Prince George's	Patuxent River	0.00	3.27	3.27	Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.
DNR-21	Wood Property	Wood William C. Et Al, DNR	Prince George's	Patuxent River	0.00	7.72	7.72	Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.
DNR-22	Wood Property	Wood William C. Et Al, DNR	Prince George's	Patuxent River	0.00	4.76	4.76	Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.
DNR-23	Wood Property	Wood William C. Et Al, DNR	Prince George's	Patuxent River	0.00	9.97	9.97	Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.
DNR-24	Greenwell State Park	DNR	St. Mary's	Patuxent River	0.00	1.02	1.02	Maintain 12 foot wide grass access path between planting sites
DNR-25	Greenwell State Park	DNR	St. Mary's	Patuxent River	0.00	6.63	6.63	Maintain 12 foot wide grass access path between planting sites. Preserve native trees in natural regeneration area.
DNR-26	Newtowne Neck State Park	DNR	St. Mary's	Lower Potomac	0.00	1.47	1.47	Variance needed from DNR to allow planting proposed in 150 ft. buffer from edge of existing ag. field boundary.
DNR-27	Newtowne Neck State Park	DNR	St. Mary's	Lower Potomac	0.00	1.56	1.56	Variance needed from DNR to allow planting proposed in 150 ft. buffer from edge of existing ag. field boundary.
DNR-28	Newtowne Neck State Park	DNR	St. Mary's	Lower Potomac	0.00	6.11	6.11	Variance needed from DNR to allow planting proposed in 200 ft. buffer from edge of existing ag. field boundary.
DNR-30	Newtowne Neck State Park	DNR	St. Mary's	Lower Potomac	0.00	2.16	2.16	Variance needed from DNR to allow planting. Planting area includes entire agricultural field.
DNR-31	Newtowne Neck State Park	DNR	St. Mary's	Lower Potomac	0.00	3.81	3.81	Variance needed from DNR to allow planting proposed in 200 ft. buffer from edge of existing ag. field boundary.
DNR-32	Newtowne Neck State Park	DNR	St. Mary's	Lower Potomac	0.00	19.60	19.60	Variance needed from DNR to allow planting proposed in 200 ft. buffer from edge of existing ag. field boundary.
DNR-35	Newtowne Neck State Park	DNR	St. Mary's	Lower Potomac	0.00	6.04	6.04	Variance needed from DNR to allow planting proposed in 200 ft. buffer from edge of existing ag. field boundary.
DNR-37	Newtowne Neck State Park	DNR	St. Mary's	Lower Potomac	0.00	2.32	2.32	Variance needed from DNR to allow planting proposed in 200 ft. buffer from edge of existing ag. field boundary.
DNR-38	Newtowne Neck State Park	DNR	St. Mary's	Lower Potomac	0.00	16.28	16.28	Variance needed from DNR to allow planting proposed in 200 ft. buffer from edge of existing ag. field boundary.
DNR-39	Newtowne Neck State Park	DNR	St. Mary's	Lower Potomac	0.00	2.48	2.48	Variance needed from DNR to allow planting proposed in 250 ft. buffer from edge of existing ag. field boundary.
DNR-40	Newtowne Neck State Park	DNR	St. Mary's	Lower Potomac	0.00	3.78	3.78	Variance needed from DNR to allow planting proposed in 280 ft. buffer from edge of existing ag. field boundary.
DNR-41	Newtowne Neck State Park	DNR	St. Mary's	Lower Potomac	0.00	3.17	3.17	Variance needed from DNR to allow planting proposed in 125 ft. buffer from edge of existing ag. field boundary.
DNR-42	Newtowne Neck State Park	DNR	St. Mary's	Lower Potomac	0.00	8.22	8.22	DNR took this site out of agriculture lease a few years ago. DNR will maintain to control invasives until the site is planted.
MNCPPCMO-2A	Rock Creek SVU 4 & SVU 5	M-NCPPC	Montgomery	Washington Metropolitan	0.00	0.97	0.97	Sewer line excluded from planting area. Potential wetland present.
MNCPPCMO-2B	Rock Creek SVU 4 & SVU 5	M-NCPPC	Montgomery	Washington Metropolitan	0.00	0.41	0.41	Clear invasive species in adjacent forested area to the southwest. Sewer line excluded from planting area.
MNCPPCMO-3A	Olney Recreational Park	M-NCPPC	Montgomery	Washington Metropolitan	0.00	1.20	1.20	Mowed lawn with scattered trees.
MNCPPCMO-4A	Northwest Branch SVU 5	M-NCPPC	Montgomery	Washington Metropolitan	0.00	0.59	0.59	Green space/mowed area used by public. Minor clearing of invasives in southern bump out area.
MNCPPCMO-8A	Northwest Branch SVU 5 - South	M-NCPPC	Montgomery	Washington Metropolitan	0.00	1.00	1.00	Adjacent to existing ICC reforestation site. Sporadic plantings observed, infill possible. Clear existing Bradford pears.
MNCPPCMO-9A	Rock Creek SVU 2	M-NCPPC	Montgomery	Washington Metropolitan	0.00	1.21	1.21	Mowed lawn with scattered trees. Ephemeral channel observed at northern edge near existing treeline.
NASA_01	NASA Goddard and Flight Center	NASA	Prince George's	Washington Metropolitan	0.00	1.64	1.64	Soil spoil area. Proposed planting area is on top of a very steep plateau. Removal of invasives required.
NASA_02	NASA Goddard and Flight Center	NASA	Prince George's	Washington Metropolitan	0.00	1.98	1.98	Partially forested wet depression observed north of the planting area.
USDA-2B	George Washington Carver Center	USDA	Prince George's	Washington Metropolitan	0.00	0.40	0.40	Maintain a clear space adjacent to building.
USDA-3A	George Washington Carver Center	USDA	Prince George's	Washington Metropolitan	0.00	1.36	1.36	NRHP eligible prehistoric site 18PR94. Propose whips for tree planting under an MOU with MHT. Adjacent to tele-com manhole.
USDA-3B	George Washington Carver Center	USDA	Prince George's	Washington Metropolitan	0.00	0.29	0.29	Tele-com fiber optic handboxes adjacent to planting area.
USDA-4A	George Washington Carver Center	USDA	Prince George's	Washington Metropolitan	0.00	0.37	0.37	Adjacent gas utility line excluded from potential planting area boundary.
USDA-4B	George Washington Carver Center	USDA	Prince George's	Washington Metropolitan	0.00	0.28	0.28	Maintained grass field.
USDA-4C	George Washington Carver Center	USDA	Prince George's	Washington Metropolitan	0.00	0.11	0.11	Maintained grass field.
USDA-4D	George Washington Carver Center	USDA	Prince George's	Washington Metropolitan	0.00	0.26	0.26	Maintained grass field.
USDA-6A	George Washington Carver Center	USDA	Prince George's	Washington Metropolitan	0.00	2.72	2.72	Keep tree plantings away from SWM Facilities
USFWS-1	Patuxent Research Refuge	USFWS	Anne Arundel	Patuxent River	0.00	25.45	25.45	Large open site with gravelly, sandy soil. Potential wetland and stand of Phragmites australis. Chinese silver grass and Bradford pears observed. USFWS goal is to create an oak-pine savannah ecosystem. Large, dense stands of volunteer sweet gum are present.
USFWS-2	Patuxent Research Refuge	USFWS	Prince George's	Patuxent River	0.00	7.75	7.75	Large potential wetland adjacent to site and potential PEM wetland within site. Stands of Phragmites australis, pear, multiflora.
USFWS-3	Patuxent Research Refuge	USFWS	Prince George's	Patuxent River	0.00	3.22	3.22	Maintain existing 8-ft. access route within planting boundary. Some invasives and scattered stands of sweetgum regeneration present.
USFWS-4	Patuxent Research Refuge	USFWS	Prince George's	Patuxent River	0.00	2.36	2.36	House demo is complete. USFWS will remove utilities, remediate soil, apply compost and reseed.
USFWS-5	Patuxent Research Refuge	USFWS	Prince George's	Patuxent River	0.00	0.76	0.76	Open, maintained field adjacent to ponds.
USFWS-6	Patuxent Research Refuge	USFWS	Prince George's	Patuxent River	0.00	1.53	1.53	Open field. Small patch eastern red cedars in center of planting area. Maintain a 5 ft. wide buffer for access to Motus tower.
USFWS-7	Patuxent Research Refuge	USFWS	Prince George's	Patuxent River	0.00	1.45	1.45	Open field. Accessible from tram road. Wet swale along road, just outside of planting boundary. No invasives observed
USFWS-8	Patuxent Research Refuge	USFWS	Prince George's	Patuxent River	0.00	0.59	0.59	Open field. Leave two parking spaces for hunters.
USFWS-9	Patuxent Research Refuge	USFWS	Prince George's	Patuxent River	0.00	6.29	6.29	Maintain existing field access road, clear invasive hedgerow along northern side of planting boundary.
USFWS-10	Patuxent Research Refuge	USFWS	Prince George's	Patuxent River	0.00	4.31	4.31	Maintain existing field access road. Coordinate with USFWS on treating invasives in surrounding forest/hedgerows.
USFWS-11	Patuxent Research Refuge	USFWS	Prince George's	Patuxent River	0.00	6.24	6.24	Clear invasive species in north of site/surrounding forest. USFWS may remove crane facility prior to planting.



RECOMMENDED FOREST MITIGATION SITES



Site ID	Property Name	Property Owner	County	Watershed Name	Retention Acreage	Planting Acreage	Credit Acres	Overall Site Comments
USFWS-12	Patuxent Research Refuge	USFWS	Prince George's	Patuxent River	0.00	1.45	1.45	USFWS will demo buildings, fill basements, apply topsoil, compost, and seed.
USFWS-13	Patuxent Research Refuge	USFWS	Anne Arundel	Patuxent River	0.00	2.44	2.44	Stockpile area with mulch piles and trailer. USFWS will rip the site and incorporate compost to alleviate soil compaction.
Recommended Retention Sites								
OP3-OREPRO-0002	Excess Lands	MDOT SHA	Prince George's	Washington Metropolitan	6.23	0.00	3.12	Early/mid succession forest. Wetlands and waters observed. Utility line runs along park path and adjacent to parcel boundary.
OP3-OREPRO-0004	Excess Lands	MDOT SHA	Howard	Patuxent River	3.46	0.00	1.73	Mid to late succession forest. No/low invasive species present.
OP3-OREPRO-0012	Excess Lands	MDOT SHA	Howard	Patuxent River	2.24	0.00	1.12	Mid succession forest. Herbaceous and woody vines present.
OP3-OREPRO-0013	Excess Lands	MDOT SHA	Howard	Patuxent River	2.34	0.00	1.17	Mid succession forest. Low invasive species present. Water and wetland resources present
OP3-OREPRO-0014	Excess Lands	MDOT SHA	Howard	Patuxent River	12.08	0.00	6.04	Early to mid succession forest. Minimal invasives present. Perennial stream observed.
OP3-OREPRO-0016	Excess Lands	MDOT SHA	Howard	Patuxent River	3.77	0.00	1.89	Mid succession forest, minimal invasives. Perennial stream present. PEM/PSS adjacent to sound wall, excluded from retention area.
OP3-OREPRO-0017	Excess Lands	MDOT SHA	Prince George's	Washington Metropolitan	27.87	0.00	13.94	Mid to late succession forest. High retention value due to FIDS habitat and cultural resources. Spring observed.
OP3-OREPRO-0022	Excess Lands	MDOT SHA	Montgomery	Washington Metropolitan	2.58	0.00	1.29	Mid succession forest. Minor herbaceous invasives and some woody vines into crown.
OP3-OREPRO-0023	Excess Lands	MDOT SHA	Montgomery	Washington Metropolitan	5.13	0.00	2.57	Mid to late succession forest. Minimal invasive species and intermittent streams present. ICC Reforestation area excluded.
OP3-OREPRO-0024	Excess Lands	MDOT SHA	Prince George's	Patuxent River	5.39	0.00	2.70	Mid to late succession forest, few specimen trees.
OP3-OREPRO-0025	Excess Lands	MDOT SHA	Anne Arundel	Patuxent River	11.98	0.00	5.99	Mid to late succession forest with low invasives. Perennial stream and wetlands present.
OP3-OREPRO-0026	Excess Lands	MDOT SHA	Anne Arundel	Patuxent River	13.99	0.00	7.00	Early to mid-succession forest with minimal invasive species. Wetlands, perennial and intermittent streams present.
OP3-OREPRO-0034	Excess Lands	MDOT SHA	Montgomery	Washington Metropolitan	10.65	0.00	5.33	Mid succession forest. Existing M-NCPPC FC easement excluded from retention area.
OP3-OREPRO-0108, 0142, 0143	Excess Lands	MDOT SHA	Prince George's	Patuxent River	6.87	0.00	3.44	Mid-succession forest in good condition. Wetlands and Streams present. Evidence of flooding. Forest Retention Area sign observed but PG FCE GIS data does not indicate any FCEs on the parcel.
				TOTAL	114.58	295.27	352.57	

DROPPED FOREST MITIGATION SITES



Site ID	Property Owner	Property Name	Watershed Name	Retention Acreage	Planting Acreage	Credit Acres	Overall Site Comments
Dropped Planting Sites							
BARC-01	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	4.12	4.12	Part of BARC CERCLA Program. May be available in time for consideration during the construction phase. Easily accessible, maintained field.
BARC-03	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	0.25	0.25	Not available due to BARC's MS-4 regulatory requirements. Existing buildings on site.
BARC-05	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	1.18	1.18	Not available due to present and future BARC research requirements.
BARC-06	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	2.61	2.61	Not available due to future BARC needs. Historic district site.
BARC-08	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	2.73	2.73	Not available due to BARC's MS-4 regulatory requirements.
BARC-09	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	21.50	21.50	Not currently available. Part of BARC CERCLA Program (old College Park Landfill). May be available in time for consideration during the construction phase.
BARC-10	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	10.05	10.05	Not available due to BARC's MS-4 regulatory requirements.
BARC-11	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	8.21	8.21	Not available due to present and future BARC research requirements.
BARC-12	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	5.08	5.08	Not available due to present and future BARC research requirements.
BARC-13	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	23.37	23.37	Not available due to present and future BARC research requirements.
BARC-14	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	26.21	26.21	Not available due to present and future BARC research requirements.
BARC-15	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	5.73	5.73	Requires EA and building demolition, which is not currently funded by BARC.
BARC-16	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	7.05	7.05	Requires EA and building demolition, which is not currently funded by BARC.
DNR-03	DNR	Seneca Creek State Park	Washington Metropolitan	0.00	9.00	9.00	Not available for infill planting, existing TMDL site.
DNR-04	DNR	Patuxent State Park	Patuxent River	0.00	5.20	5.20	Designated wildlands, not available for planting
DNR-05	DNR	Patuxent State Park	Patuxent River	0.00	6.60	6.60	Designated wildlands, not available for planting
DNR-06	DNR	Patuxent State Park	Patuxent River	0.00	10.28	10.28	Designated wildlands, not available for planting
DNR-07	DNR	Seneca Creek State Park	Washington Metropolitan	0.00	2.64	2.64	Very heavy invasive cover, not cost effective for planting.
DNR-29	DNR	Newtowne Neck State Park	Lower Potomac	0.00	4.55	4.55	In July 2020, DNR determined this site was not available for planting.
DNR-33	DNR	Newtowne Neck State Park	Lower Potomac	0.00	10.09	10.09	In July 2020, DNR determined this site was not available for planting.
DNR-34	DNR	Newtowne Neck State Park	Lower Potomac	0.00	12.06	12.06	In July 2020, DNR determined this site was not available for planting.
DNR-36	DNR	Newtowne Neck State Park	Lower Potomac	0.00	8.81	8.81	In July 2020, DNR determined this site was not available for planting.
MNCPPCMO-10A	M-NCPPC	Northwest Branch SVU 7	Washington Metropolitan	0.00	22.52	22.52	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-10B	M-NCPPC	Northwest Branch SVU 7	Washington Metropolitan	0.00	1.83	1.83	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-11A	M-NCPPC	Northwest Branch SVU 7	Washington Metropolitan	0.00	40.77	40.77	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-12	M-NCPPC	Cabin John SVU 5	Washington Metropolitan	0.00	1.87	1.87	Difficult site access, would need to coordinate with M-NCPPC and private property owners. Moderate site prep required.
MNCPPCMO-13	M-NCPPC	Rock Creek SVU 3	Washington Metropolitan	0.00	4.53	4.53	Insufficient area for planting and high site prep required.
MNCPPCMO-14	M-NCPPC	Rock Creek Park	Washington Metropolitan	0.00	1.79	1.79	Entire site is wetland.
MNCPPCMO-15	M-NCPPC	Wheaton Regional Park	Washington Metropolitan	0.00	1.24	1.24	High site prep required, wisteria growing into canopy.
MNCPPCMO-1A	M-NCPPC	Waverly-Schuylkill Neighborhood Park	Washington Metropolitan	0.00	0.28	0.28	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-1B	M-NCPPC	Waverly-Schuylkill Neighborhood Park	Washington Metropolitan	0.00	0.42	0.42	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-1C	M-NCPPC	Waverly-Schuylkill Neighborhood Park	Washington Metropolitan	0.00	0.19	0.19	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-3B	M-NCPPC	Olney Recreational Park	Washington Metropolitan	0.00	0.48	0.48	Emergency spillway observed. Planting is restricted within emergency spillways.
MNCPPCMO-4B	M-NCPPC	Northwest Branch SVU 5	Washington Metropolitan	0.00	0.28	0.28	Insufficient planting area excluding observed wetland area.
MNCPPCMO-4C	M-NCPPC	Northwest Branch SVU 5	Washington Metropolitan	0.00	0.17	0.17	High site prep required for a small area along a steep slope.
MNCPPCMO-5A	M-NCPPC	Rock Creek SVU 6	Washington Metropolitan	0.00	3.20	3.20	High invasive cover including Chinese wisteria, not suitable for reforestation planting.
MNCPPCMO-5B	M-NCPPC	Rock Creek SVU 6	Washington Metropolitan	0.00	0.76	0.76	High invasive cover including Chinese wisteria, not suitable for reforestation planting.
MNCPPCMO-6A	M-NCPPC	Cabin John Regional Park	Washington Metropolitan	0.00	2.24	2.24	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-6B	M-NCPPC	Cabin John Regional Park	Washington Metropolitan	0.00	1.02	1.02	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-7A	M-NCPPC	Northwest Branch Recreational Park	Washington Metropolitan	0.00	11.07	11.07	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-7B	M-NCPPC	Northwest Branch Recreational Park	Washington Metropolitan	0.00	1.01	1.01	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-7C	M-NCPPC	Northwest Branch Recreational Park	Washington Metropolitan	0.00	4.34	4.34	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-7D	M-NCPPC	Northwest Branch Recreational Park	Washington Metropolitan	0.00	0.60	0.60	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-7E	M-NCPPC	Northwest Branch Recreational Park	Washington Metropolitan	0.00	3.28	3.28	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-7F	M-NCPPC	Northwest Branch Recreational Park	Washington Metropolitan	0.00	0.71	0.71	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-7G	M-NCPPC	Northwest Branch Recreational Park	Washington Metropolitan	0.00	3.55	3.55	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-7H	M-NCPPC	Northwest Branch Recreational Park	Washington Metropolitan	0.00	1.40	1.40	M-NCPPC noted that 5 RTEs are present in this location (survey conducted prior to the ICC).
MNCPPCMO-7I	M-NCPPC	Northwest Branch Recreational Park	Washington Metropolitan	0.00	0.93	0.93	M-NCPPC indicated that this site is not available and is planned for other uses.
MNCPPCMO-8B	M-NCPPC	Northwest Branch SVU 5 - South	Washington Metropolitan	0.00	0.97	0.97	Entire site is wetland.
MNCPPCMO-8C	M-NCPPC	Northwest Branch SVU 5 - South	Washington Metropolitan	0.00	3.14	3.14	MNCPPC indicated that this site is not available and is planned for other uses.
NASA_03	NASA	NASA Goddard and Flight Center	Washington Metropolitan	0.00	1.39	1.39	Overrun with invasive species (Bradford pear, lespedeza and hops), site prep effort is extensive for a limited planting area.
OP3-EXCMDP-0001	Veterans Dept. of Affairs	Excess Real Property	Washington Metropolitan	0.00	10.07	10.07	Not available, Veterans Dept. of Affairs is owner
OP3-EXCMDP-0002	City of Gaithersburg	Excess Real Property	Washington Metropolitan	0.00	2.70	2.70	Not available, City of Gaithersburg is owner
OP3-OREPRO-0008	MDOT SHA	Excess Lands	Patuxent River	0.00	4.70	4.70	Reforestation planting would block view to adjacent Grace Community Church.
OP3-OREPRO-0038	MDOT SHA	Excess Lands	Washington Metropolitan	0.00	7.97	7.97	Not cost effective for planting or retention due to low quality forest and high site prep for planting.
OP3-OREPRO-0094	MDOT SHA	Excess Lands	Patapsco River	0.00	0.41	0.41	Insufficient planting area, adjacent to developed parcels.
OP3-OREPRO-0109	MDOT SHA	Excess Lands	Washington Metropolitan	0.00	2.29	2.29	ICC SWM facility, insufficient planting area.
OP3-OREPRO-0110	MDOT SHA	Excess Lands	Washington Metropolitan	0.00	4.61	4.61	Property sold to M-NCPPC.
OP3-OREPRO-0111	MDOT SHA	Excess Lands	Washington Metropolitan	0.00	0.87	0.87	ICC SWM facility, insufficient planting area.
OP3-OREPRO-0178	MDOT SHA	Excess Lands	Washington Metropolitan	0.00	3.50	3.50	Significant coordination with adjacent property owners would be required due to backyard encroachment into parcel.

DROPPED FOREST MITIGATION SITES



Site ID	Property Owner	Property Name	Watershed Name	Retention Acreage	Planting Acreage	Credit Acres	Overall Site Comments
OP3-OREPRO-0115	MDOT SHA	Excess Lands	Patuxent River	0.00	3.82	3.82	Retained for future US-29 reconstruction and implementation of access controls. No opportunities to plant on adjacent county-owned parcels, designated as an undeveloped county park.
OP3-OREPRO-0117	MDOT SHA	Excess Lands	Washington Metropolitan	0.00	0.66	0.66	Contains Existing SWM Facility and TMDL sites
OP3-OREPRO-0133	MDOT SHA	Excess Lands	Washington Metropolitan	0.00	1.15	1.15	Existing SW Facility 160549.
OP3-OREPRO-0137	MDOT SHA	Excess Lands	Washington Metropolitan	0.00	3.66	3.66	Site has been planted recently. All trees are immature.
OP3-OREPRO-0138	MDOT SHA	Excess Lands	Washington Metropolitan	0.00	22.73	22.73	Existing M-NCPPC FC Easement/ and ICC planting site.
OP3-OREPRO-0149	MDOT SHA	Excess Lands	Washington Metropolitan	0.00	0.25	0.25	Existing SWM facility, within LOD10.
USDA-5A	USDA	George Washington Carver Center	Washington Metropolitan	0.00	0.31	0.31	USDA GWCC indicated this area is not feasible
USDA-5B	USDA	George Washington Carver Center	Washington Metropolitan	0.00	1.15	1.15	USDA GWCC indicated this area is not feasible
USDA-7A	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	9.56	9.56	Not available due to present and future BARC research requirements.
USDA-7B	USDA	Beltsville Agricultural Research Center	Washington Metropolitan	0.00	14.77	14.77	Not available due to present and future BARC research requirements.
Tax ID: 3507159	State of Maryland	Excess Real Property	Washington Metropolitan	0.00	10.37	10.37	Parcel is mostly developed, no planting opportunities were identified.
Dropped Retention Sites							
Item Num: 89272	MDOT SHA	Excess Lands	Washington Metropolitan	0.66	0.00	0.33	Close proximity to ICC, insufficient retention area after accounting for buffer from surrounding roads
OP3-EXCMDP-0003	State of Maryland	Excess Real Property	Washington Metropolitan	6.80	0.00	3.40	Not available, site proposed for graduate housing development.
OP3-EXCMDP-0004, OP3-OREPRO-0030, OP3-OREPRO-0172	MDOT SHA	Excess Lands	Patuxent River	2.34	0.00	1.17	Insufficient retention area for cost to retain property. FCE along northern edge of parcel.
OP3-EXCMDP-0006	State of Maryland	Excess Real Property	Patuxent River	10.50	0.00	5.25	Not available for use according to MDP. Mapped wetland within parcel, potential FIDS habitat, ICC wetlands and other mapped wetlands adjacent to
OP3-EXCMDP-0007	State of Maryland	Excess Real Property	Patuxent River	15.00	0.00	7.50	Not available for use according to MDP. PG FCEs within parcel, potential FIDS habitat, mapped resources just outside parcel.
OP3-EXCMDP-0008	State of Maryland	Excess Real Property	Patuxent River	4.70	0.00	2.35	Not available for use according to MDP. Wetland/waters features within parcel.
OP3-EXCMDP-0011	State of Maryland	Excess Real Property	Patuxent River	13.90	0.00	6.95	Not available according to MDP. Majority of site has existing MoCo FCEs and one ICC planting site.
OP3-EXCMDP-0013	State of Maryland	Excess Real Property	Washington Metropolitan	3.70	0.25	2.10	Not available
OP3-EXCMDP-0024	State of Maryland	Excess Real Property	Patuxent River	2.72	0.00	1.36	Entire parcel contains an existing PG FCE.
OP3-OREPRO-0005, OP3-OREPRO-0006, OP3-OREPRO-0154, OP3-OREPRO-0155	MDOT SHA	Excess Lands	Washington Metropolitan	3.59	0.00	1.80	Insufficient retention area
OP3-OREPRO-0007, OP3-OREPRO-0157	MDOT SHA	Excess Lands	Patuxent River	7.45	0.00	3.73	Proposed MDOT SHA FCA bank is not available for MLS use.
OP3-OREPRO-0009, OP3-OREPRO-0010, OP3-OREPRO-0156, OP3-OREPRO-0157	MDOT SHA	Excess Lands	Patuxent River	20.17	0.00	10.09	Proposed MDOT SHA FCA bank is not available for MLS use.
OP3-OREPRO-0011	MDOT SHA	Excess Lands	Patuxent River	10.73	0.00	5.37	Proposed MDOT SHA FCA bank is not available for MLS use.
OP3-OREPRO-0018	MDOT SHA	Excess Lands	Patuxent River	1.95	0.00	0.98	Insufficient retention area accounting for sewer easement to the south of the parcel.
OP3-OREPRO-0019	MDOT SHA	Excess Lands	Washington Metropolitan	3.18	0.00	1.59	Not available, property will be conveyed to M-NCPPC.
OP3-OREPRO-0020	MDOT SHA	Excess Lands	Patuxent River	2.82	0.00	1.41	High site prep required to clear heavy invasive species cover. Insufficient retention area available.
OP3-OREPRO-0027	MDOT SHA	Excess Lands	Patuxent River	1.97	0.00	0.99	Insufficient retention area. Existing ICC reforestation site.
OP3-OREPRO-0028	MDOT SHA	Excess Lands	Patuxent River	3.16	0.00	1.58	Insufficient retention area, low quality forest and location.
OP3-OREPRO-0032	MDOT SHA	Excess Lands	Washington Metropolitan	2.62	0.00	1.31	Not available, MDOT intended to sell property in March 2020
OP3-OREPRO-0041	MDOT SHA	Excess Lands	Washington Metropolitan	5.26	0.00	2.63	SHA already received mitigation credit for this site.
OP3-OREPRO-0043, OP3-OREPRO-0044	MDOT SHA	Excess Lands	Washington Metropolitan	1.86	0.00	0.93	Not available - conveyed to MTA, no longer owned by SHA.
OP3-OREPRO-0093	MDOT SHA	Excess Lands	Washington Metropolitan	0.95	0.00	0.48	Insufficient retention area.
OP3-OREPRO-0095	MDOT SHA	Excess Lands	Washington Metropolitan	0.52	0.00	0.26	Existing M-NCPPC FC Easement on a portion of the parcel, landlocked by private parcels. Insufficient retention area.
OP3-OREPRO-0096	MDOT SHA	Excess Lands	Washington Metropolitan	0.49	0.00	0.25	Existing M-NCPPC FC Easement on a portion of the parcel, landlocked by private parcels. Insufficient retention area.
OP3-OREPRO-0100	MDOT SHA	Excess Lands	Washington Metropolitan	0.88	0.00	0.44	Existing M-NCPPC FC Easement on a portion of the parcel, landlocked by private parcels. Insufficient retention area.
OP3-OREPRO-0102	MDOT SHA	Excess Lands	Washington Metropolitan	0.82	0.00	0.41	Existing M-NCPPC FC Easement on a portion of the parcel, landlocked by private parcels. Insufficient retention area.
OP3-OREPRO-0107	MDOT SHA	Excess Lands	Washington Metropolitan	1.60	0.00	0.80	Insufficient retention area.
OP3-OREPRO-0114	MDOT SHA	Excess Lands	Patuxent River	1.15	0.00	0.58	Insufficient retention area.
OP3-OREPRO-0115	MDOT SHA	Excess Lands	Patuxent River	1.48	0.00	0.74	Active TMDL Site.
OP3-OREPRO-0116	MDOT SHA	Excess Lands	Patuxent River	1.47	0.00	0.73	Insufficient retention area/not cost effective for infill planting.
OP3-OREPRO-0119	MDOT SHA	Excess Lands	Washington Metropolitan	0.30	0.00	0.15	Not cost effective for infill planting.
OP3-OREPRO-0121	MDOT SHA	Excess Lands	Washington Metropolitan	0.38	0.00	0.19	Insufficient retention area/not cost effective for infill planting.
OP3-OREPRO-0122	MDOT SHA	Excess Lands	Washington Metropolitan	0.87	0.00	0.44	Insufficient retention area.
OP3-OREPRO-0126, OP3-OREPRO-0129	MDOT SHA	Excess Lands	Washington Metropolitan	3.43	0.00	1.72	Not available due to potential for future expansion of US 301.
OP3-OREPRO-0126, OP3-OREPRO-0129	MDOT SHA	Excess Lands	Washington Metropolitan	2.91	0.00	1.46	Not available due to potential for future expansion of US 301.
OP3-OREPRO-0127	MDOT SHA	Excess Lands	Washington Metropolitan	5.63	0.00	2.82	WSSC sewer easement spans a majority of parcel. Insufficient retention area.
OP3-OREPRO-0128	MDOT SHA	Excess Lands	Washington Metropolitan	1.00	0.00	0.50	Insufficient retention area
OP3-OREPRO-0130	MDOT SHA	Excess Lands	Washington Metropolitan	8.80	0.00	4.40	Site spans existing county road. Insufficient retention area after accounting for 100 ft. road buffers.
OP3-OREPRO-0134	MDOT SHA	Excess Lands	Patuxent River	1.88	0.00	0.94	Insufficient retention area.
OP3-OREPRO-0135	MDOT SHA	Excess Lands	Patuxent River	3.70	0.00	1.85	Majority of site is an existing SWM facility.
OP3-OREPRO-0136	MDOT SHA	Excess Lands	Washington Metropolitan	1.69	0.00	0.85	Insufficient retention area
OP3-OREPRO-0139	MDOT SHA	Excess Lands	Washington Metropolitan	1.32	0.00	0.66	Insufficient retention area.
OP3-OREPRO-0144	MDOT SHA	Excess Lands	Washington Metropolitan	3.14	0.00	1.57	Screened as a potential retention site, no existing forest to retain according to field review. High site prep required to plant open areas on site.
OP3-OREPRO-0145	MDOT SHA	Excess Lands	Washington Metropolitan	4.11	0.00	2.06	Site rejected by DNR for use as FC Bank, proposed for parkland replacement instead of reforestation mitigation

DROPPED FOREST MITIGATION SITES

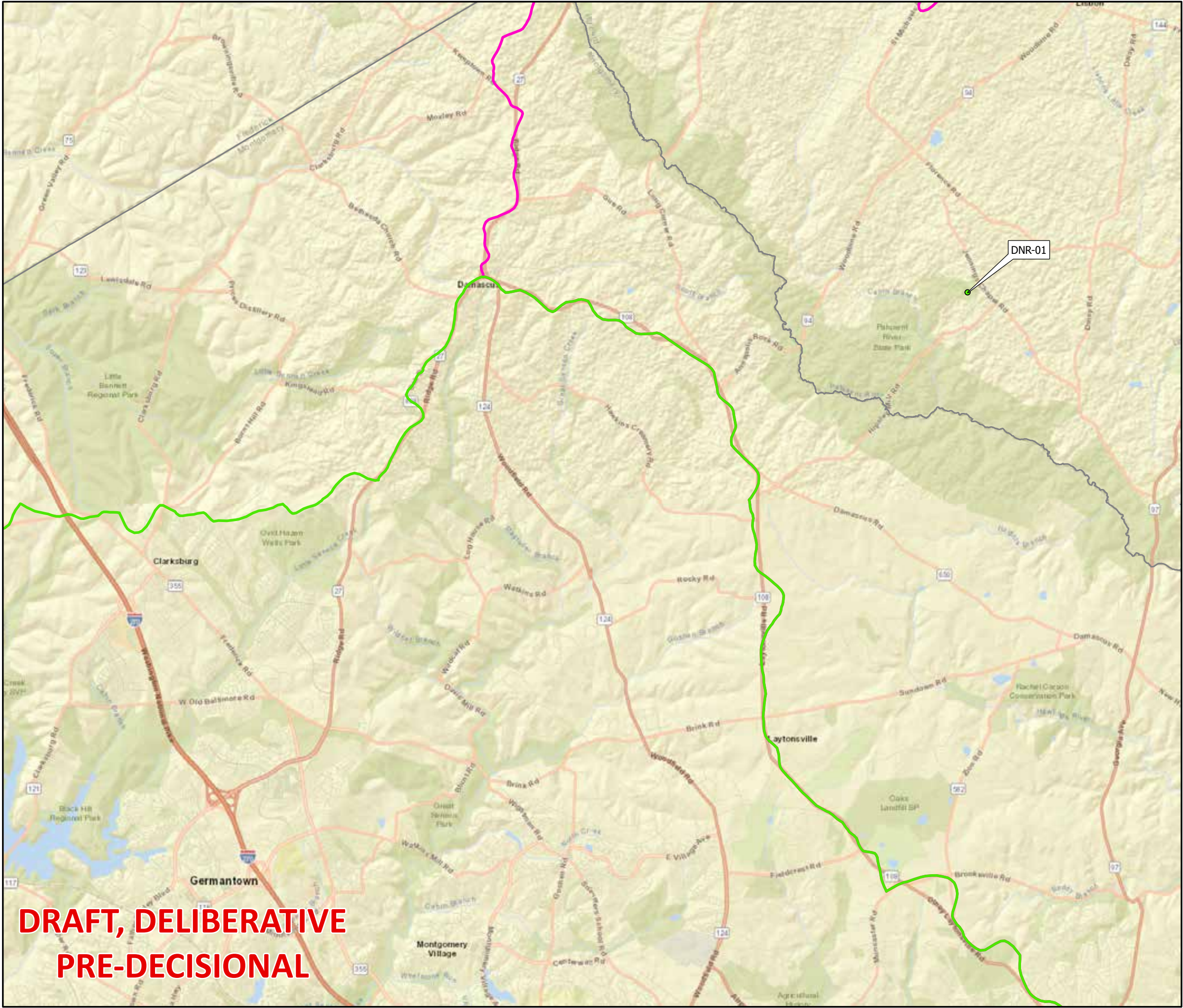


Site ID	Property Owner	Property Name	Watershed Name	Retention Acreage	Planting Acreage	Credit Acres	Overall Site Comments
OP3-OREPRO-0145	MDOT SHA	Excess Lands	Washington Metropolitan	4.11	0.00	2.06	Site rejected by DNR for use as FC Bank, proposed for parkland replacement instead of reforestation mitigation
OP3-OREPRO-0146	MDOT SHA	Excess Lands	Washington Metropolitan	1.00	0.00	0.50	Insufficient retention area.
OP3-OREPRO-0148	MDOT SHA	Excess Lands	Washington Metropolitan	1.60	0.00	0.80	Insufficient retention area. Adjacent to M-NCPPC "Park Dedication" area.
OP3-OREPRO-0151	MDOT SHA	Excess Lands	Washington Metropolitan	0.85	0.00	0.43	Existing SWM Facility
OP3-OREPRO-0152	MDOT SHA	Excess Lands	Patuxent River Watershed	7.53	0.00	3.77	Insufficient retention area, tree/shrub cover does not meet forest definition.
OP3-OREPRO-0153	MDOT SHA	Excess Lands	Washington Metropolitan	2.23	0.00	1.12	Not available, MDOT intends to sell the property.
OP3-OREPRO-0158	MDOT SHA	Excess Lands	Washington Metropolitan	0.26	0.00	0.13	Existing M-NCPPC FCE.
OP3-OREPRO-0171	MDOT SHA	Excess Lands	Patuxent River	0.99	0.00	0.50	Insufficient retention area.
OP3-OREPRO-0174	MDOT SHA	Excess Lands	Patapsco River	1.98	0.00	0.99	Insufficient retention area, surrounded by developed parcels.
OP3-OREPRO-0176	MDOT SHA	Excess Lands	Washington Metropolitan	11.06	0.00	5.53	Site rejected by DNR for use as FC Bank, proposed for parkland replacement instead of reforestation mitigation
Tax ID: 07-3422581	Prince George's County	Excess Real Property	Patuxent River	21.80	0.00	10.90	Entire parcel has a PG FCE
Tax ID: 21-2292993	Prince George's County	PG Schools Property	Washington Metropolitan	10.65	0.00	5.33	Property acquisition/transfer coordination between PG County schools and SHA ongoing. Did not field review.
Dropped Sites with Both Planting and Retention Opportunities							
Item Num: 32478	MDOT SHA	Excess Lands	Washington Metropolitan	1.73	0.66	1.53	Insufficient area for retention or planting, adjacent school uses baseball field.
OP3-EXCMDP-0005, OP3-OREPRO-0033, OP3-OREPRO-0170	MDOT SHA	Excess Lands	Washington Metropolitan	3.87	0.50	2.44	Not available, MDOT intends to sell the property.
OP3-OREPRO-0001	MDOT SHA	Excess Lands	Patuxent River	10.09	0.25	5.30	Not available, WSSC easement through parcel.
OP3-OREPRO-0029	MDOT SHA	Excess Lands	Patuxent River	3.19	2.05	3.65	City of Bowie interested in continuing to use open space as parkland, City of Bowie requested purchase.
OP3-OREPRO-0031	MDOT SHA	Excess Lands	Washington Metropolitan	5.27	0.50	3.14	High invasive cover and low quality forest.
OP3-OREPRO-0039	MDOT SHA	Excess Lands	Patuxent River	3.25	2.12	3.75	Not available, adjacent to active MDOT SHA project (H07565370) under construction to widen MD 32. Construction will be complete in 2022.
OP3-OREPRO-0040	MDOT SHA	Excess Lands	Patuxent River	4.42	1.02	3.23	Extensive site prep required in planting area, demolition of an existing structure required
OP3-OREPRO-0042	MDOT SHA	Excess Lands	Washington Metropolitan	1.37	1.25	1.94	Insufficient retention area. Private property owner coordination required for infill planting.
OP3-OREPRO-0097	MDOT SHA	Excess Lands	Washington Metropolitan	0.49	0.41	0.66	Existing M-NCPPC FC Easement on a portion of the parcel, landlocked by private parcels. Insufficient retention area/not cost effective for infill planting.
OP3-OREPRO-0098	MDOT SHA	Excess Lands	Washington Metropolitan	0.46	0.60	0.83	Existing M-NCPPC FC Easement on a portion of the parcel, landlocked by private parcels. Insufficient retention area/not cost effective for infill planting.
OP3-OREPRO-0099	MDOT SHA	Excess Lands	Washington Metropolitan	0.43	0.29	0.51	Existing M-NCPPC FC Easement on a portion of the parcel, landlocked by private parcels. Insufficient retention area/not cost effective for infill planting.
OP3-OREPRO-0101	MDOT SHA	Excess Lands	Washington Metropolitan	1.36	0.44	1.12	Existing M-NCPPC FC Easement on a portion of the parcel, landlocked by private parcels. Insufficient retention area/not cost effective for infill planting.
OP3-OREPRO-0103	MDOT SHA	Excess Lands	Washington Metropolitan	0.62	0.60	0.91	Landlocked by private parcels, insufficient planting area.
OP3-OREPRO-0104	MDOT SHA	Excess Lands	Washington Metropolitan	0.55	0.56	0.84	Landlocked by private parcels, insufficient planting area.
OP3-OREPRO-0105	MDOT SHA	Excess Lands	Washington Metropolitan	1.91	0.50	1.46	Insufficient retention area.
OP3-OREPRO-0106	MDOT SHA	Excess Lands	Patuxent River	1.03	0.40	0.92	Existing TMDL Site 160182UT.
OP3-OREPRO-0112	MDOT SHA	Excess Lands	Washington Metropolitan	1.14	0.36	0.93	Insufficient retention area/not cost effective for infill planting.
OP3-OREPRO-0113, OP3-OREPRO-0160, OP3-OREPRO-0178	MDOT SHA	Excess Lands	Washington Metropolitan	3.74	2.79	4.66	Significant coordination with adjacent property owner would be required due to encroachment into parcel for overflow church parking area.
OP3-OREPRO-0118	MDOT SHA	Excess Lands	Washington Metropolitan	1.00	0.78	1.28	Contains existing SWM Facility and TMDL sites
OP3-OREPRO-0120	MDOT SHA	Excess Lands	Washington Metropolitan	0.15	0.10	0.18	City of Rockville FCE on entire parcel.
OP3-OREPRO-0123	MDOT SHA	Excess Lands	Washington Metropolitan	1.10	0.29	0.84	Insufficient retention area, insufficient plantable area due to roadway offsets
OP3-OREPRO-0124	MDOT SHA	Excess Lands	Washington Metropolitan	2.10	0.35	1.40	Insufficient retention area, insufficient plantable area due to roadway offsets
OP3-OREPRO-0125, OP3-OREPRO-0183	MDOT SHA	Excess Lands	Lower Potomac	1.93	0.24	1.21	Insufficient retention area/not cost effective for infill planting.
OP3-OREPRO-0131	MDOT SHA	Excess Lands	Washington Metropolitan	0.80	1.04	1.44	Insufficient retention or planting area.
OP3-OREPRO-0132	MDOT SHA	Excess Lands	Washington Metropolitan	1.16	0.18	0.76	Insufficient retention area.
OP3-OREPRO-0140	MDOT SHA	Excess Lands	Washington Metropolitan	0.60	0.22	0.52	Insufficient retention area/not cost effective for infill planting.
OP3-OREPRO-0141	MDOT SHA	Excess Lands	Patuxent River	0.50	0.16	0.41	Insufficient retention area.
OP3-OREPRO-0147	MDOT SHA	Excess Lands	Washington Metropolitan	1.86	0.28	1.21	Insufficient planting area, utility ROW runs through site.
OP3-OREPRO-0150	MDOT SHA	Excess Lands	Washington Metropolitan	0.60	0.65	0.95	Insufficient retention area/not cost effective for infill planting.
OP3-OREPRO-0159	MDOT SHA	Excess Lands	Washington Metropolitan	0.70	40.00	40.35	Existing ICC wetland mitigation site.
OP3-OREPRO-0162, OP3-OREPRO-0165	MDOT SHA	Excess Lands	Patuxent River	3.27	0.20	1.84	Not feasible to put a forest retention easement along ramp from MD 214 to Harry S Truman Dr.
OP3-OREPRO-0163, OP3-OREPRO-0166	MDOT SHA	Excess Lands	Patuxent River	1.18	0.80	1.39	Not feasible to put a forest retention easement along ramp from MD 214 to Harry S Truman Dr.
Tax ID: 00269692	M-NCPPC	Excess Real Property	Washington Metropolitan	15.00	29.41	36.91	Majority of site has existing ICC planting sites; mapped wetlands, stream, provides riparian buffer and potential FIDS habitat.
TOTAL				314.53	499.15	656.41	



## **APPENDIX B: RECOMMENDED SITE MAPS & PHOTOGRAPHIC RECORD OF FIELD REVIEWED SITES**



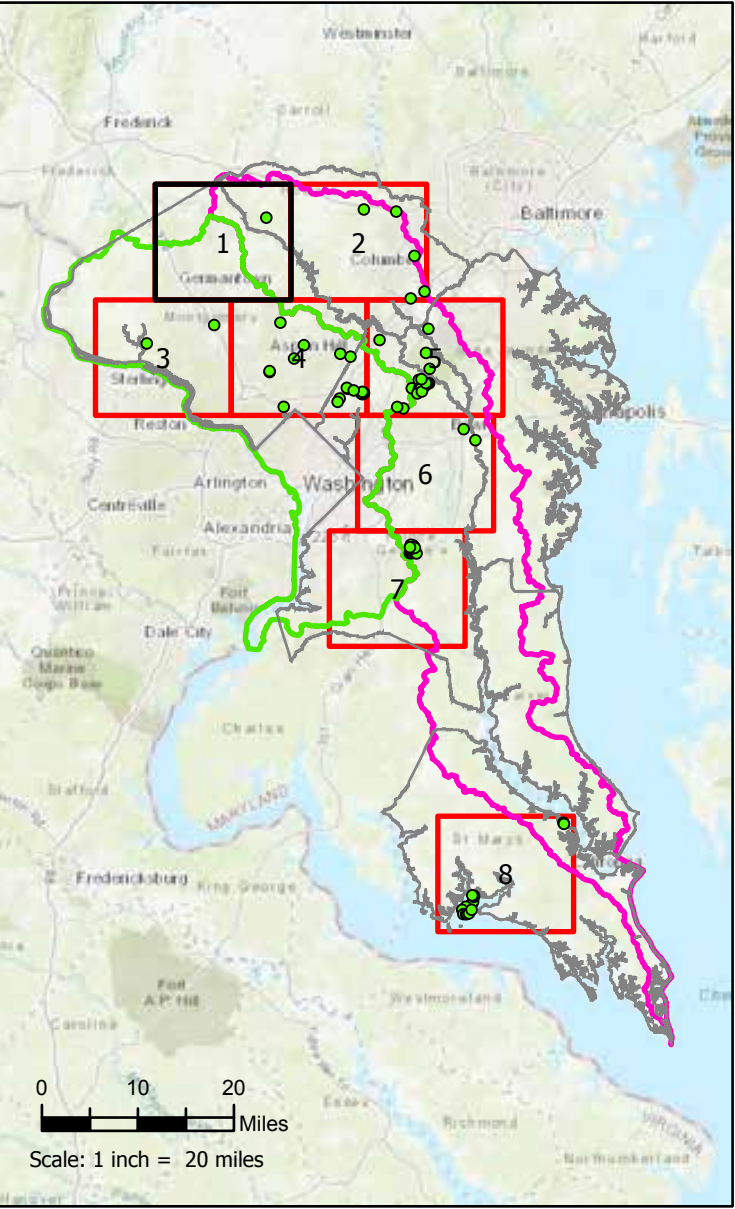


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Mitigation Sites**  
**Vicinity Map**

- Recommended Forest Mitigation Site
- County Boundaries
- Affected Watershed Boundary
- Patuxent River (021311)
- Washington Metropolitan (021402)

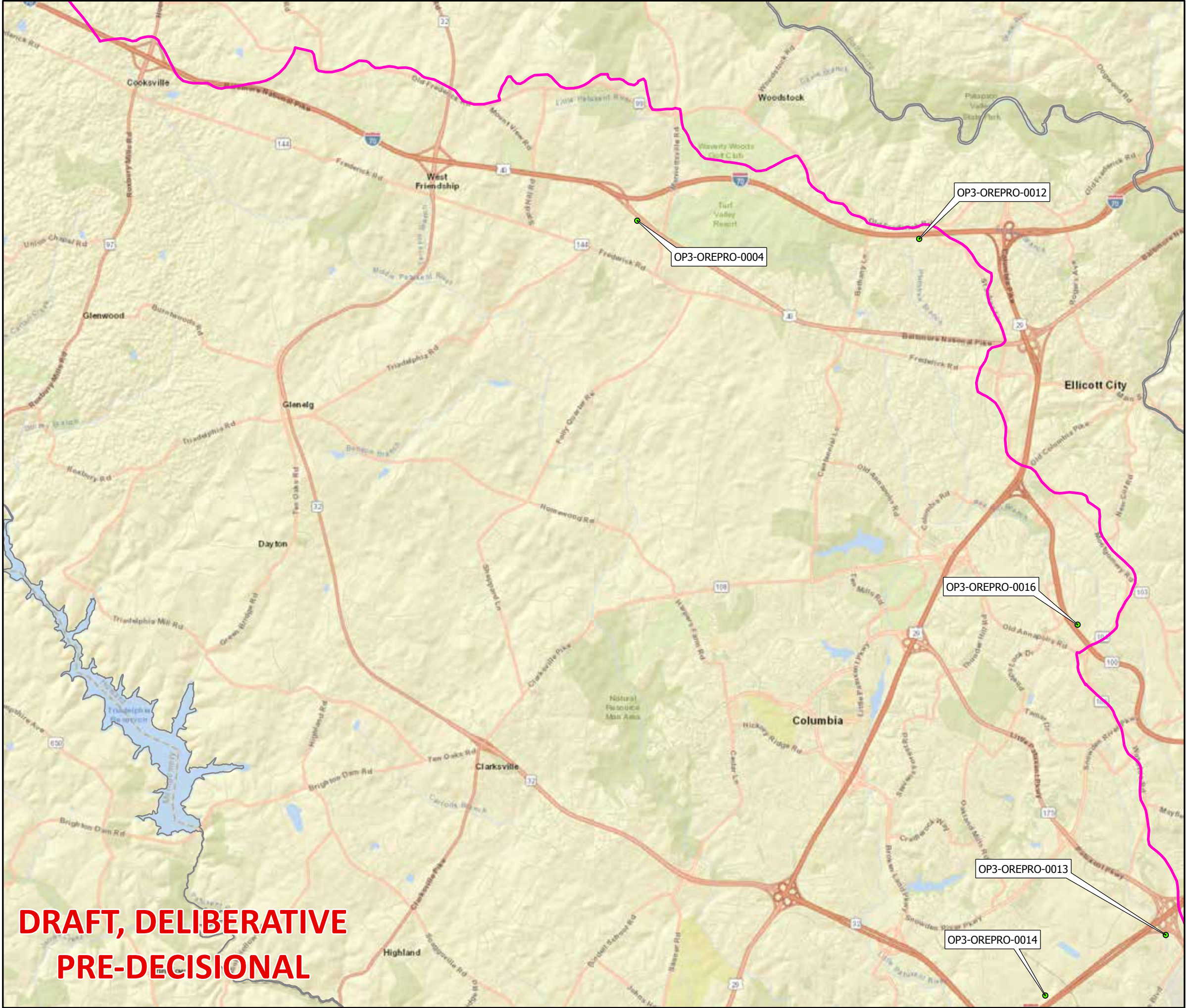
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**PRE-DECISIONAL**



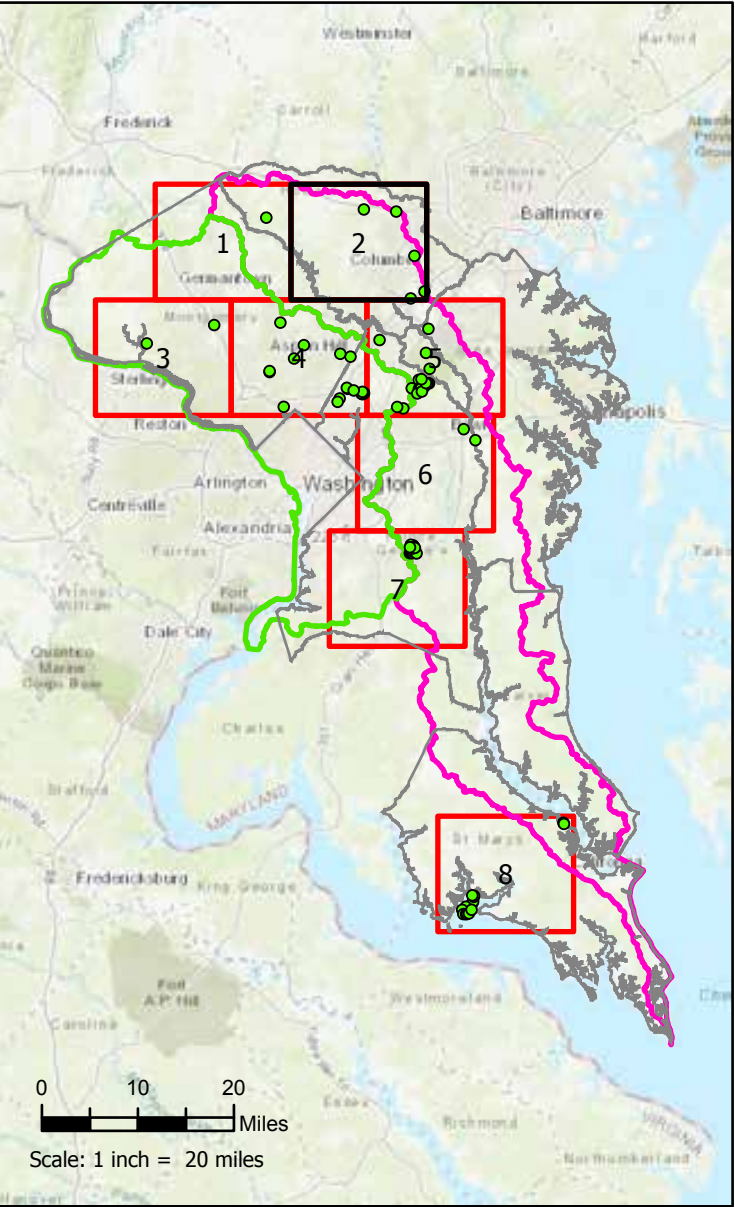


I-495 & I-270 MLS Reforestation Law Mitigation  
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**Vicinity Map**

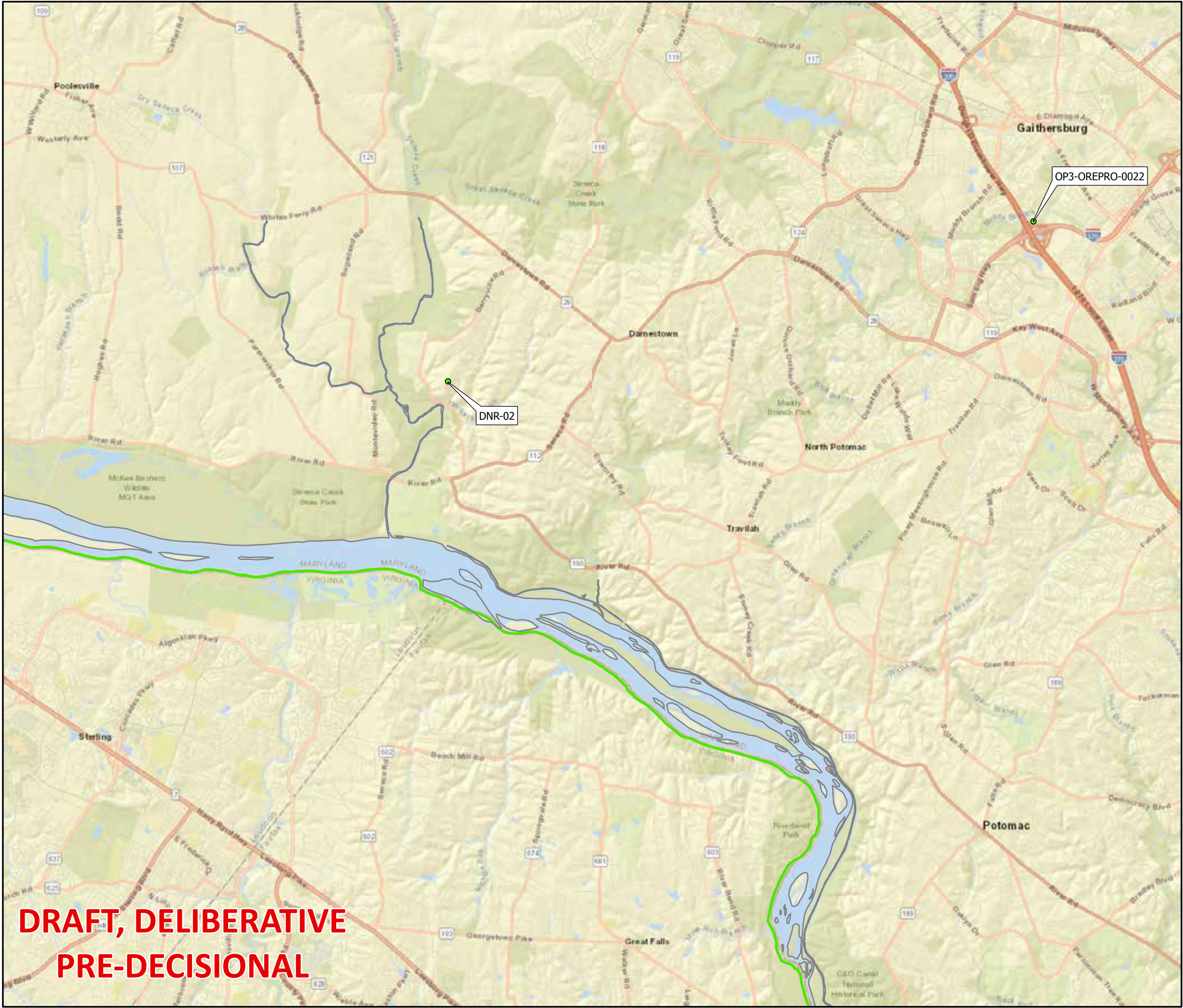
● Recommended Forest Mitigation Site  
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Affected Watershed Boundary  
Patuxent River (021311)  
Washington Metropolitan (021402)

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I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Mitigation Sites**  
**Vicinity Map**

● Recommended Forest Mitigation Site

▭ County Boundaries

Affected Watershed Boundary

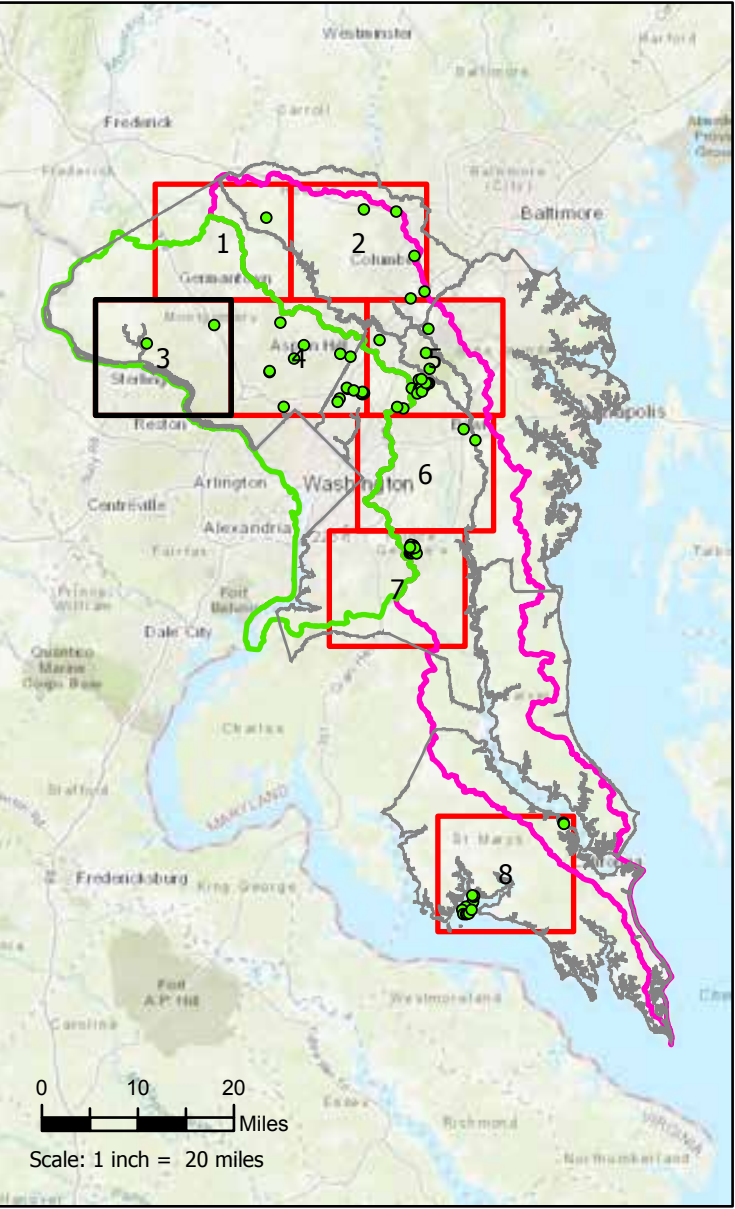
▭ Patuxent River (021311)

▭ Washington Metropolitan (021402)

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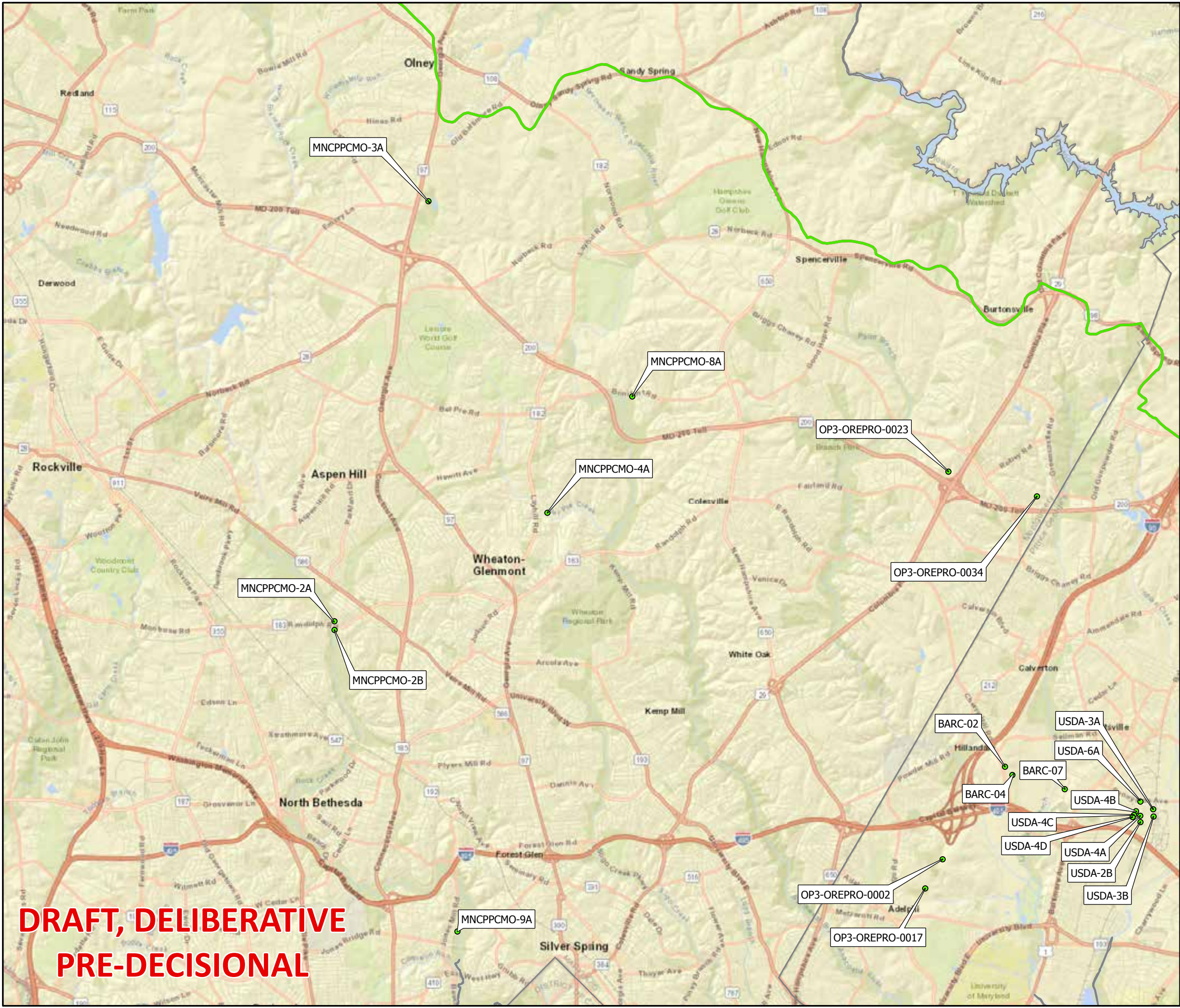
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I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Mitigation Sites  
Vicinity Map**

● Recommended Forest Mitigation Site

▭ County Boundaries

Affected Watershed Boundary

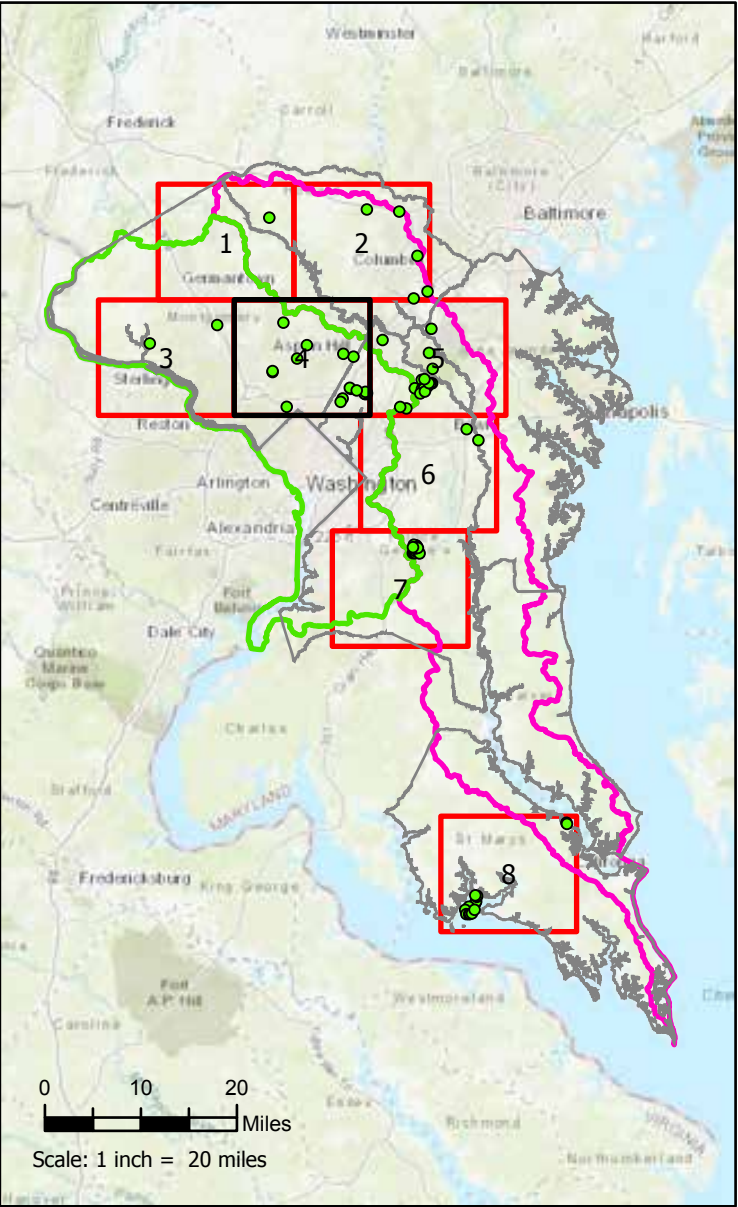
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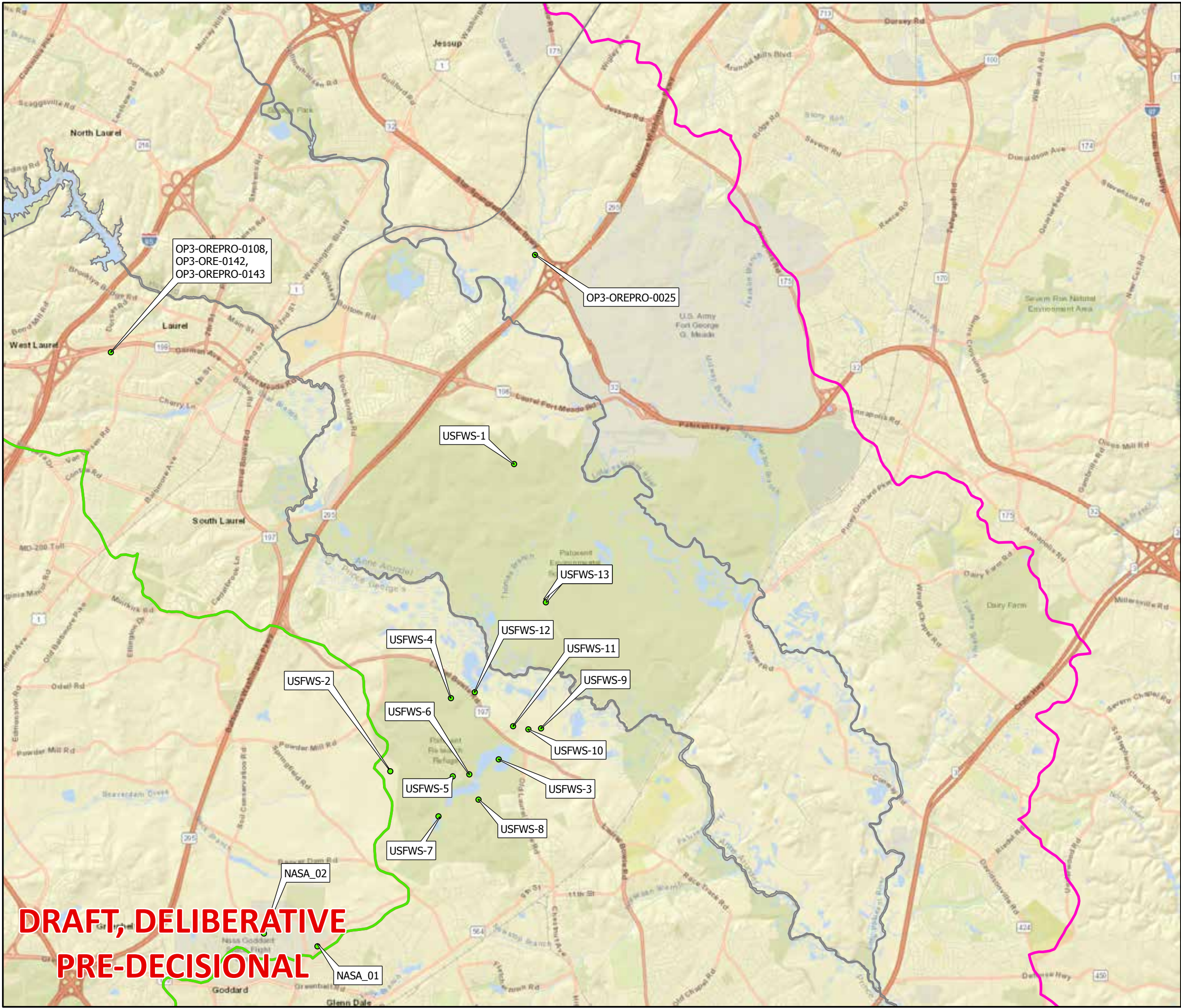
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I-495 & I-270 MLS Reforestation Law Mitigation  
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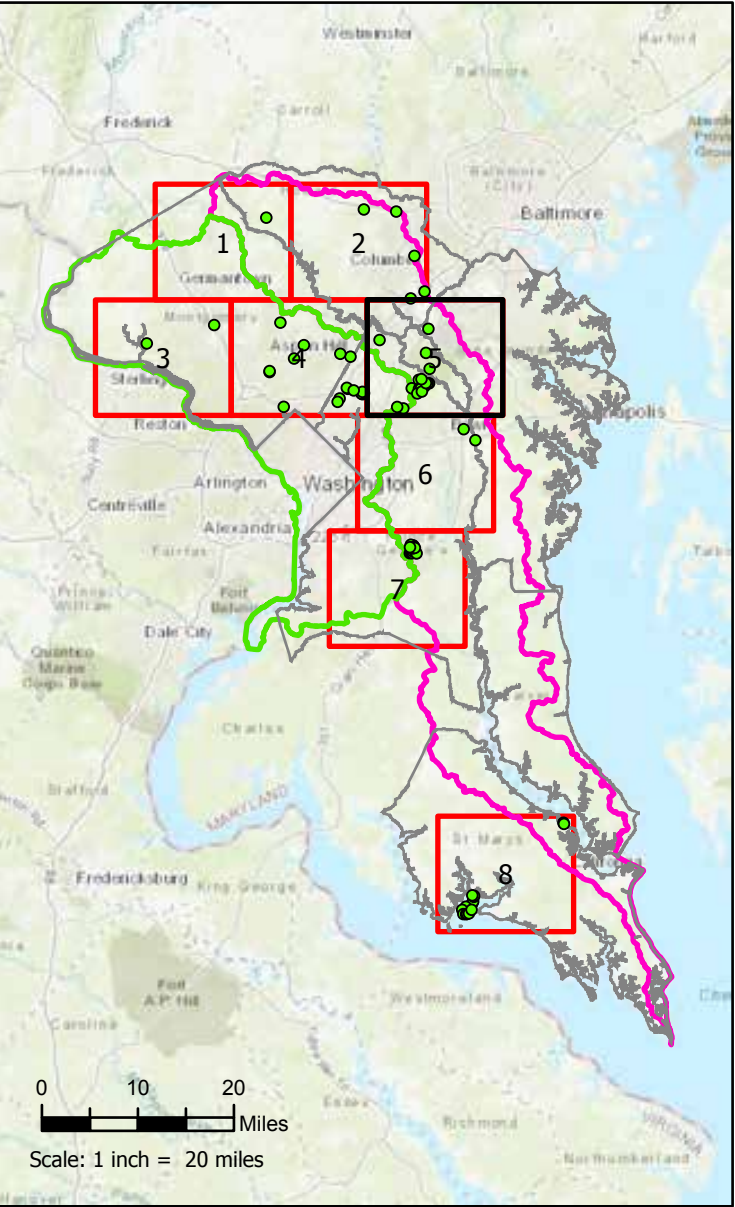
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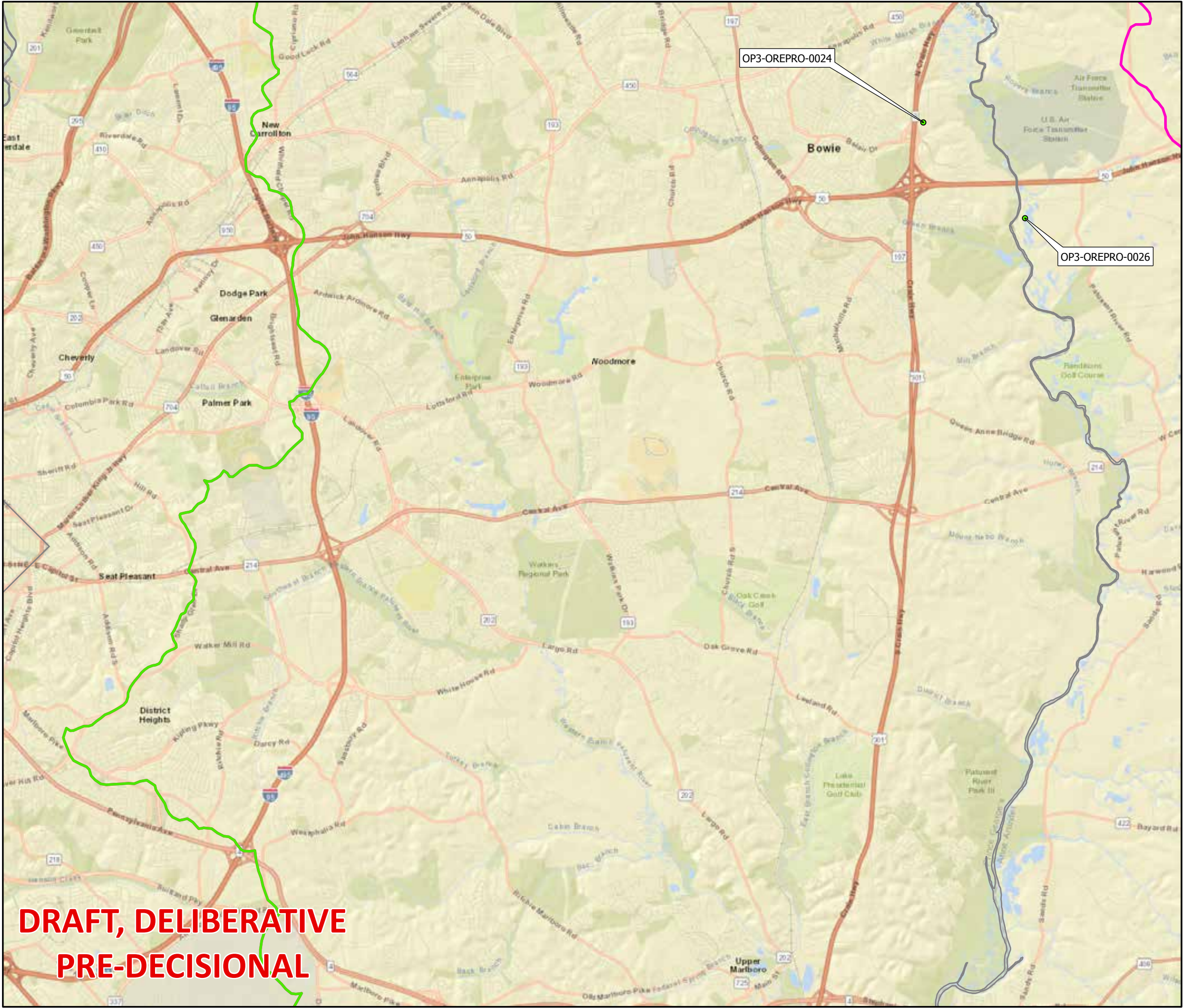
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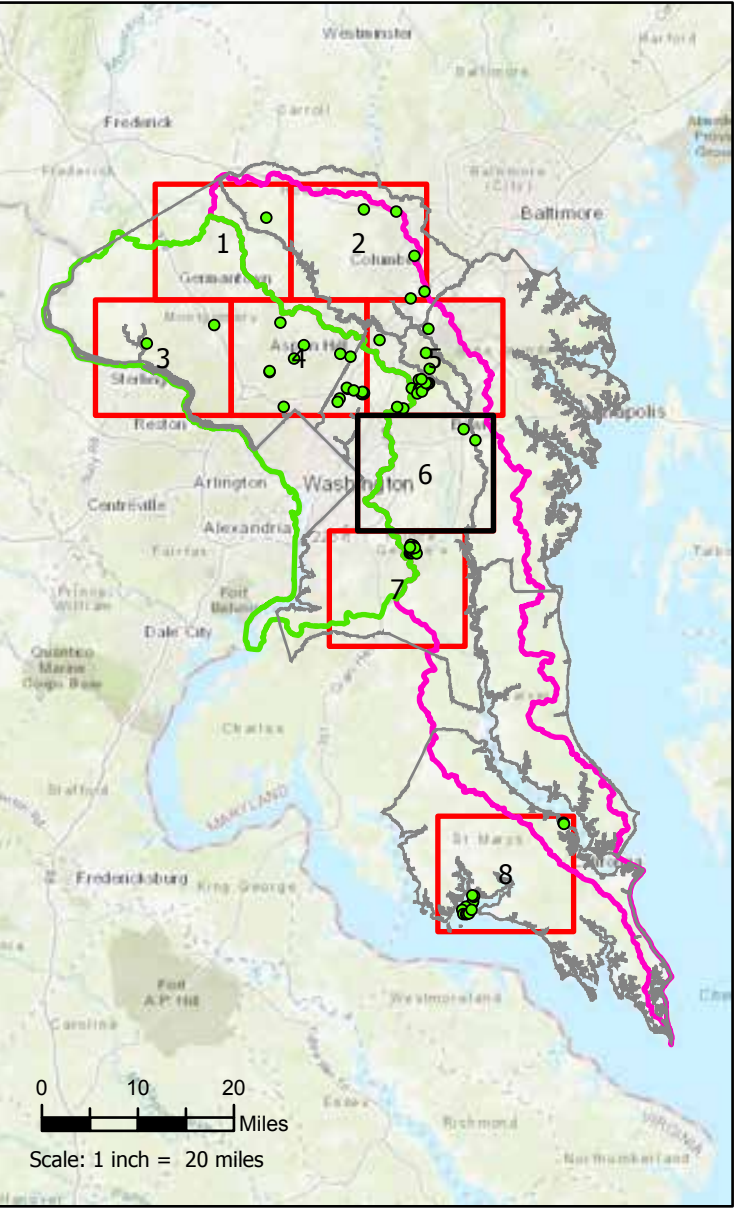


I-495 & I-270 MLS Reforestation Law Mitigation  
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**Vicinity Map**

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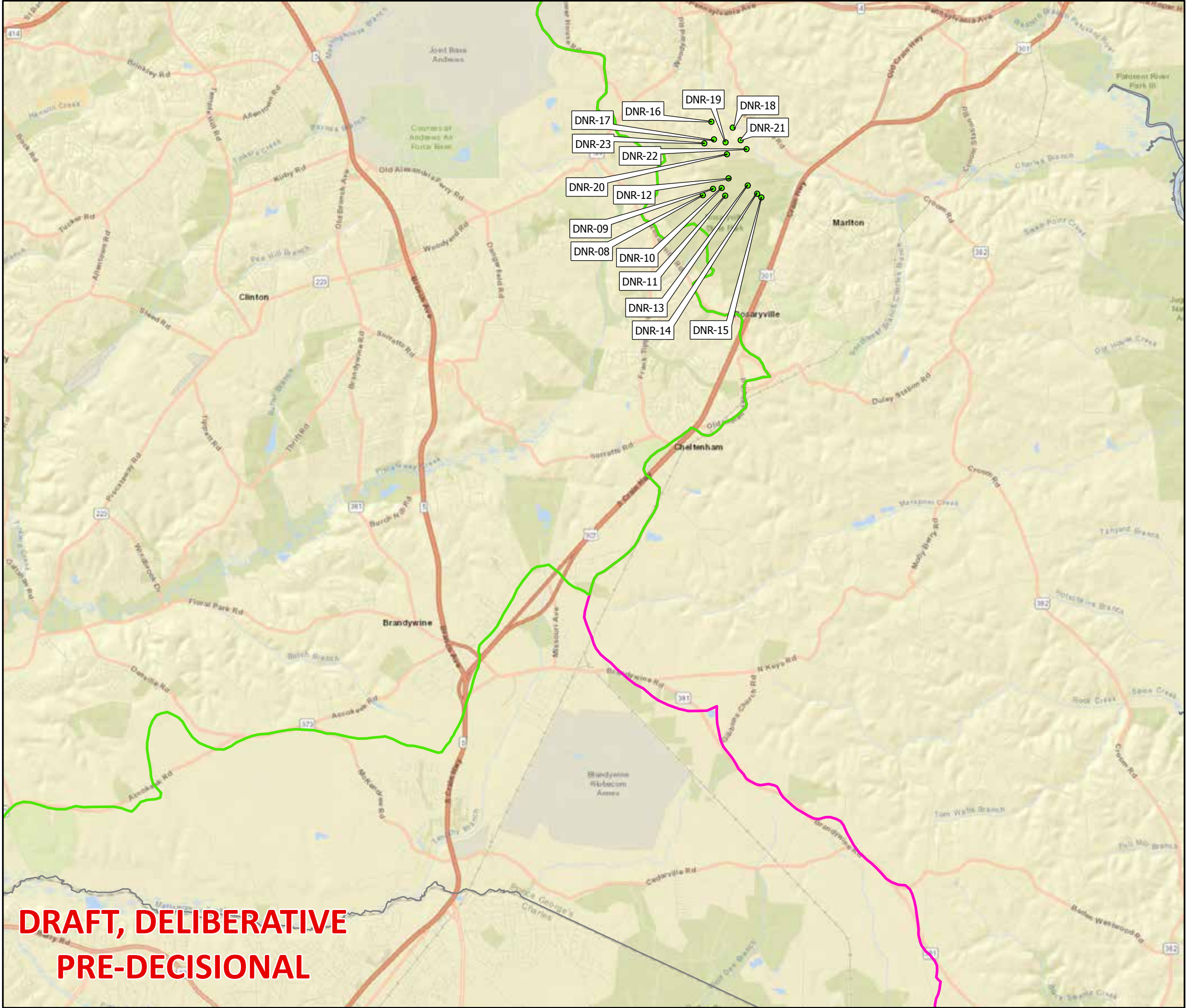
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**PRE-DECISIONAL**





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Mitigation Sites**  
**Vicinity Map**

● Recommended Forest Mitigation Site

County Boundaries

Affected Watershed Boundary

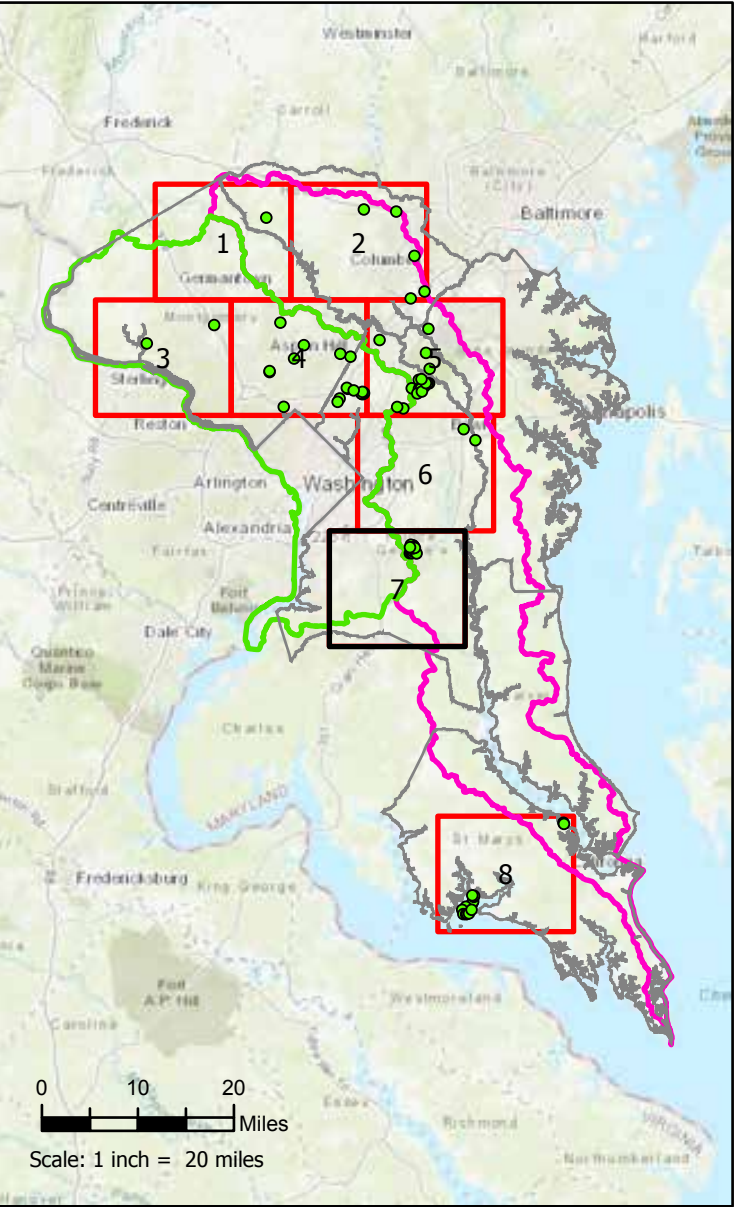
Patuxent River (021311)

Washington Metropolitan (021402)

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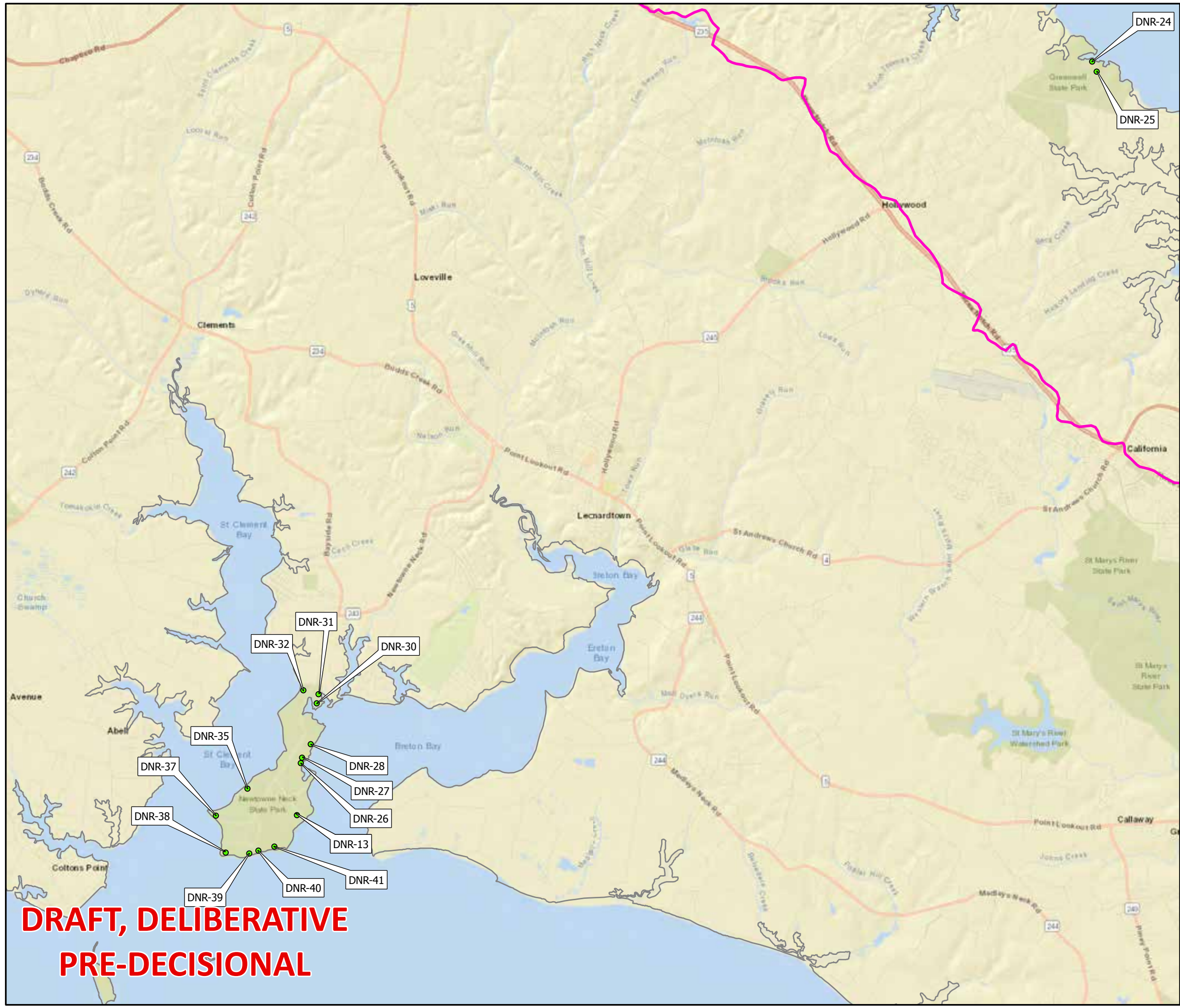
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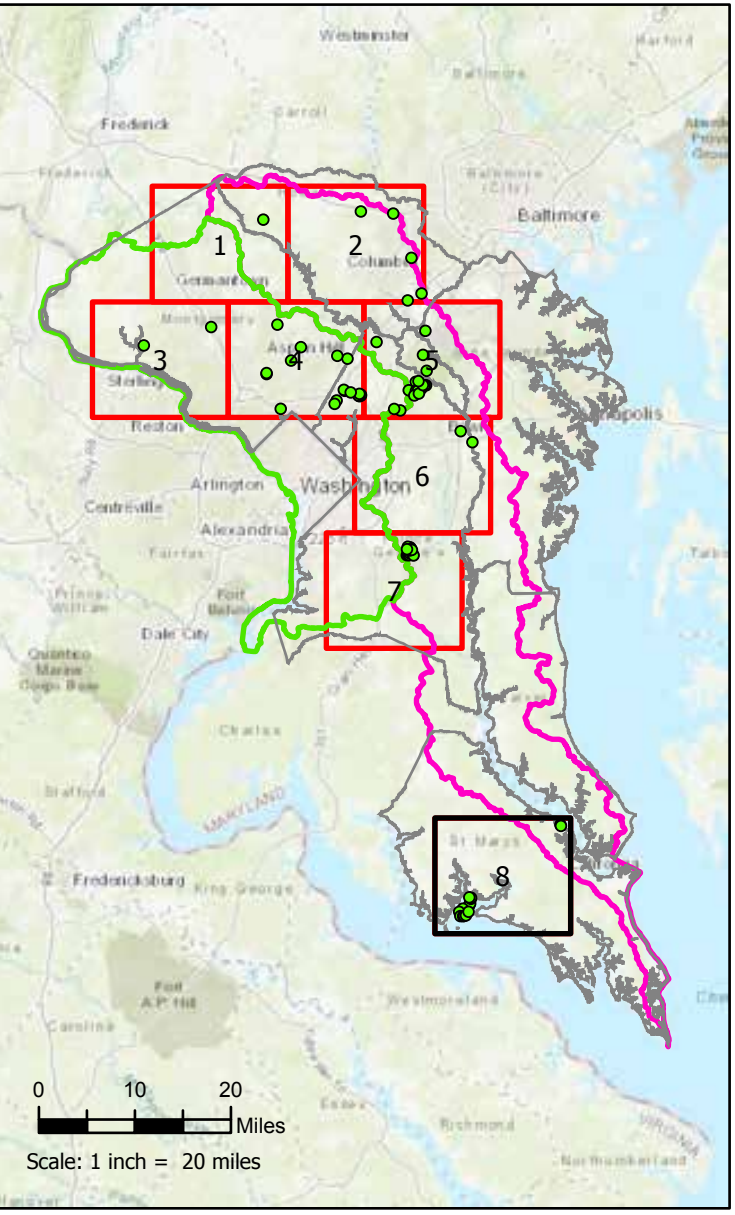


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Mitigation Sites  
Vicinity Map**

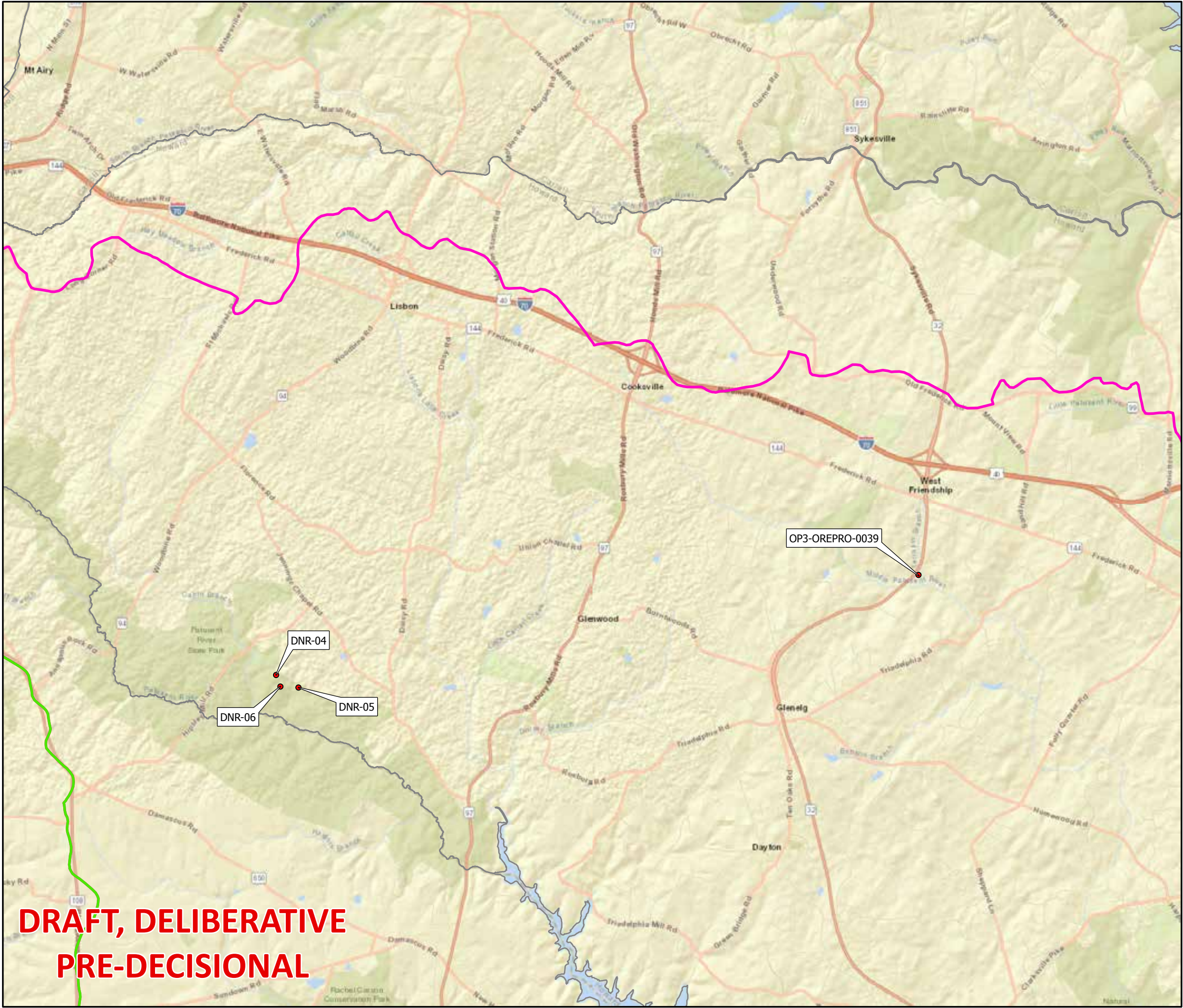
- Recommended Forest Mitigation Site
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- Affected Watershed Boundary
- Patuxent River (021311)
- Washington Metropolitan (021402)

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I-495 & I-270 MLS Reforestation Law Mitigation  
**Dropped Forest Mitigation Sites**  
**Vicinity Map**

● Dropped Forest Mitigation Site

County Boundaries

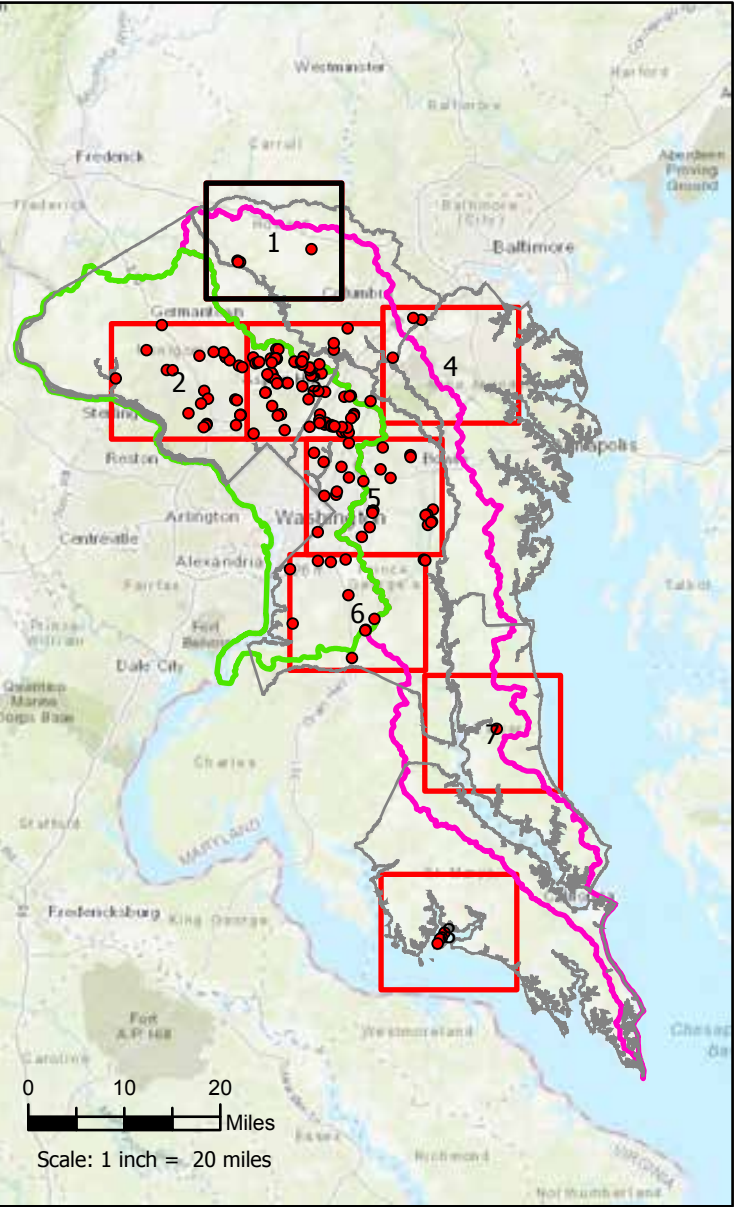
Affected Watershed Boundary

Patuxent River (021311)

Washington Metropolitan (021402)

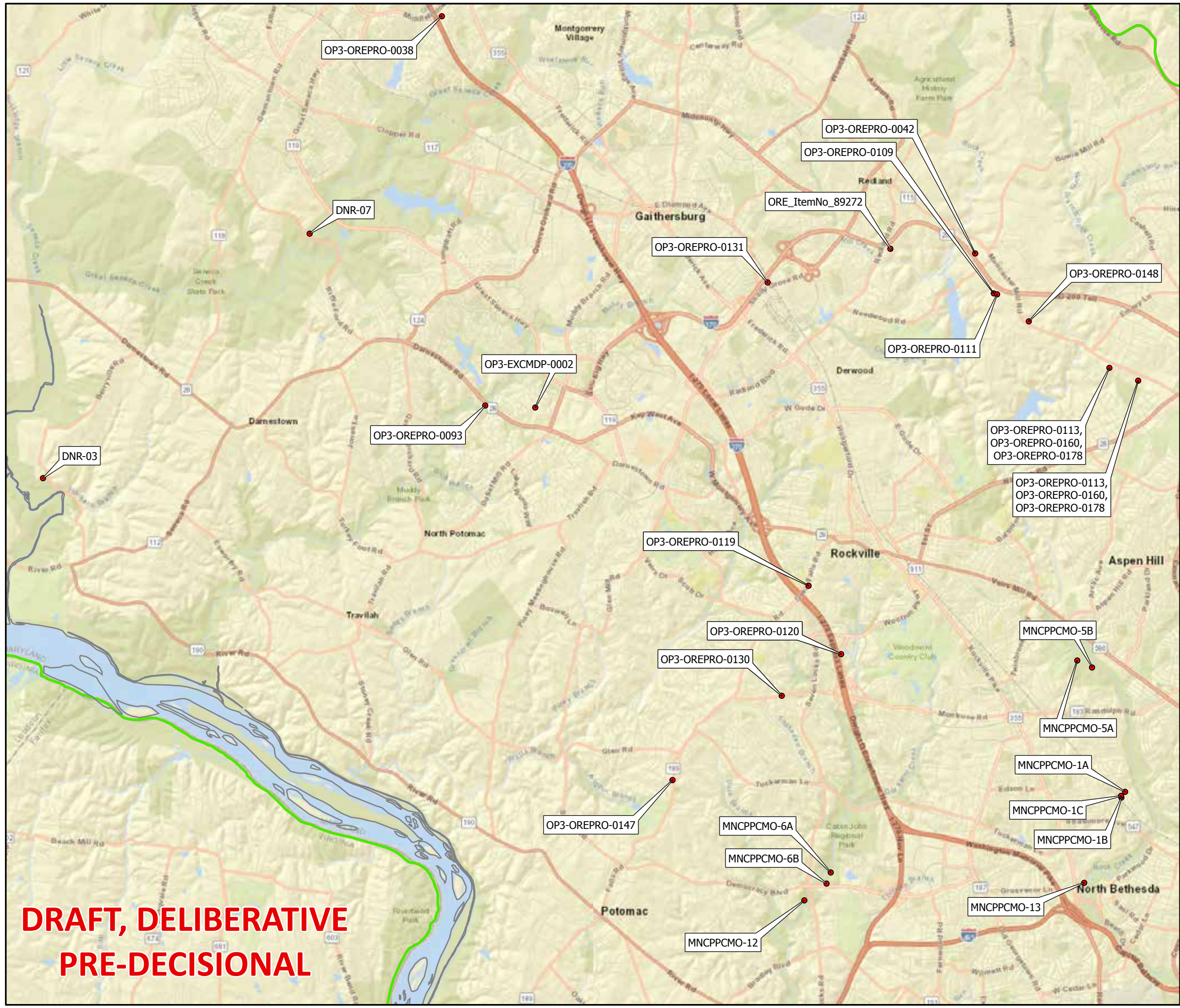
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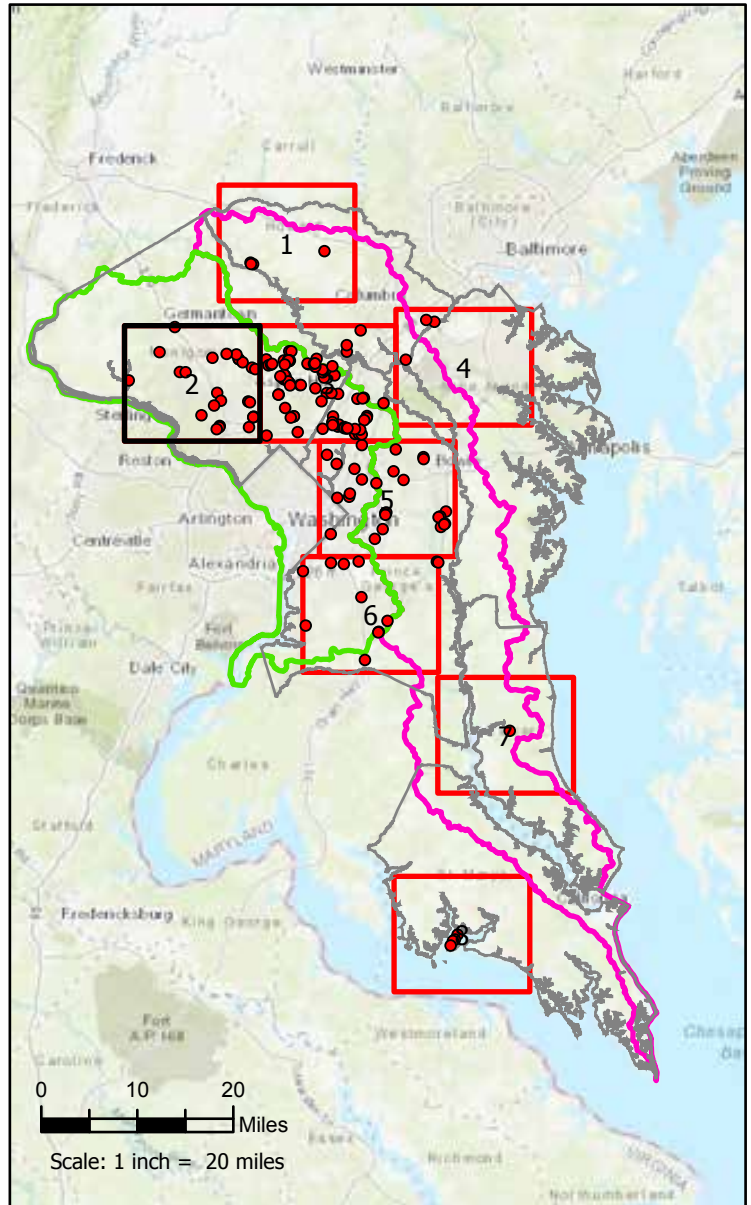
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PRE-DECISIONAL**

I-495 & I-270 MLS Reforestation Law Mitigation  
**Dropped Forest Mitigation Sites  
Vicinity Map**

- Dropped Forest Mitigation Site
- ▭ County Boundaries
- ▭ Affected Watershed Boundary
- ▭ Patuxent River (021311)
- ▭ Washington Metropolitan (021402)

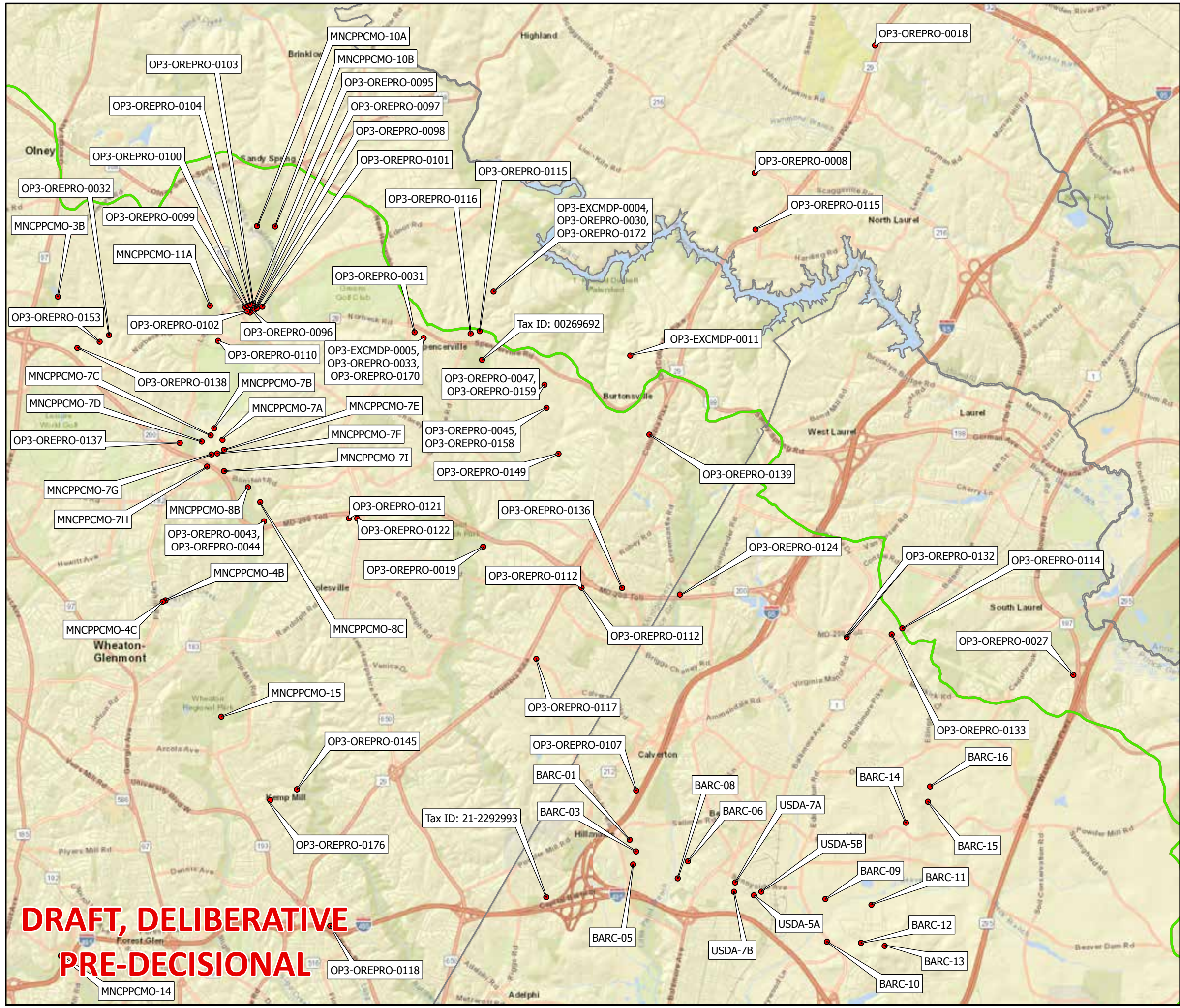
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### I-495 & I-270 MLS Reforestation Law Mitigation Dropped Forest Mitigation Sites Vicinity Map

- Dropped Forest Mitigation Site
- ▭ County Boundaries
- ▭ Affected Watershed Boundary
- ▭ Patuxent River (021311)
- ▭ Washington Metropolitan (021402)

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Scale: 1 inch = 6000 feet

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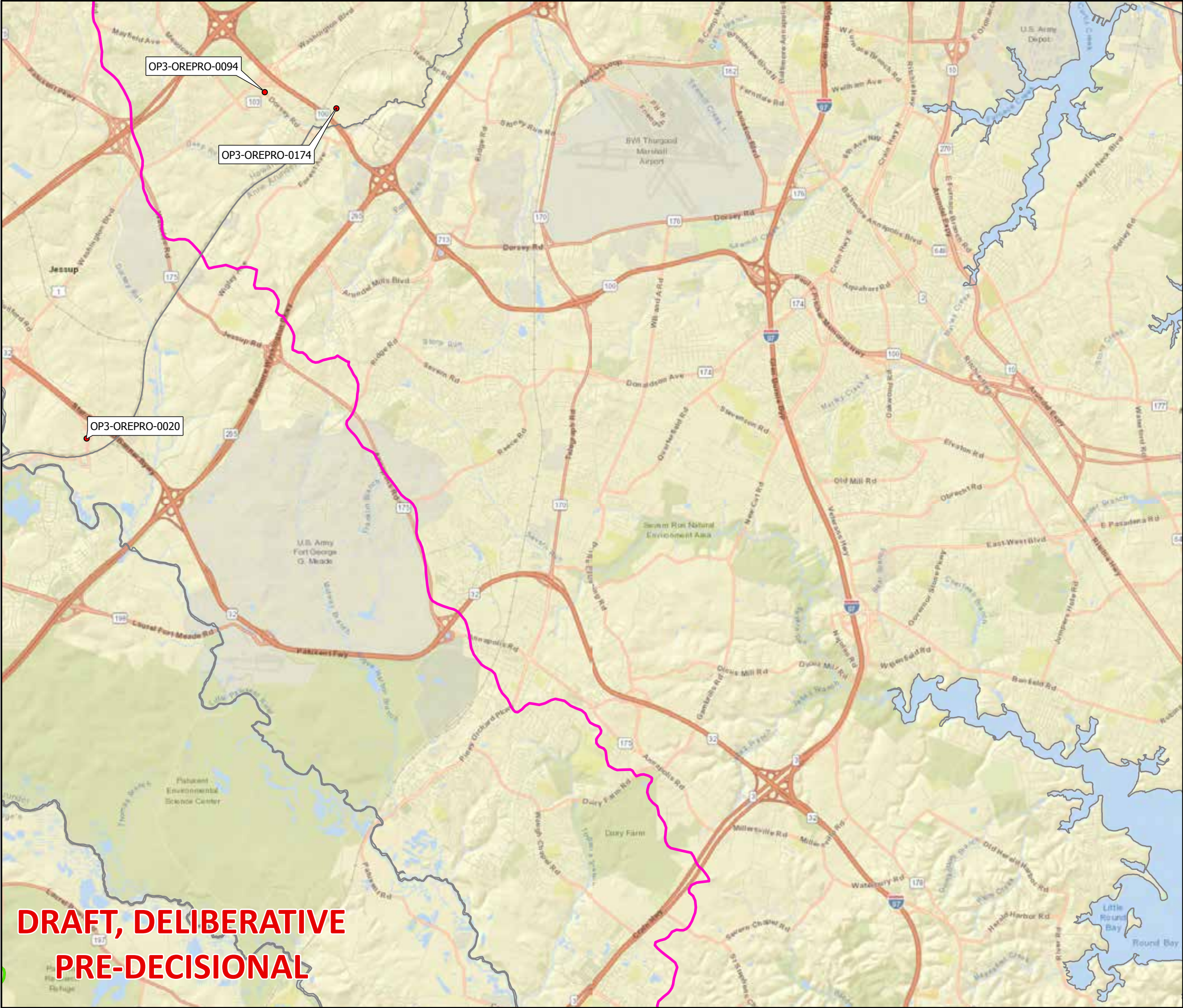
A vicinity map showing the location of the study area within the Washington Metropolitan area. The map includes labels for various locations, such as Washington, D.C., Arlington, Virginia, and the Potomac River. The study area is highlighted with a red box. The map also shows county boundaries, affected watershed boundaries for the Patuxent River (021311) and Washington Metropolitan (021402) watersheds, and a scale bar indicating 1 inch = 20 miles. A north arrow is located in the top right corner.

September 2020

Vicinity Map:  
3 of 8

Logo for the 495 and 270 Managed Lanes Study, featuring the highway shields for I-495 and I-270.





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I-495 & I-270 MLS Reforestation Law Mitigation  
**Dropped Forest Mitigation Sites  
Vicinity Map**

Dropped Forest Mitigation Site

County Boundaries

Affected Watershed Boundary

Patuxent River (021311)

Washington Metropolitan (021402)

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Feet

Scale: 1 inch = 6000 feet

NORTH

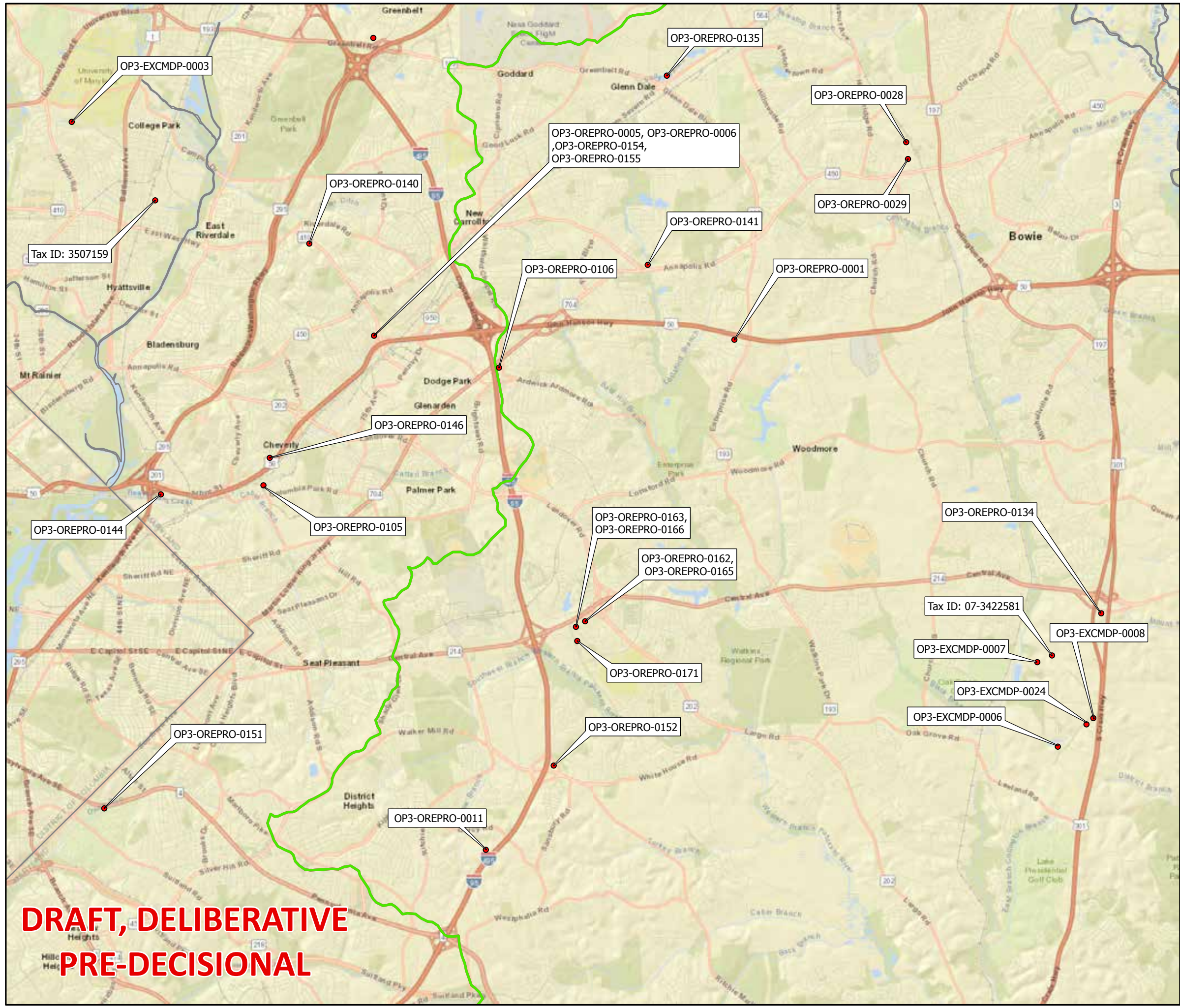
September 2020

Vicinity Map:  
4 of 8

Prepared by CEM 9/17/2020



Prepared by CEM 9/17/2020



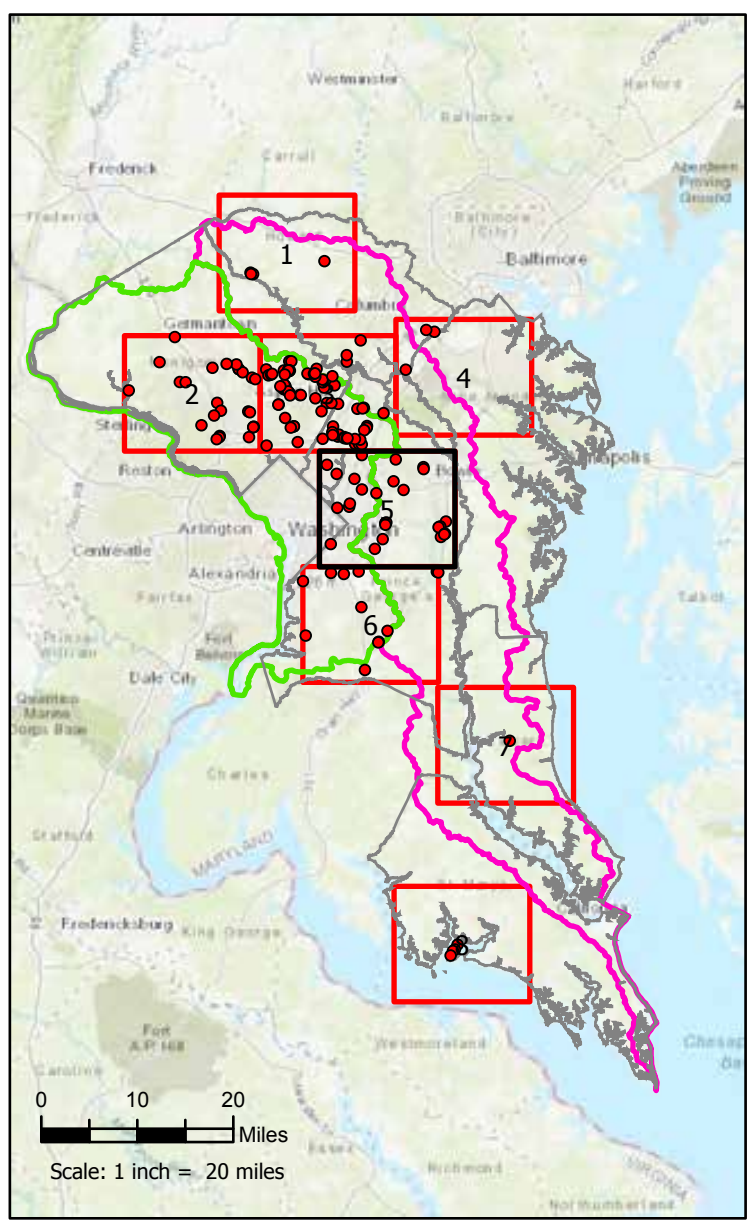
**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

I-495 & I-270 MLS Reforestation Law Mitigation  
**Dropped Forest Mitigation Sites  
Vicinity Map**

- Dropped Forest Mitigation Site
- ▭ County Boundaries
- ▭ Affected Watershed Boundary
- ▭ Patuxent River (021311)
- ▭ Washington Metropolitan (021402)

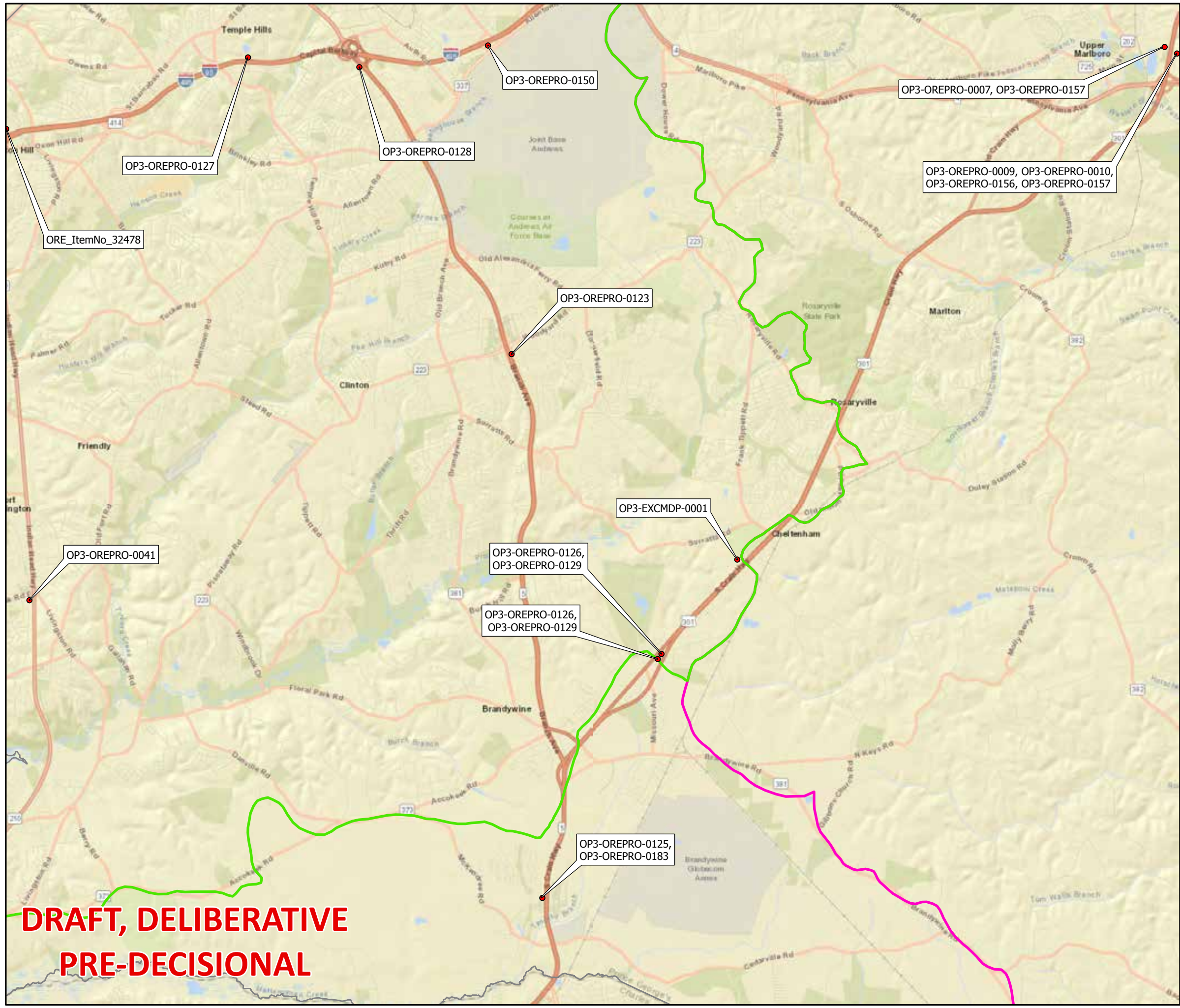
0 3,000 6,000  
Feet  
Scale: 1 inch = 6000 feet

**NORTH**





Prepared by CEM 9/17/2020



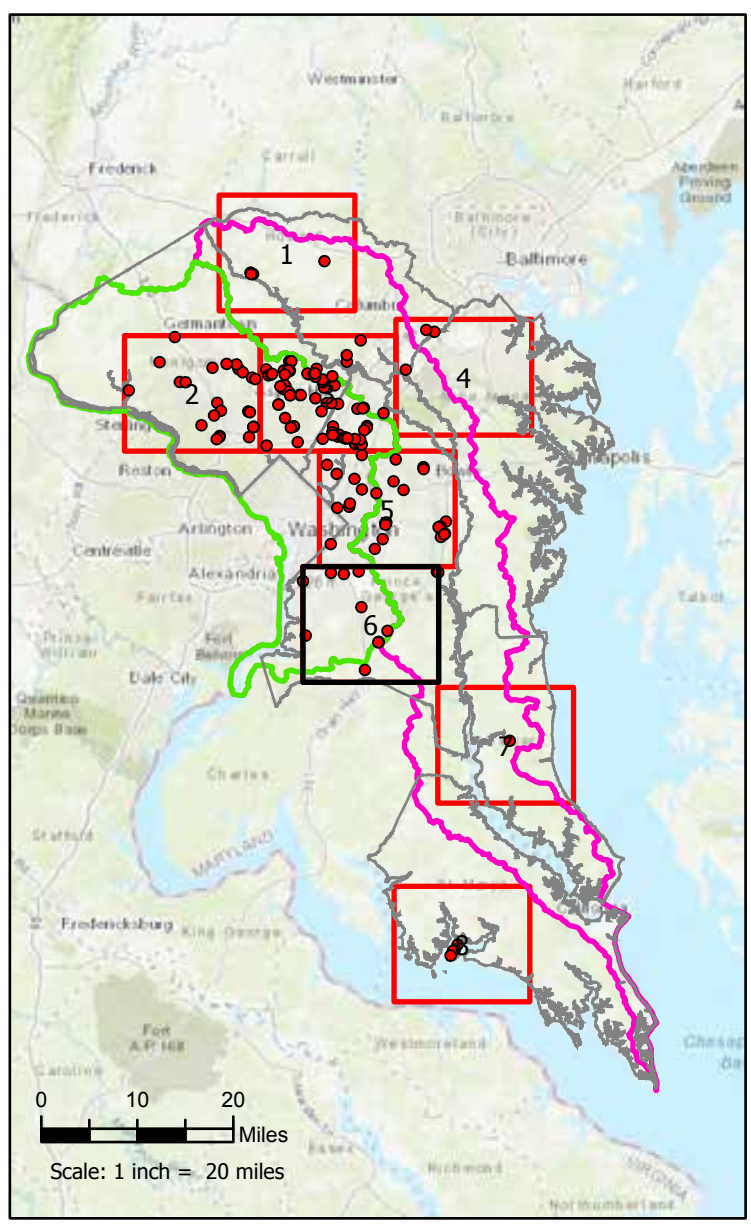
**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

### I-495 & I-270 MLS Reforestation Law Mitigation Dropped Forest Mitigation Sites Vicinity Map

- Dropped Forest Mitigation Site
- ▭ County Boundaries
- ▭ Affected Watershed Boundary
- ▭ Patuxent River (021311)
- ▭ Washington Metropolitan (021402)

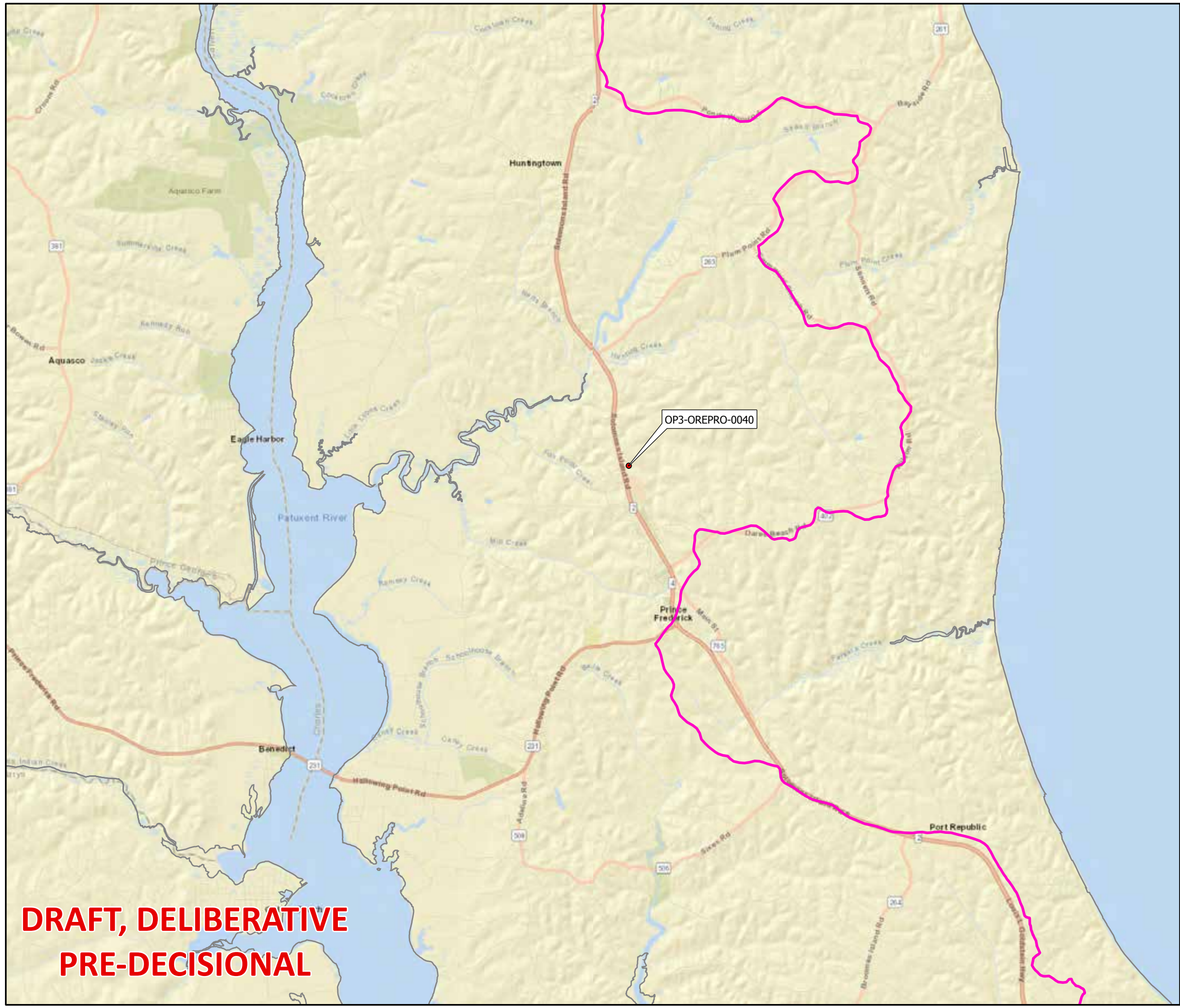
0 3,000 6,000  
Feet  
Scale: 1 inch = 6000 feet

**NORTH**





Prepared by CEM 9/17/2020



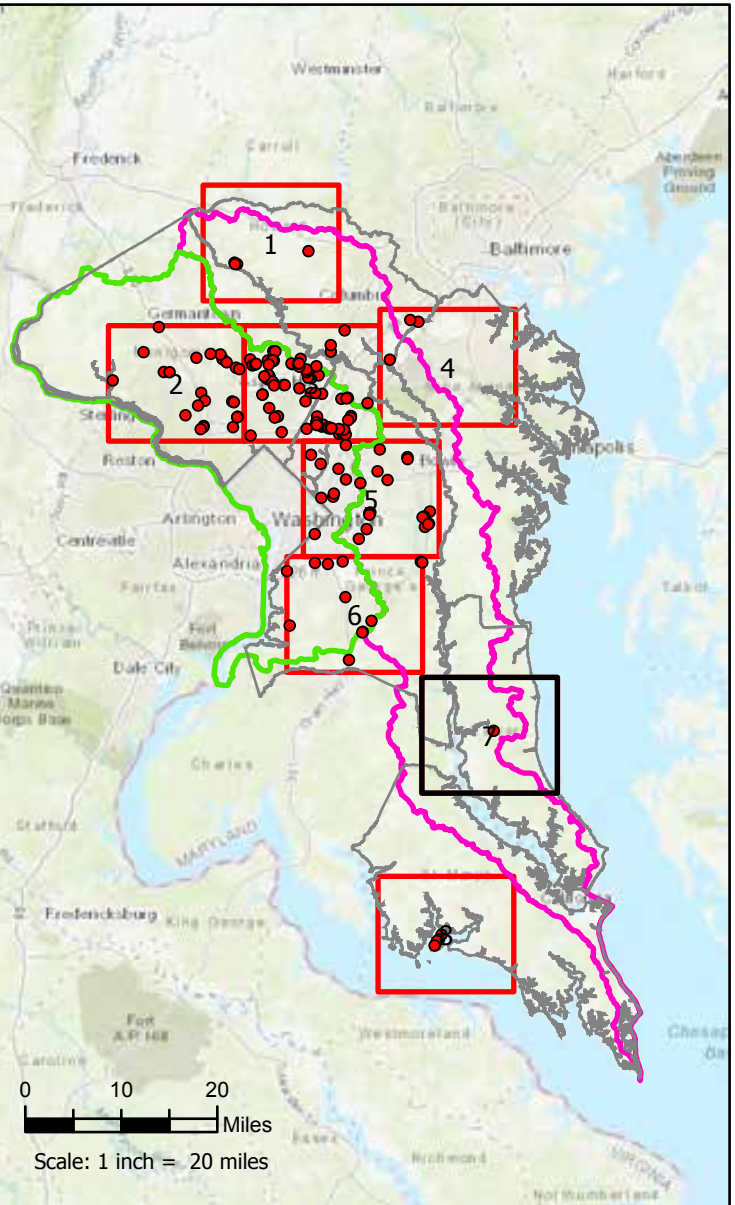
**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

I-495 & I-270 MLS Reforestation Law Mitigation  
**Dropped Forest Mitigation Sites  
Vicinity Map**

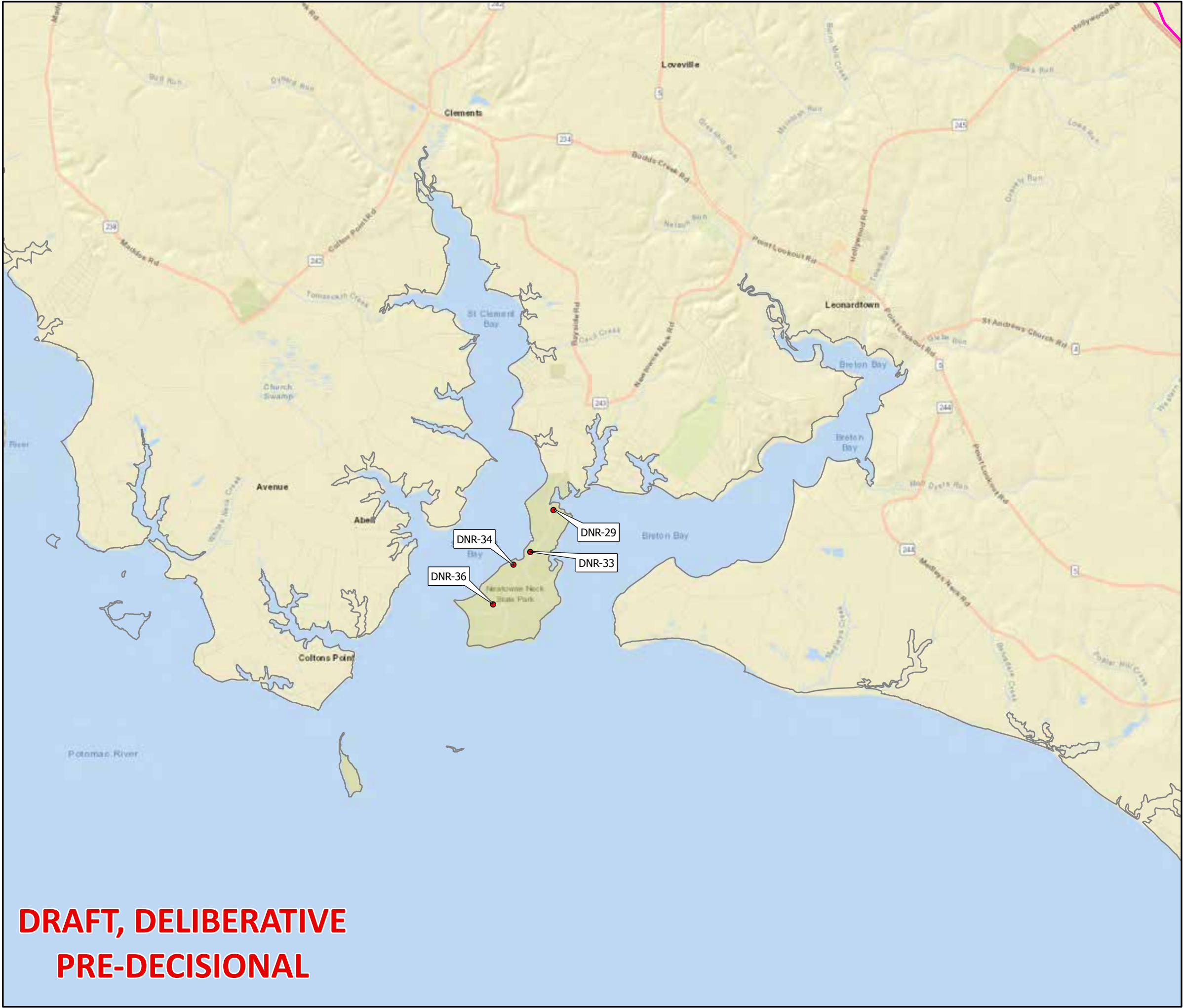
- Dropped Forest Mitigation Site
- ▭ County Boundaries
- Affected Watershed Boundary
- ▭ Patuxent River (021311)
- ▭ Washington Metropolitan (021402)

0 3,000 6,000  
Feet  
Scale: 1 inch = 6000 feet

**NORTH**





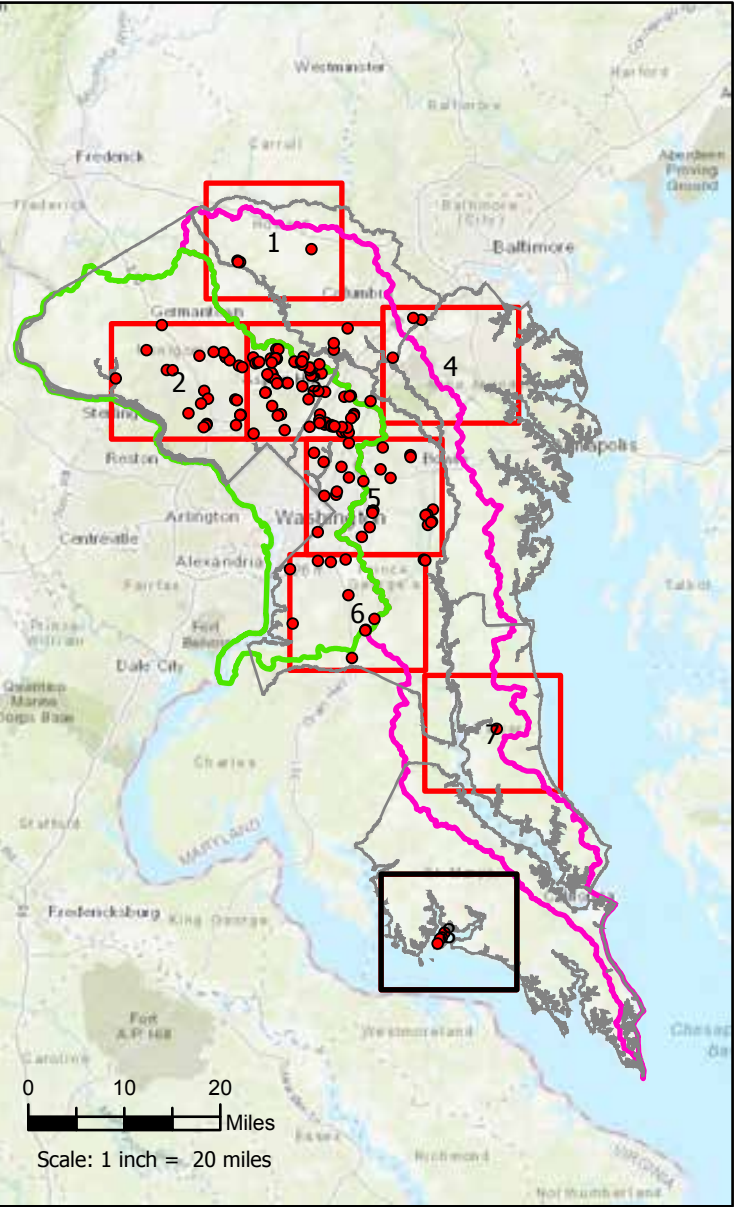


I-495 & I-270 MLS Reforestation Law Mitigation  
**Dropped Forest Mitigation Sites**  
**Vicinity Map**

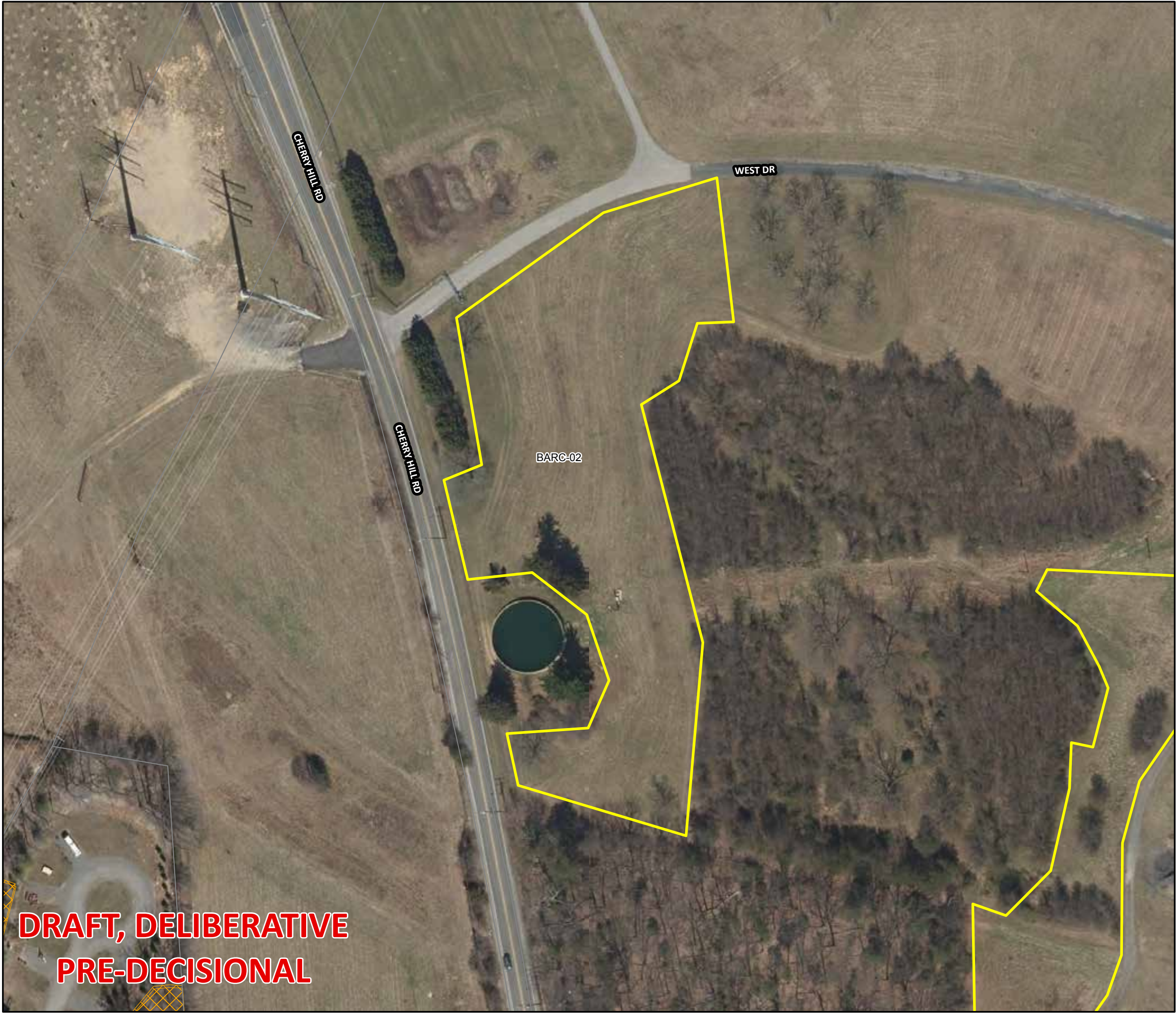
- Dropped Forest Mitigation Site
- ▭ County Boundaries
- ▭ Affected Watershed Boundary
- ▭ Patuxent River (021311)
- ▭ Washington Metropolitan (021402)

0 3,000 6,000  
Feet  
Scale: 1 inch = 6000 feet

**NORTH**







I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Washington Metropolitan Watershed**  
**SITE ID = BARC-02**

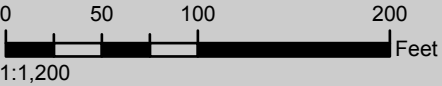
**Property Owner:** USDA  
**Description:** Beltsville Agricultural Research Center  
**Site Acres =** 2.71  
**Total Potential Credit Acres\*** =2.71  
**Plantable Acres\*\*** =2.71  
**Preservable Acres\*** = 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Easily accessible, maintained field.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Washington Metropolitan Watershed**  
**SITE ID = BARC-04**

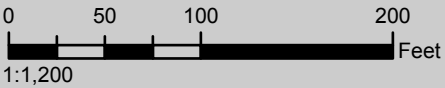
**Property Owner:** USDA  
**Description:** Beltsville Agricultural Research Center  
**Site Acres =** 1.5  
**Total Potential Credit Acres\* =**1.5  
**Plantable Acres\*\* =**1.5  
**Preservable Acres\* =** 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Easily accessible, maintained field. Scattered trees observed.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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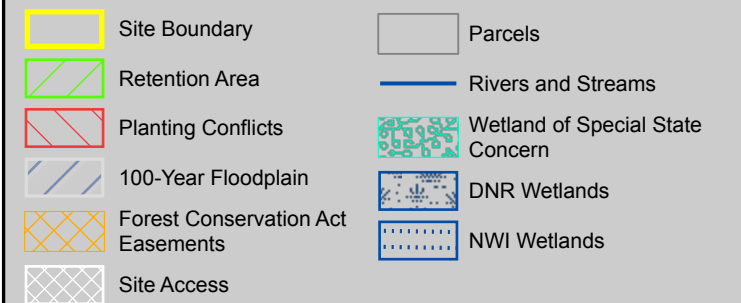


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Washington Metropolitan Watershed**  
**SITE ID = BARC-07**

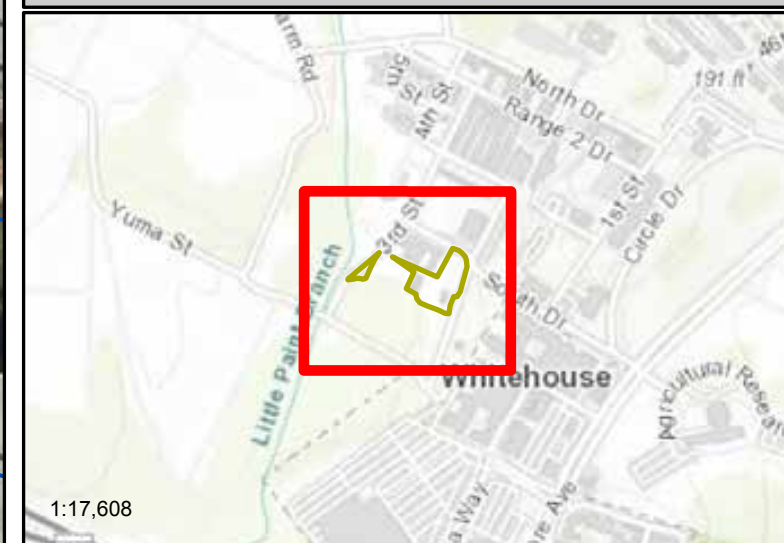
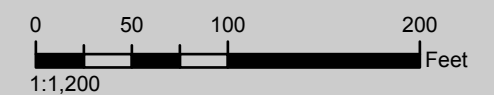
**Property Owner:** USDA  
**Description:** Beltsville Agricultural Research Center  
**Site Acres = 1.9**  
**Total Potential Credit Acres\* = 1.89**  
**Plantable Acres\*\* = 1.89**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Potentially available after BARC completes EA and demolishes buildings.



Aerial Imagery: MD iMap 6 inch



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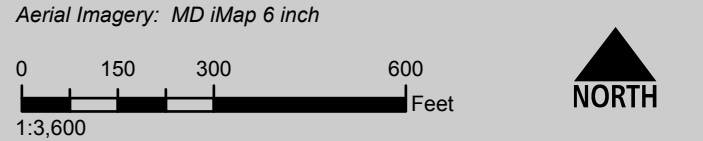
I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Howard County**  
**Patuxent River Watershed**  
**SITE ID = DNR-01**

**Property Owner:** DNR  
**Description:** Patuxent State Park  
**Site Acres =** 15.56  
**Total Potential Credit Acres\* =**15.56  
**Plantable Acres\*\* =**15.56  
**Preservable Acres\* =** 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Old air field donated to DNR. Clear & plant the 1.42 acre invasive bradford pear stand within the site.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



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**DNR-01:** Jones Rd at Patuxent State Park

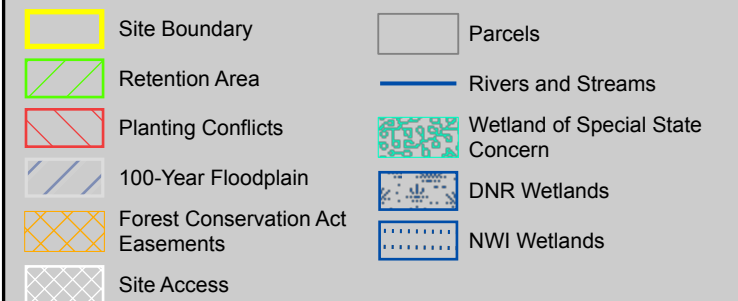


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Montgomery County**  
Washington Metropolitan Watershed  
**SITE ID = DNR-02**

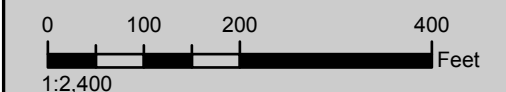
**Property Owner:** DNR  
**Description:** Seneca Creek State Park  
**Site Acres = 5.9**  
**Total Potential Credit Acres\* = 5.9**  
**Plantable Acres\*\* = 5.9**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Preserve existing native trees, clear invasives as needed. Minor herbaceous invasive species observed. Adjacent to historic structure.



Aerial Imagery: MD iMap 6 inch



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**PRE-DECISIONAL**





**DNR-02: Berryville Rd** at Seneca Creek State Park

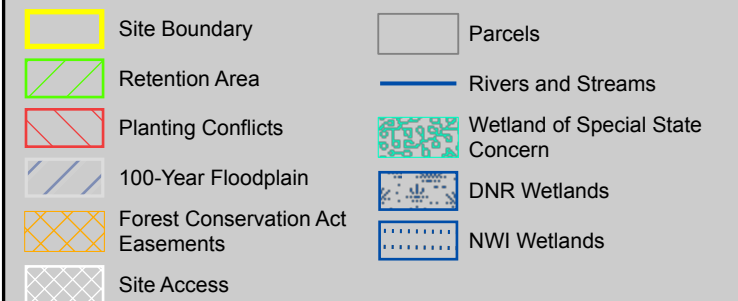


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-08**

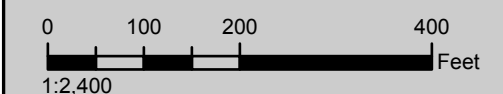
**Property Owner:** DNR  
**Description:** Rosaryville State Park  
**Site Acres =** 5.13  
**Total Potential Credit Acres\* =** 5.13  
**Plantable Acres\*\* =** 5.13  
**Preservable Acres\* =** 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
 \*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Easily accessible, maintained grass field.



Aerial Imagery: MD iMap 6 inch



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**DNR-08:** Rosaryville State Park





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-09**

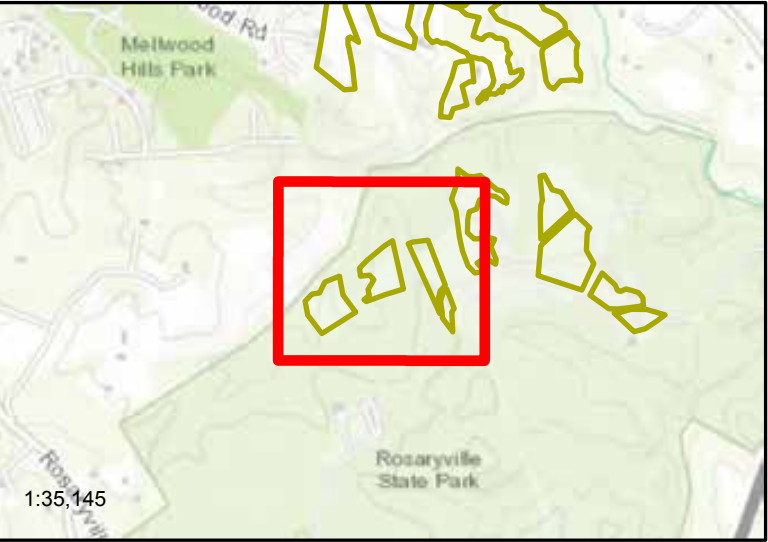
**Property Owner:** DNR  
**Description:** Rosaryville State Park  
**Site Acres = 4.84**  
**Total Potential Credit Acres\* = 4.84**  
**Plantable Acres\*\* = 4.84**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Easily accessible, maintained grass field.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**PRE-DECISIONAL**

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**DNR-09:** Rosaryville State Park

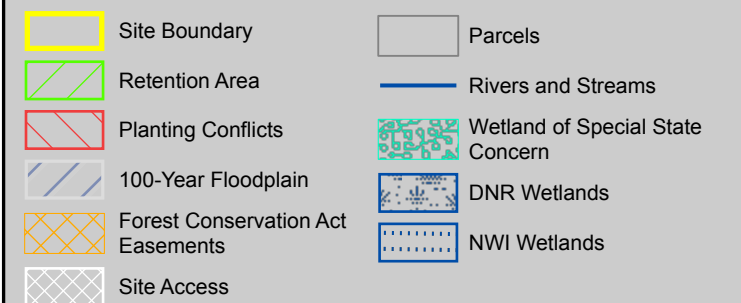


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-10**

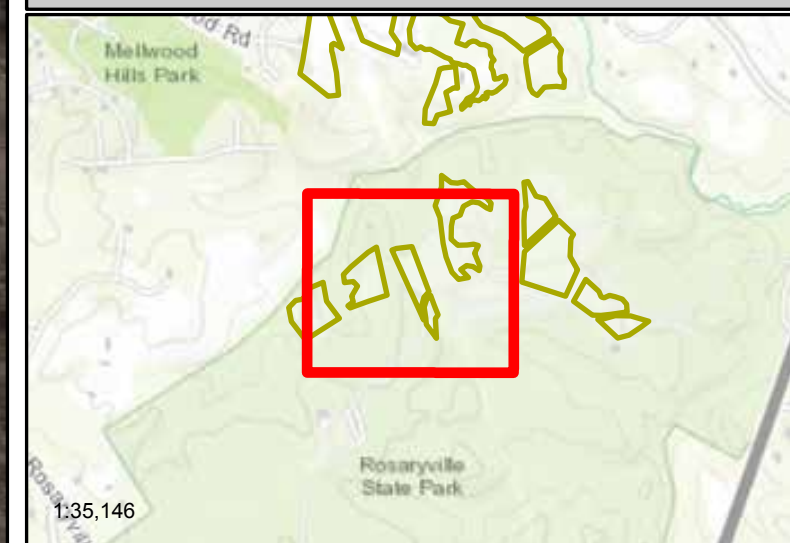
**Property Owner:** DNR  
**Description:** Rosaryville State Park  
**Site Acres =** 3.37  
**Total Potential Credit Acres\* =** 3.37  
**Plantable Acres\*\* =** 3.37  
**Preservable Acres\* =** 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Easily accessible, maintained grass field.



Aerial Imagery: MD iMap 6 inch



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**DNR-10:** Rosaryville State Park





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-11**

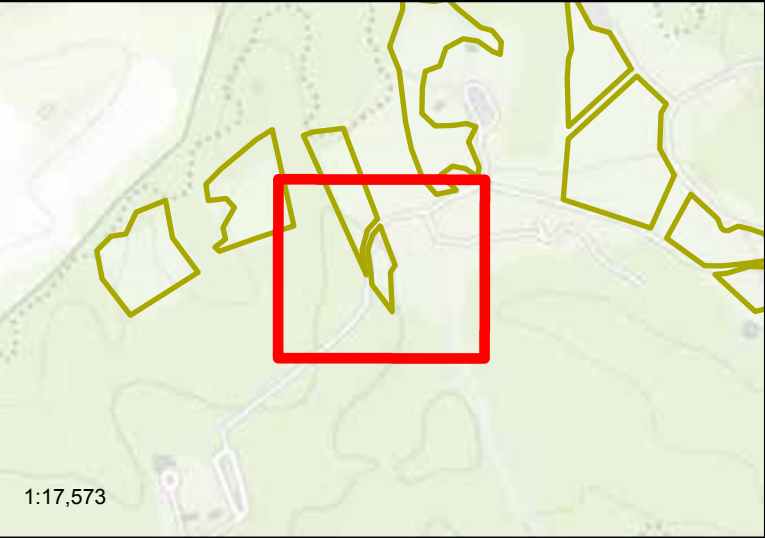
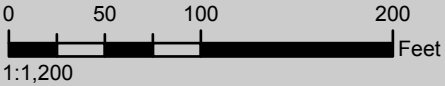
**Property Owner:** DNR  
**Description:** Rosaryville State Park  
**Site Acres =** 1.07  
**Total Potential Credit Acres\* =**1.07  
**Plantable Acres\*\* =**1.07  
**Preservable Acres\* =** 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Easily accessible, maintained grass field.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**PRE-DECISIONAL**





**DNR-11:** Rosaryville State Park

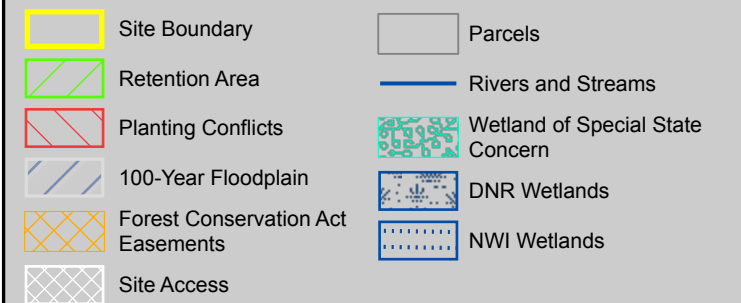


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-12**

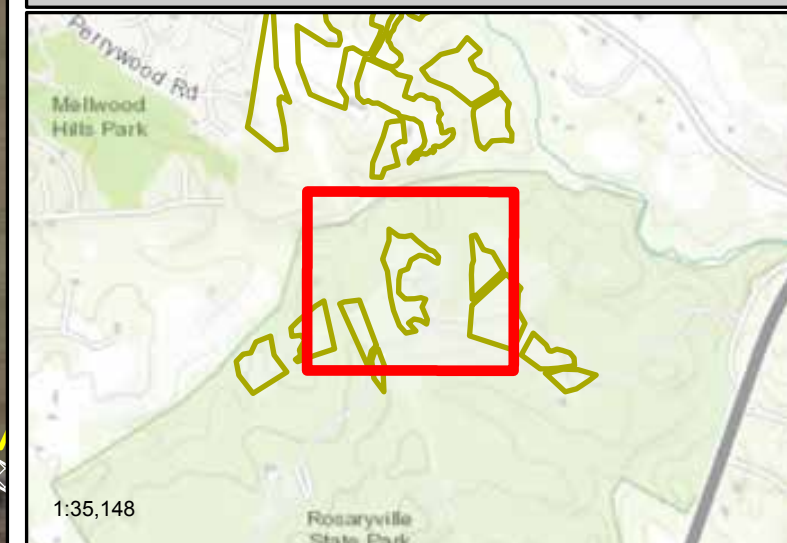
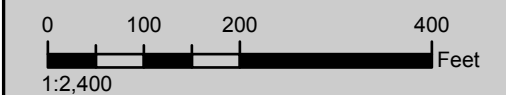
**Property Owner:** DNR  
**Description:** Rosaryville State Park  
**Site Acres = 7.53**  
**Total Potential Credit Acres\* = 7.53**  
**Plantable Acres\*\* = 7.53**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
 \*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Easily accessible, maintained grass field.



Aerial Imagery: MD iMap 6 inch



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**DNR-12:** Rosaryville State Park

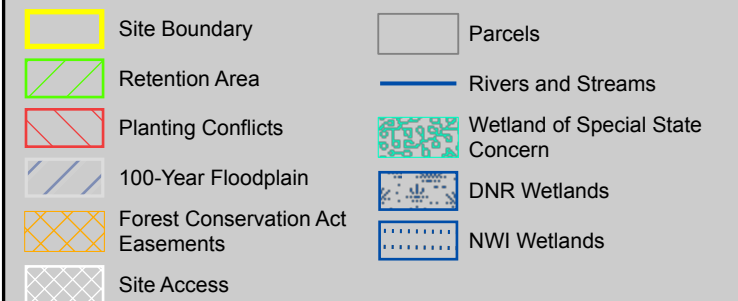


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-13**

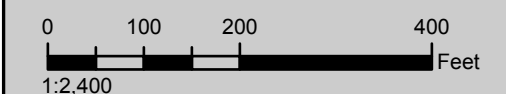
**Property Owner:** DNR  
**Description:** Rosaryville State Park  
**Site Acres =** 12.35  
**Total Potential Credit Acres\* =**12.35  
**Plantable Acres\*\* =**12.35  
**Preservable Acres\* =** 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
 \*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Easily accessible, maintained grass field.



Aerial Imagery: MD iMap 6 inch



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**DNR-13:** Rosaryville State Park



Prepared by CEM 9/18/2020

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I-495 & I-270 MLS Reforestation Law Mitigation

**Recommended Forest Planting Site**

**Prince George's County**

**Patuxent River Watershed**

**SITE ID = DNR-14**

Property Owner: DNR  
Description: Rosaryville State Park  
Site Acres = 3.3  
Total Potential Credit Acres\* =3.3  
Plantable Acres\*\* =3.3  
Preservable Acres\* = 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Easily accessible, maintained grass field. Potential wet swale/basin located in the north central portion of the site.

Site Boundary	Parcels
Retention Area	Rivers and Streams
Planting Conflicts	Wetland of Special State Concern
100-Year Floodplain	DNR Wetlands
Forest Conservation Act Easements	NWI Wetlands
Site Access	

Aerial Imagery: MD iMap 6 inch

0 100 200 400 Feet

1:2,400

NORTH

1:35,149

September 2020

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**DNR-14:** Rosaryville State Park





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-15**

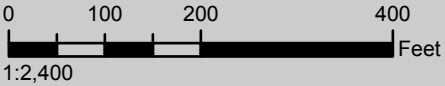
**Property Owner:** DNR  
**Description:** Rosaryville State Park  
**Site Acres =** 2.12  
**Total Potential Credit Acres\* =**2.12  
**Plantable Acres\*\* =**2.12  
**Preservable Acres\* =** 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Easily accessible, maintained grass field.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



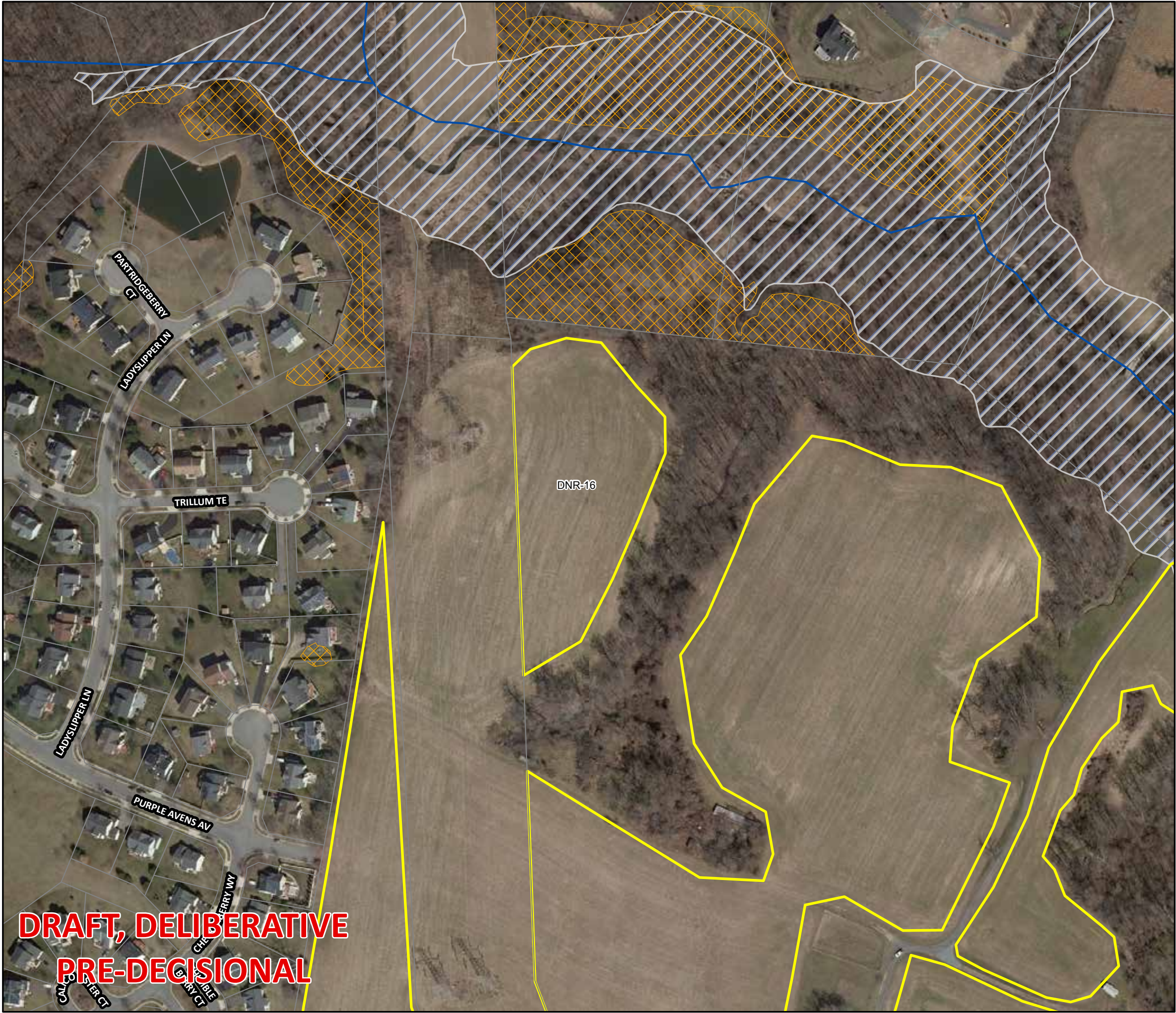
**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**





**DNR-15:** Rosaryville State Park





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-16**

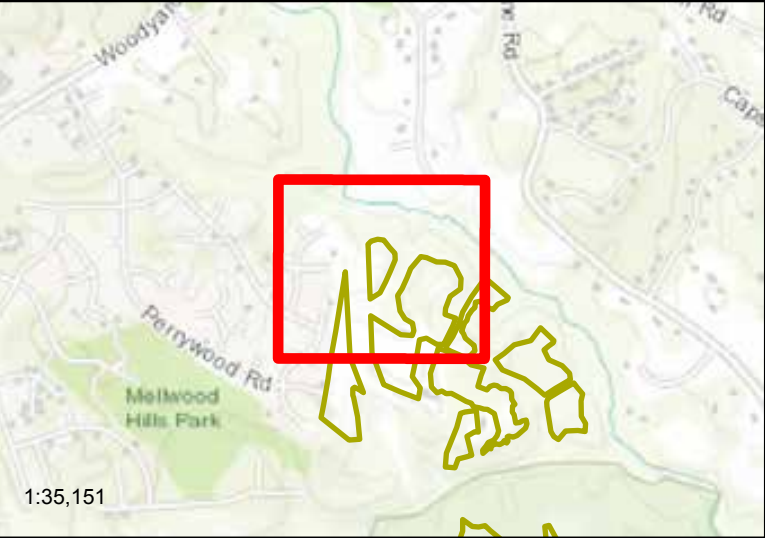
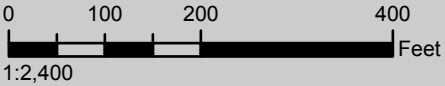
**Property Owner:** Wood William C. Et Al, DNR  
**Description:** Wood Property  
**Site Acres = 3.55**  
**Total Potential Credit Acres\* = 3.55**  
**Plantable Acres\*\* = 3.55**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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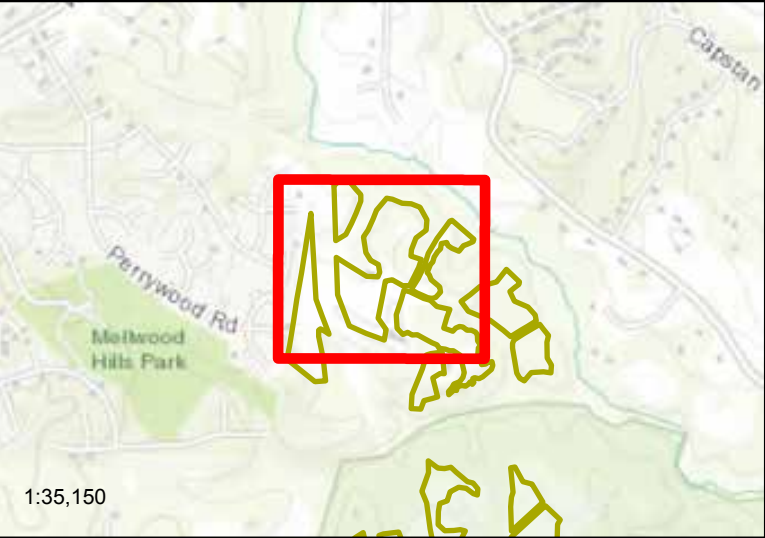
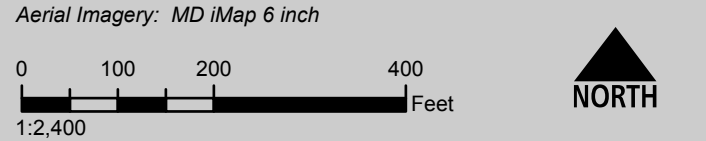


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-17**

**Property Owner:** Wood William C. Et Al, DNR  
**Description:** Wood Property  
**Site Acres = 20.33**  
**Total Potential Credit Acres\* = 20.33**  
**Plantable Acres\*\* = 20.33**  
**Preservable Acres\* = 0**

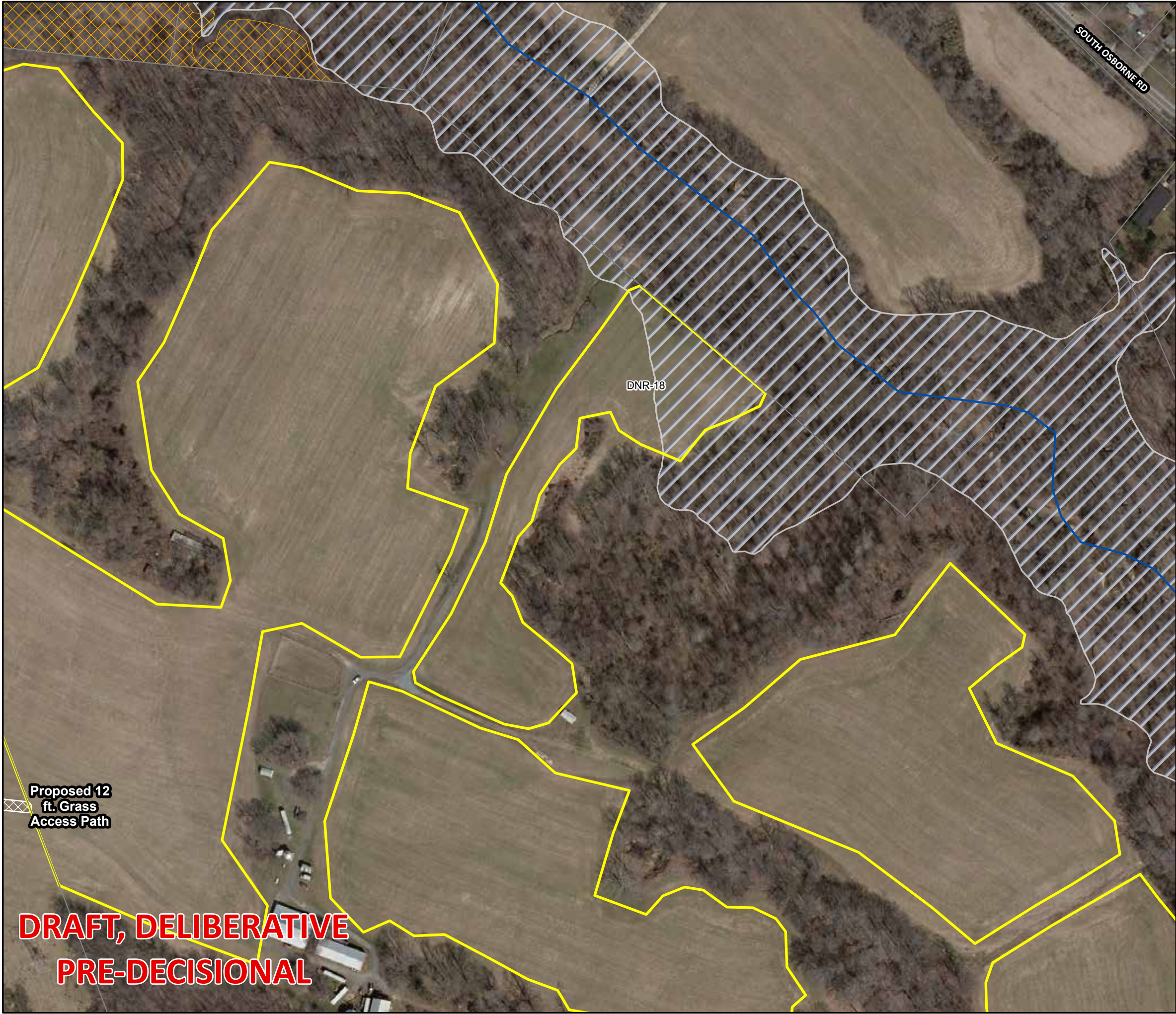
\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



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I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-18**

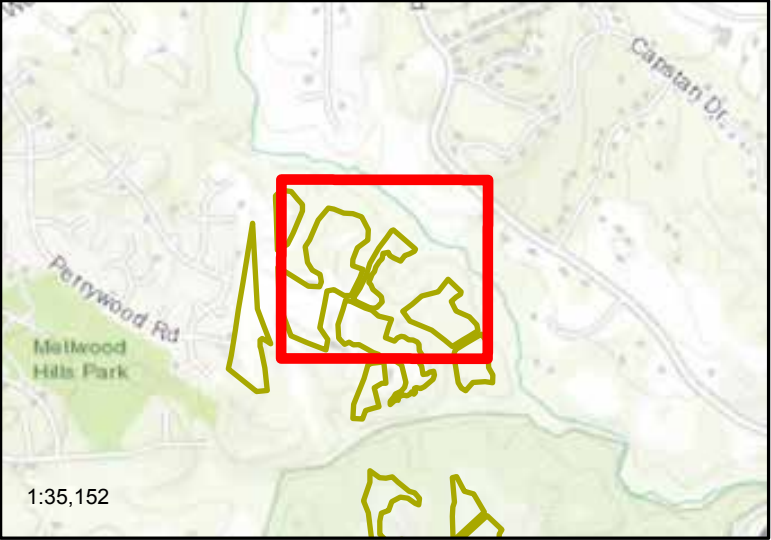
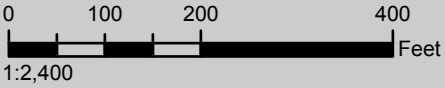
**Property Owner:** Wood William C. Et Al, DNR  
**Description:** Wood Property  
**Site Acres = 4.12**  
**Total Potential Credit Acres\* = 4.12**  
**Plantable Acres\*\* = 4.12**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



**Proposed 12  
ft. Grass  
Access Path**

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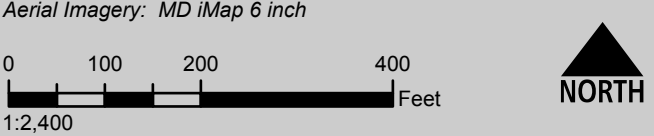
I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-19**

**Property Owner:** Wood William C. Et Al, DNR  
**Description:** Wood Property  
**Site Acres = 11**  
**Total Potential Credit Acres\* = 11**  
**Plantable Acres\*\* = 11**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



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I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-20**

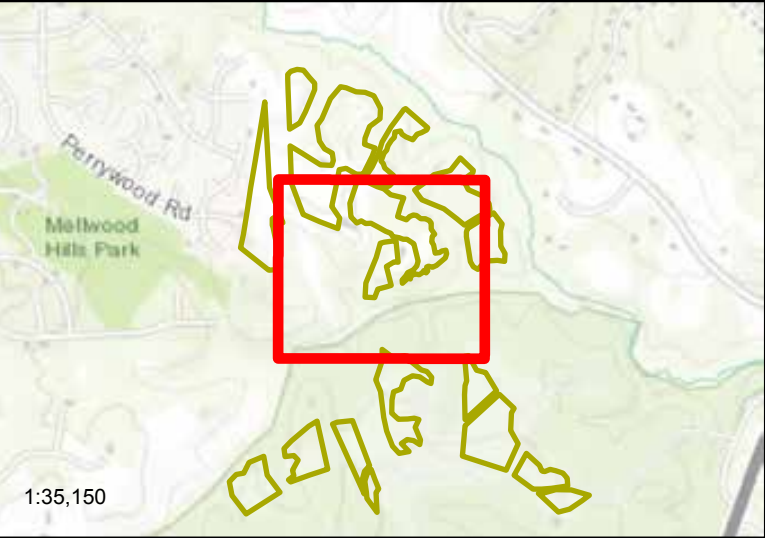
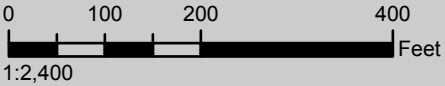
**Property Owner:** Wood William C. Et Al, DNR  
**Description:** Wood Property  
**Site Acres = 3.27**  
**Total Potential Credit Acres\* = 3.27**  
**Plantable Acres\*\* = 3.27**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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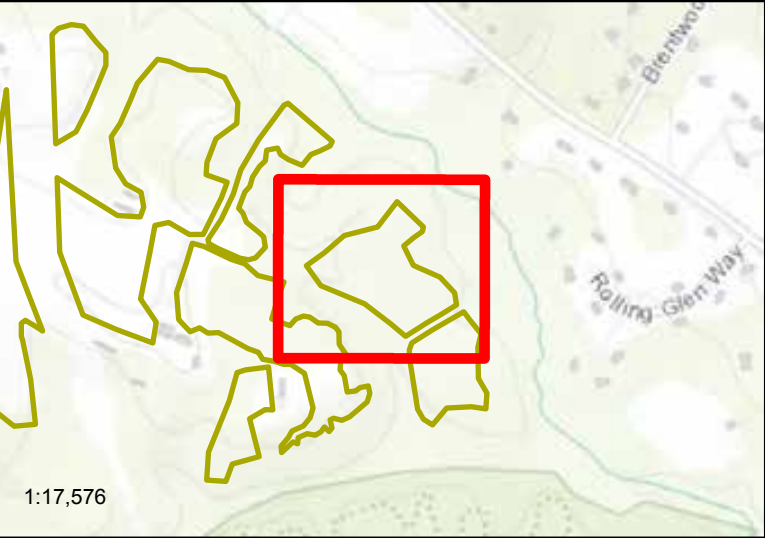
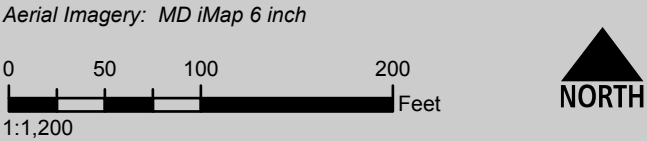


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-21**

**Property Owner:** Wood William C. Et Al, DNR  
**Description:** Wood Property  
**Site Acres = 7.72**  
**Total Potential Credit Acres\* = 7.72**  
**Plantable Acres\*\* = 7.72**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



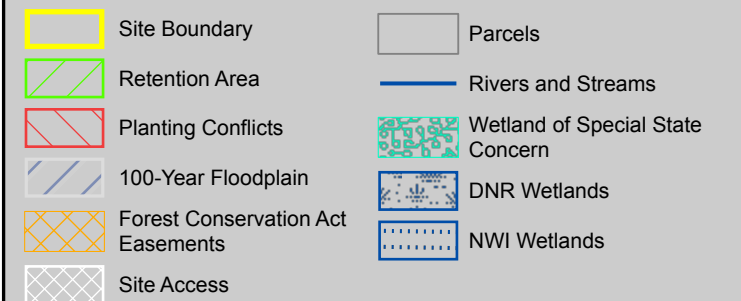


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-22**

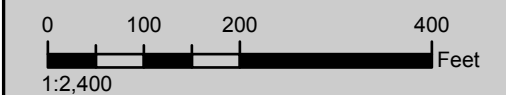
**Property Owner:** Wood William C. Et Al, DNR  
**Description:** Wood Property  
**Site Acres = 4.76**  
**Total Potential Credit Acres\* =4.76**  
**Plantable Acres\*\* =4.76**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.



Aerial Imagery: MD iMap 6 inch



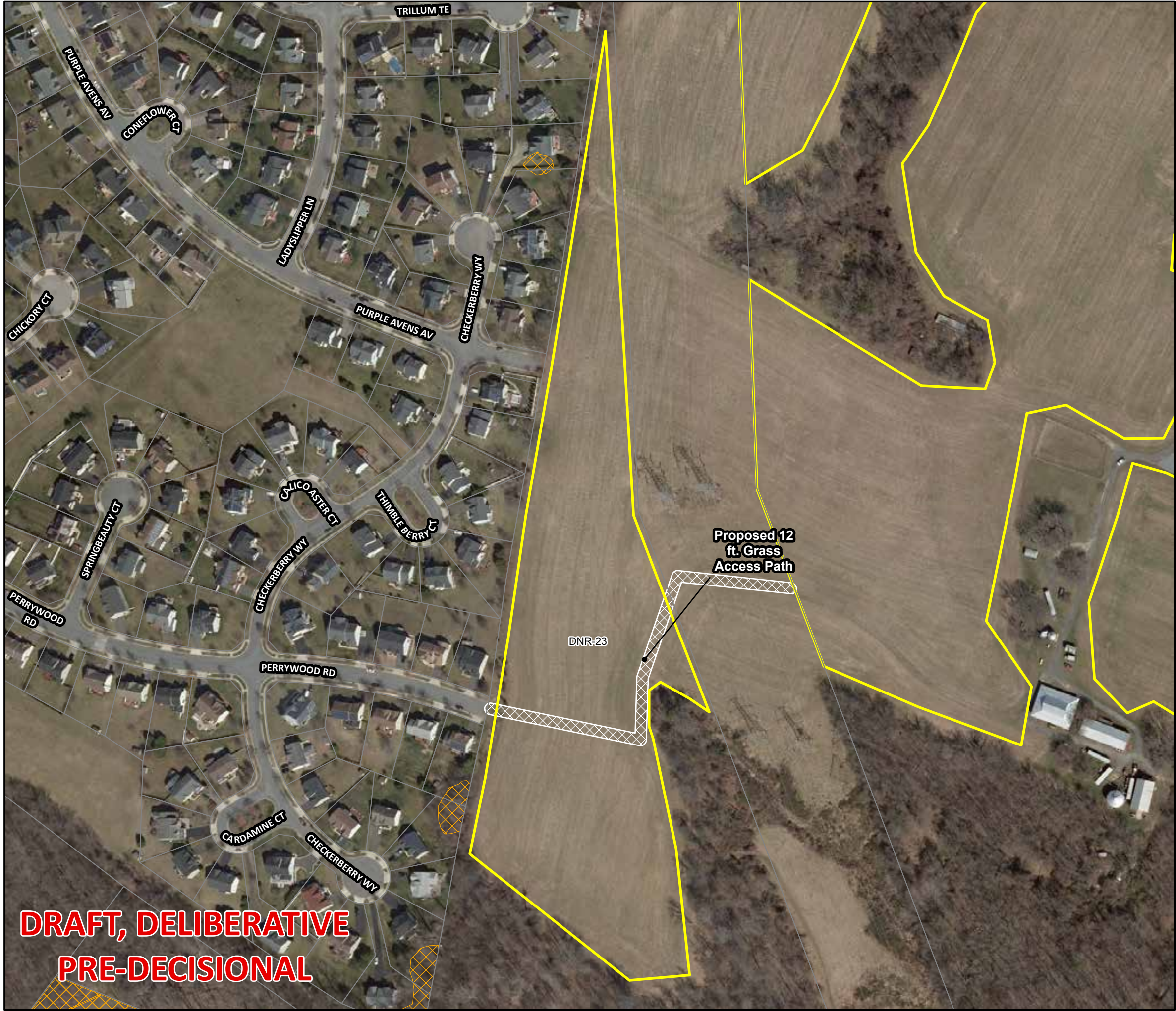
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I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-23**

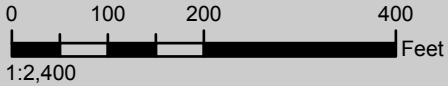
**Property Owner:** Wood William C. Et Al, DNR  
**Description:** Wood Property  
**Site Acres = 9.97**  
**Total Potential Credit Acres\* = 9.97**  
**Plantable Acres\*\* = 9.97**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Located on the Wood Property, expected to be acquired by DNR in 2020 or 2021.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**St. Mary's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-24**

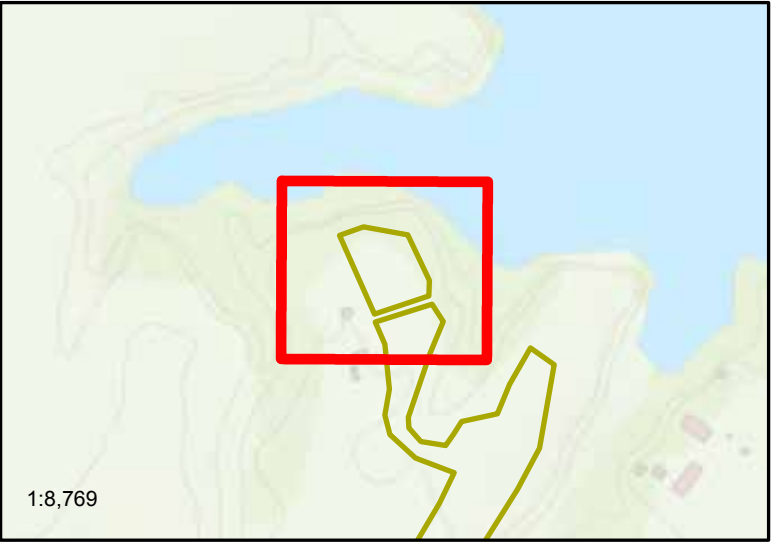
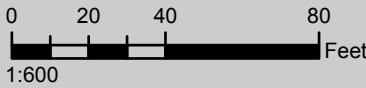
**Property Owner:** DNR  
**Description:** Greenwell State Park  
**Site Acres =** 1.02  
**Total Potential Credit Acres\*** =1.02  
**Plantable Acres\*\*** =1.02  
**Preservable Acres\*** = 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Maintain 12 foot wide grass access path between planting sites

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**DNR-24:** Greenwell State Park

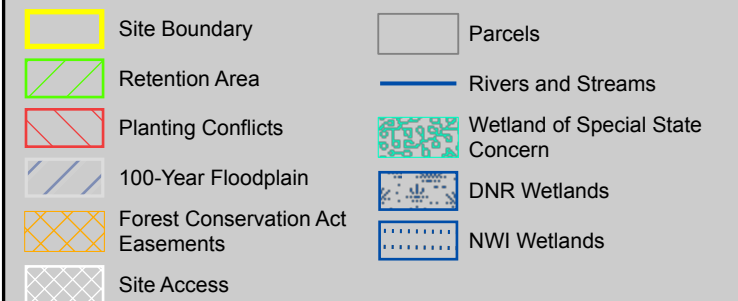


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**St. Mary's County**  
**Patuxent River Watershed**  
**SITE ID = DNR-25**

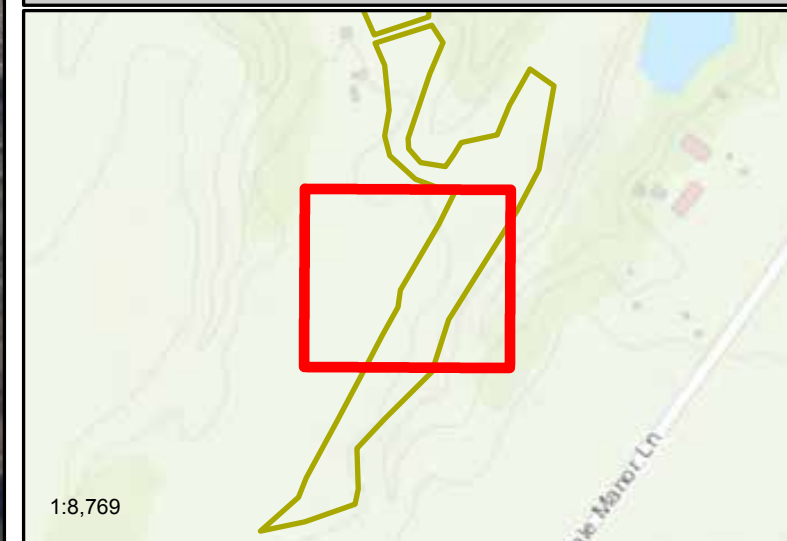
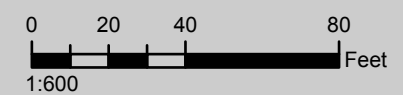
**Property Owner:** DNR  
**Description:** Greenwell State Park  
**Site Acres = 6.63**  
**Total Potential Credit Acres\* = 6.63**  
**Plantable Acres\*\* = 6.63**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Maintain 12 foot wide grass access path between planting sites. Preserve native trees in natural regeneration area.



Aerial Imagery: MD iMap 6 inch



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**DNR-25:** Greenwell State Park





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**St. Mary's County**  
**Lower Potomac Watershed**  
**SITE ID = DNR-26**

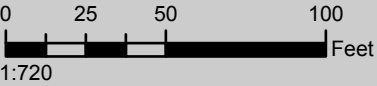
**Property Owner:** DNR  
**Description:** Newtowne Neck State Park  
**Site Acres =** 1.47  
**Total Potential Credit Acres\*** =1.47  
**Plantable Acres\*\*** =1.47  
**Preservable Acres\*** = 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Variance needed from DNR to allow planting proposed in 150 ft. buffer from edge of existing ag. field boundary.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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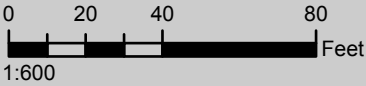
I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**St. Mary's County**  
**Lower Potomac Watershed**  
**SITE ID = DNR-27**

**Property Owner:** DNR  
**Description:** Newtowne Neck State Park  
**Site Acres =** 1.56  
**Total Potential Credit Acres\* =**1.56  
**Plantable Acres\*\* =**1.56  
**Preservable Acres\* =** 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Variance needed from DNR to allow planting proposed in 150 ft. buffer from edge of existing ag. field boundary.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**St. Mary's County**  
**Lower Potomac Watershed**  
**SITE ID = DNR-28**

**Property Owner:** DNR  
**Description:** Newtowne Neck State Park  
**Site Acres =** 6.11  
**Total Potential Credit Acres\* =** 6.11  
**Plantable Acres\*\* =** 6.11  
**Preservable Acres\* =** 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Variance needed from DNR to allow planting proposed in 200 ft. buffer from edge of existing ag. field boundary.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |







I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**St. Mary's County**  
**Lower Potomac Watershed**  
**SITE ID = DNR-30**

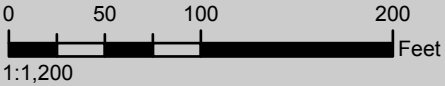
**Property Owner:** DNR  
**Description:** Newtowne Neck State Park  
**Site Acres =** 2.16  
**Total Potential Credit Acres\* =** 2.16  
**Plantable Acres\*\* =** 2.16  
**Preservable Acres\* =** 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Variance needed from DNR to allow planting.  
Planting area includes entire agricultural field.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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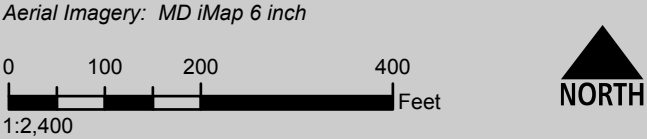


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**St. Mary's County**  
**Lower Potomac Watershed**  
**SITE ID = DNR-31**

**Property Owner:** DNR  
**Description:** Newtowne Neck State Park  
**Site Acres = 3.81**  
**Total Potential Credit Acres\* = 3.81**  
**Plantable Acres\*\* = 3.81**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Variance needed from DNR to allow planting proposed in 200 ft. buffer from edge of existing ag. field boundary.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



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I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**St. Mary's County**  
**Lower Potomac Watershed**  
**SITE ID = DNR-32**

**Property Owner:** DNR  
**Description:** Newtowne Neck State Park  
**Site Acres = 19.6**  
**Total Potential Credit Acres\* =19.6**  
**Plantable Acres\*\* =19.6**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Variance needed from DNR to allow planting proposed in 200 ft. buffer from edge of existing ag. field boundary.

- Site Boundary

Retention Area

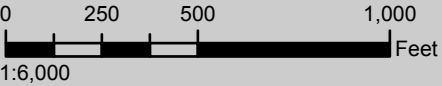
Planting Conflicts

100-Year Floodplain

Forest Conservation Act Easements

Site Access
- Parcels
- Rivers and Streams
- Wetland of Special State Concern
- DNR Wetlands
- NWI Wetlands

Aerial Imagery: MD iMap 6 inch



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









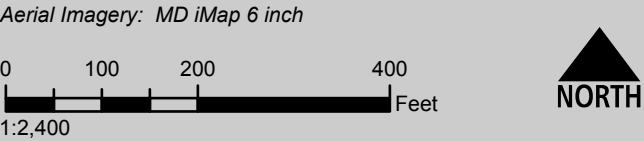


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**St. Mary's County**  
**Lower Potomac Watershed**  
**SITE ID = DNR-35**

**Property Owner:** DNR  
**Description:** Newtowne Neck State Park  
**Site Acres = 6.04**  
**Total Potential Credit Acres\* =6.04**  
**Plantable Acres\*\* =6.04**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Variance needed from DNR to allow planting proposed in 200 ft. buffer from edge of existing ag. field boundary.

- |   |  |
|---|--|
|  Site Boundary                       |  Parcels                          |
|  Retention Area                      |  Rivers and Streams               |
|  Planting Conflicts                  |  Wetland of Special State Concern |
|  100-Year Floodplain                |  DNR Wetlands                    |
|  Forest Conservation Act Easements |  NWI Wetlands                   |
|  Site Access                       |  |



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I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**St. Mary's County**  
**Lower Potomac Watershed**  
**SITE ID = DNR-37**

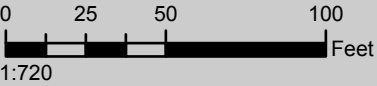
**Property Owner:** DNR  
**Description:** Newtowne Neck State Park  
**Site Acres = 2.32**  
**Total Potential Credit Acres\* = 2.32**  
**Plantable Acres\*\* = 2.32**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Variance needed from DNR to allow planting proposed in 200 ft. buffer from edge of existing ag. field boundary.

- |  |                                   |  |                                  |
|--|-----------------------------------|--|----------------------------------|
|  | Site Boundary                     |  | Parcels                          |
|  | Retention Area                    |  | Rivers and Streams               |
|  | Planting Conflicts                |  | Wetland of Special State Concern |
|  | 100-Year Floodplain               |  | DNR Wetlands                     |
|  | Forest Conservation Act Easements |  | NWI Wetlands                     |
|  | Site Access                       |  |                                  |

Aerial Imagery: MD iMap 6 inch



**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**














I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**St. Mary's County**  
**Lower Potomac Watershed**  
**SITE ID = DNR-38**

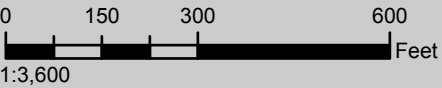
**Property Owner:** DNR  
**Description:** Newtowne Neck State Park  
**Site Acres =** 16.28  
**Total Potential Credit Acres\* =**16.28  
**Plantable Acres\*\* =**16.28  
**Preservable Acres\* =** 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Variance needed from DNR to allow planting proposed in 200 ft. buffer from edge of existing ag. field boundary.

- |   |  |
|---|--|
|  Site Boundary                       |  Parcels                          |
|  Retention Area                      |  Rivers and Streams               |
|  Planting Conflicts                  |  Wetland of Special State Concern |
|  100-Year Floodplain                |  DNR Wetlands                    |
|  Forest Conservation Act Easements |  NWI Wetlands                   |
|  Site Access                       |  |

Aerial Imagery: MD iMap 6 inch



1:52,389

September 2020

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**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**St. Mary's County**  
**Lower Potomac Watershed**  
**SITE ID = DNR-39**

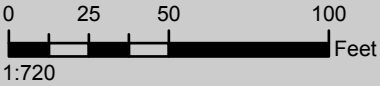
Property Owner: DNR  
Description: Newtowne Neck State Park  
Site Acres = 2.48  
Total Potential Credit Acres\* =2.48  
Plantable Acres\*\* =2.48  
Preservable Acres\* = 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Variance needed from DNR to allow planting proposed in 250 ft. buffer from edge of existing ag. field boundary.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**PRE-DECISIONAL**

September 2020

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**DNR-39: Newtowne Neck State Park**





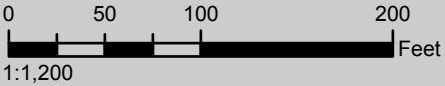
I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**St. Mary's County**  
**Lower Potomac Watershed**  
**SITE ID = DNR-40**

**Property Owner:** DNR  
**Description:** Newtowne Neck State Park  
**Site Acres =** 3.78  
**Total Potential Credit Acres\*** =3.78  
**Plantable Acres\*\*** =3.78  
**Preservable Acres\*** = 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Variance needed from DNR to allow planting proposed in 280 ft. buffer from edge of existing ag. field boundary.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**PRE-DECISIONAL**

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I-495 & I-270 MLS Reforestation Law Mitigation

Recommended Forest Planting Site

St. Mary's County

Lower Potomac Watershed

SITE ID = DNR-41

Property Owner: DNR

Description: Newtowne Neck State Park

Site Acres = 3.17

Total Potential Credit Acres\* =3.17

Plantable Acres\*\* =3.17

Preservable Acres\* = 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).

\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

Notes:

Variance needed from DNR to allow planting proposed in 125 ft. buffer from edge of existing ag. field boundary.

Site Boundary

Retention Area

Planting Conflicts

100-Year Floodplain

Forest Conservation Act Easements

Site Access

Parcels

Rivers and Streams

Wetland of Special State Concern

DNR Wetlands

NWI Wetlands

Aerial Imagery: MD iMap 6 inch

0100200400

Feet

1:2,400

NORTH

Neck State Park

111

1:34,930

September 2020

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495270

MANAGED LANES STUDY

Prepared by CEM 9/18/2020

**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**



I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**St. Mary's County**  
**Lower Potomac Watershed**  
**SITE ID = DNR-42**

**Property Owner:** DNR  
**Description:** Newtowne Neck State Park  
**Site Acres = 8.22**  
**Total Potential Credit Acres\* = 8.22**  
**Plantable Acres\*\* = 8.22**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** DNR took this site out of agriculture lease a few years ago. DNR will maintain to control invasives until the site is planted.

- Site Boundary

Retention Area

Planting Conflicts

100-Year Floodplain

Forest Conservation Act Easements

Site Access
- Parcels

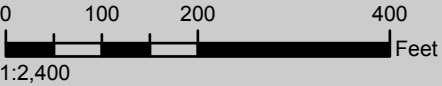
Rivers and Streams

Wetland of Special State Concern

DNR Wetlands

NWI Wetlands

Aerial Imagery: MD iMap 6 inch



**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**



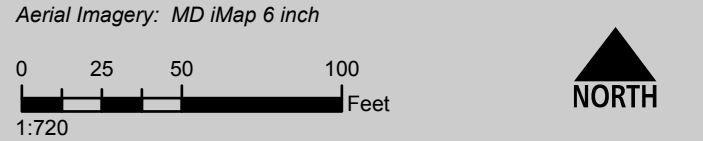


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Montgomery County**  
**Washington Metropolitan Watershed**  
**SITE ID = MNCPPCMO-2A**

Property Owner: M-NCPPC  
Description: Rock Creek SVU 4 & SVU 5  
Site Acres = 0.97  
Total Potential Credit Acres\* = 0.97  
Plantable Acres\*\* = 0.97  
Preservable Acres\* = 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Sewer line excluded from planting area. Potential wetland present.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



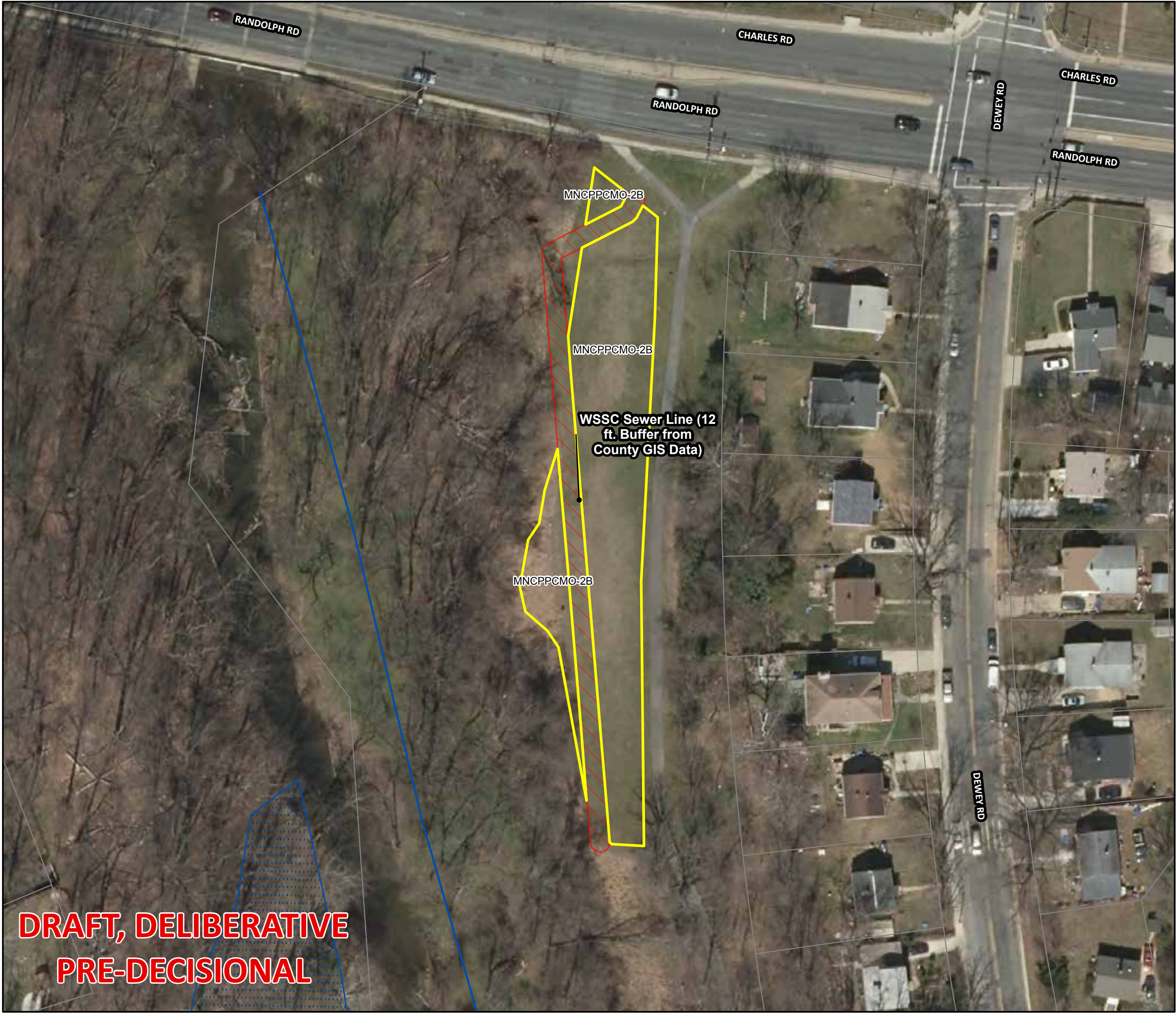
**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**





**MNCPPCMO-2A:** Rock Creek SVU 4 and SVU 5





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Montgomery County**  
**Washington Metropolitan Watershed**  
**SITE ID = MNCPPCMO-2B**

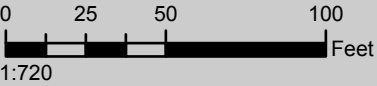
Property Owner: M-NCPPC  
Description: Rock Creek SVU 4 & SVU 5  
Site Acres = 0.41  
Total Potential Credit Acres\* = 0.41  
Plantable Acres\*\* = 0.41  
Preservable Acres\* = 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Clear invasive species in adjacent forested area to the southwest. Sewer line excluded from planting area.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**PRE-DECISIONAL**







**MNCPPCMO-2B:** Rock Creek SVU 4 & SVU 5





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Montgomery County**  
**Washington Metropolitan Watershed**  
**SITE ID = MNCPPCMO-3A**

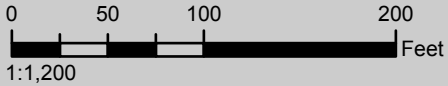
Property Owner: M-NCPPC  
Description: Olney Recreational Park  
Site Acres = 1.2  
Total Potential Credit Acres\* = 1.2  
Plantable Acres\*\* = 1.2  
Preservable Acres\* = 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Mowed lawn with scattered trees.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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September 2020

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**MNCPPCMO-3A:** Olney Recreational Park





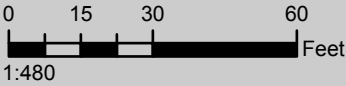
I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Montgomery County**  
**Washington Metropolitan Watershed**  
**SITE ID = MNCPPCMO-4A**

**Property Owner:** M-NCPPC  
**Description:** Northwest Branch SVU 5  
**Site Acres = 0.59**  
**Total Potential Credit Acres\* = 0.59**  
**Plantable Acres\*\* = 0.59**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Green space/mowed area used by public. Minor clearing of invasives in southern bump out area.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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September 2020

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**MNCPPCMO-4A:** Northwest Branch SVU 5 - North





I-495 & I-270 MLS Reforestation Law Mitigation

Recommended Forest Planting Site

Montgomery County

Washington Metropolitan Watershed

SITE ID = MNCPPCMO-8A

Property Owner: M-NCPPC

Description: Northwest Branch SVU 5 - South

Site Acres = 1

Total Potential Credit Acres\* =1

Plantable Acres\*\* =1

Preservable Acres\* = 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).

\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

Notes: Adjacent to existing ICC reforestation site.

Sporadic plantings observed, infill possible. Clear existing Bradford pears.

Site Boundary

Retention Area

Planting Conflicts

100-Year Floodplain

Forest Conservation Act Easements

Site Access

Parcels

Rivers and Streams

Wetland of Special State Concern

DNR Wetlands

NWI Wetlands

Aerial Imagery: MD iMap 6 inch

0

20

40

80

Feet

1:600

NORTH

1:8,807

September 2020

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495

270

MANAGED LANES STUDY

Prepared by CEM 9/18/2020

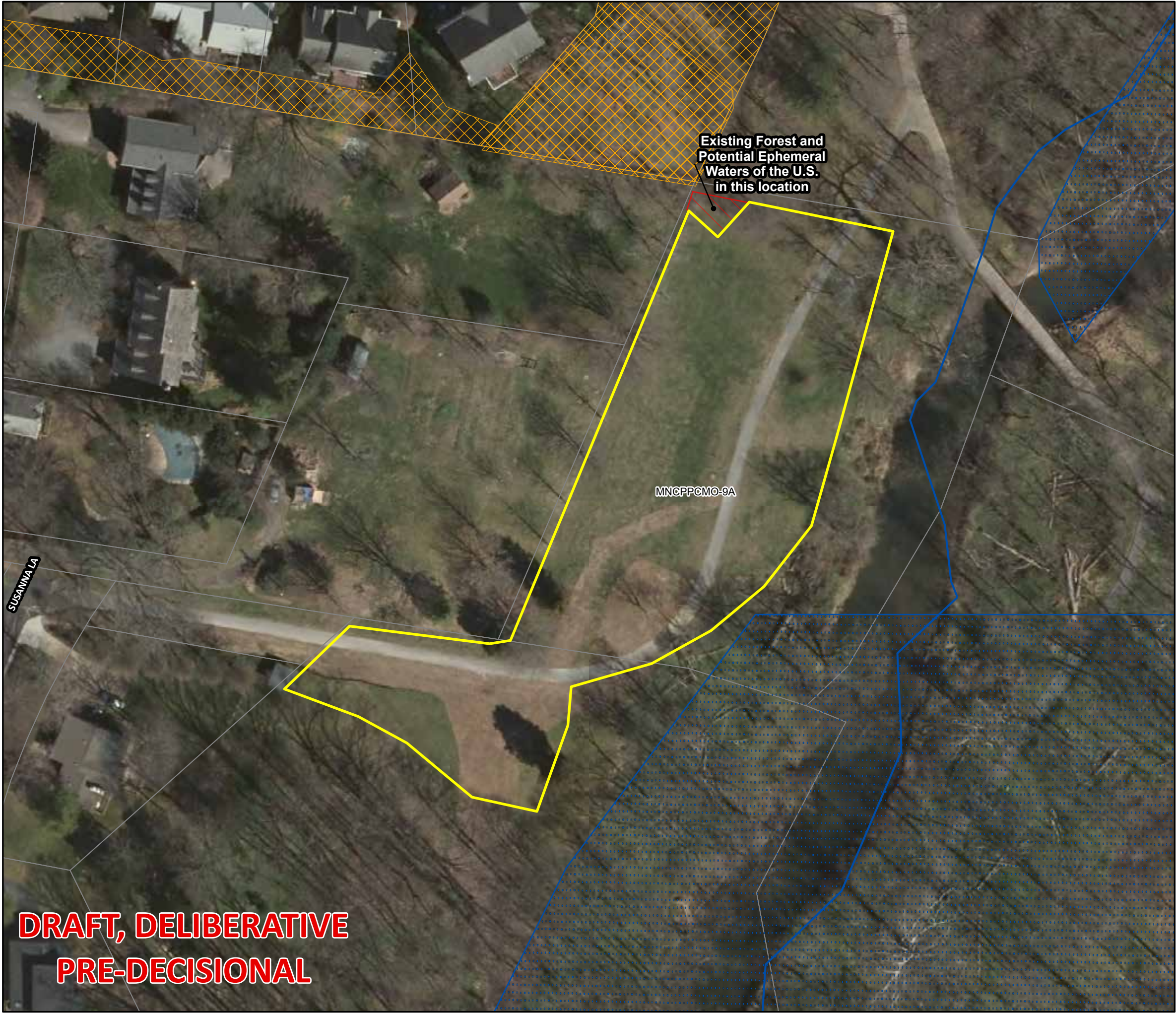
**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**





**MNCPPCMO-8A:** Northwest Branch SVU 5 - South





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Montgomery County**  
**Washington Metropolitan Watershed**  
**SITE ID = MNCPPCMO-9A**

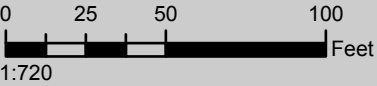
**Property Owner:** M-NCPPC  
**Description:** Rock Creek SVU 2  
**Site Acres =** 1.21  
**Total Potential Credit Acres\*** =1.21  
**Plantable Acres\*\*** =1.21  
**Preservable Acres\*** = 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Mowed lawn with scattered trees. Ephemeral channel observed at northern edge near existing treeline.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**MNCPPCMO-9A:** Rock Creek SVU














I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
Washington Metropolitan Watershed  
**SITE ID = NASA\_01**

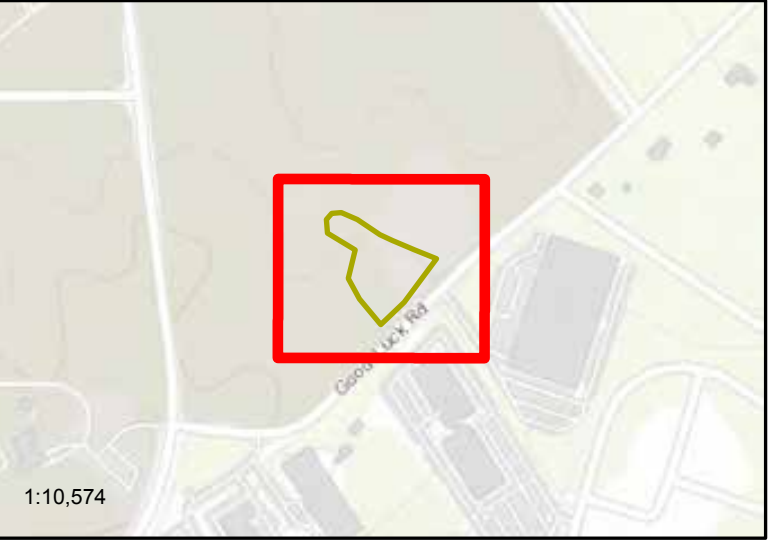
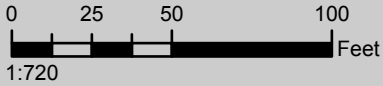
**Property Owner:** NASA  
**Description:** NASA Goddard and Flight Center  
**Site Acres = 1.64**  
**Total Potential Credit Acres\* = 1.64**  
**Plantable Acres\*\* = 1.64**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Soil spoil area. Proposed planting area is on top of a very steep plateau. Removal of invasives required.

- |   |  |
|---|--|
|  Site Boundary                       |  Parcels                          |
|  Retention Area                      |  Rivers and Streams               |
|  Planting Conflicts                  |  Wetland of Special State Concern |
|  100-Year Floodplain                |  DNR Wetlands                    |
|  Forest Conservation Act Easements |  NWI Wetlands                   |
|  Site Access                       |  |

Aerial Imagery: MD iMap 6 inch



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**PRE-DECISIONAL**

September 2020

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NASA\_01: NASA Goddard



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PRE-DECISIONAL**



I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Washington Metropolitan Watershed**  
**SITE ID = NASA\_02**

**Property Owner: NASA**  
**Description: NASA Goddard and Flight Center**  
**Site Acres = 1.98**  
**Total Potential Credit Acres\* = 1.98**  
**Plantable Acres\*\* = 1.98**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Partially forested wet depression observed north of the planting area.

Site Boundary	Parcels
Retention Area	Rivers and Streams
Planting Conflicts	Wetland of Special State Concern
100-Year Floodplain	DNR Wetlands
Forest Conservation Act Easements	NWI Wetlands
Site Access	

Aerial Imagery: MD iMap 6 inch

0 50 100 200 Feet  
1:1,200

NORTH







**NASA\_02:** NASA Goddard





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Washington Metropolitan Watershed**  
**SITE ID = USDA-2B**

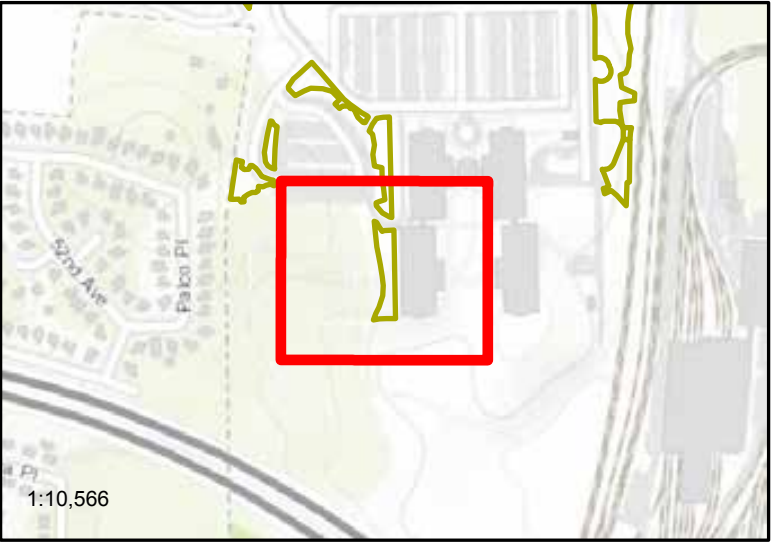
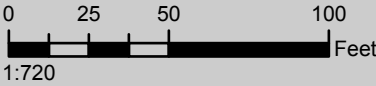
**Property Owner:** USDA  
**Description:** George Washington Carver Center  
**Site Acres = 0.4**  
**Total Potential Credit Acres\* = 0.4**  
**Plantable Acres\*\* = 0.4**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Maintain a clear space adjacent to building.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**

September 2020

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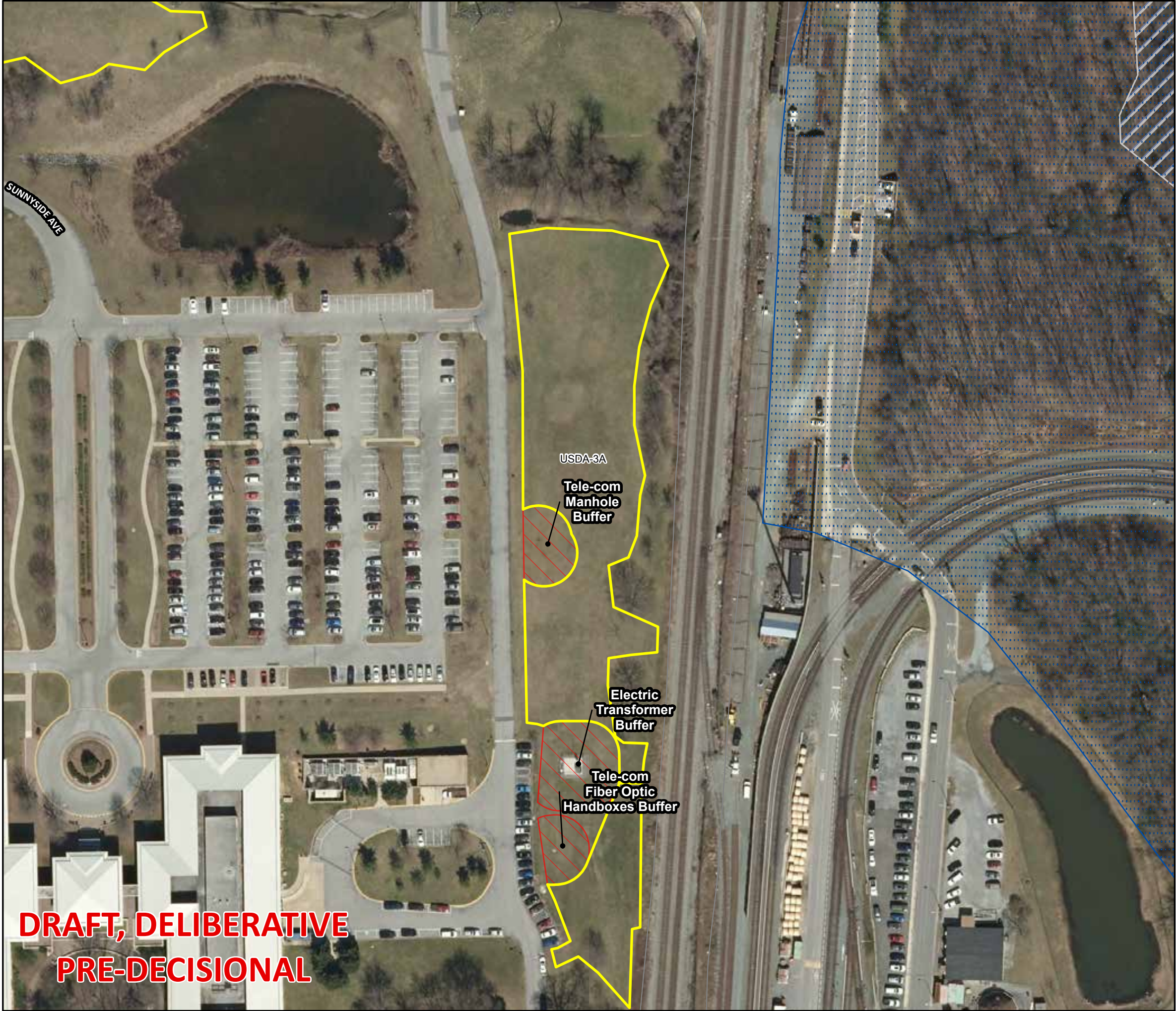






**USDA-2B:** George Washington Carver Center





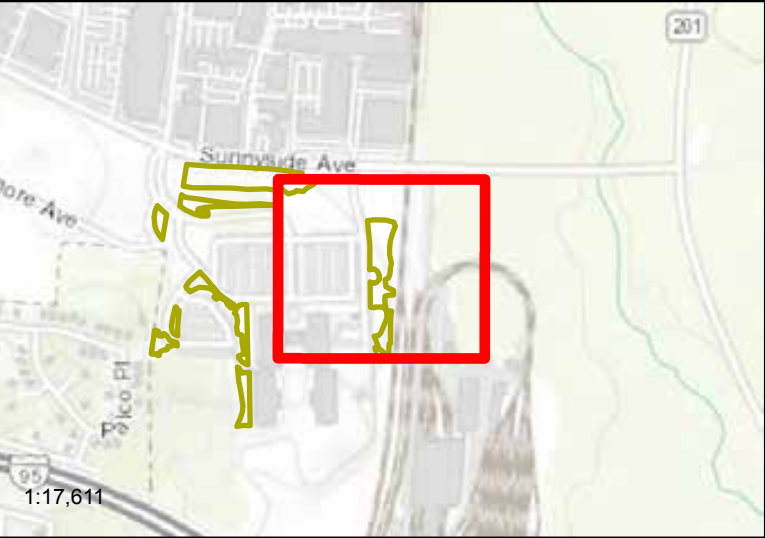
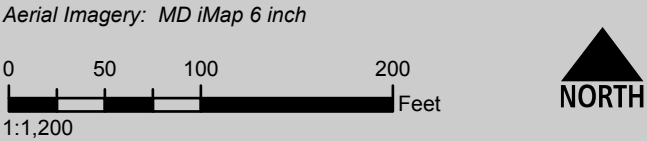
I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Washington Metropolitan Watershed**  
**SITE ID = USDA-3A**

**Property Owner:** USDA  
**Description:** George Washington Carver Center  
**Site Acres = 1.36**  
**Total Potential Credit Acres\* = 1.36**  
**Plantable Acres\*\* = 1.36**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** NRHP eligible prehistoric site 18PR94. Propose whips for tree planting under an MOU with MHT. Adjacent to tele-com manhole.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**





**USDA-3A:** George Washington Carver Center





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Washington Metropolitan Watershed**  
**SITE ID = USDA-3B**

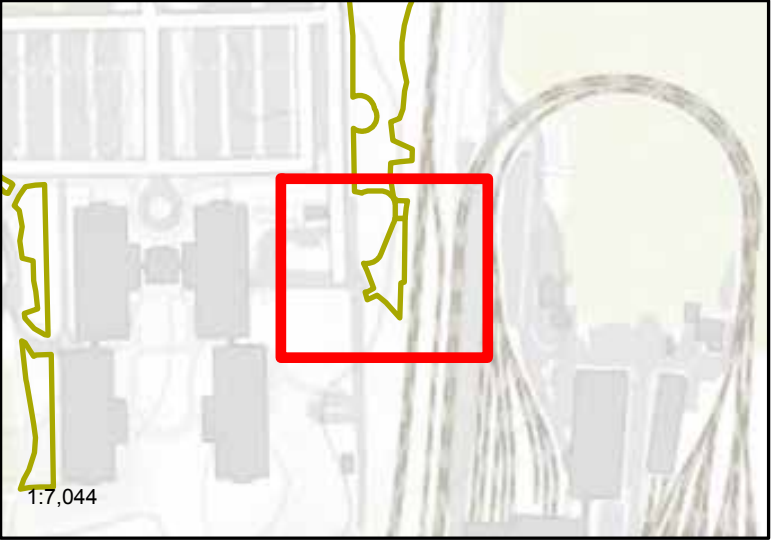
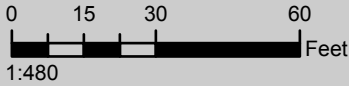
**Property Owner:** USDA  
**Description:** George Washington Carver Center  
**Site Acres = 0.29**  
**Total Potential Credit Acres\* = 0.29**  
**Plantable Acres\*\* = 0.29**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Tele-com fiber optic handboxes adjacent to planting area.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**

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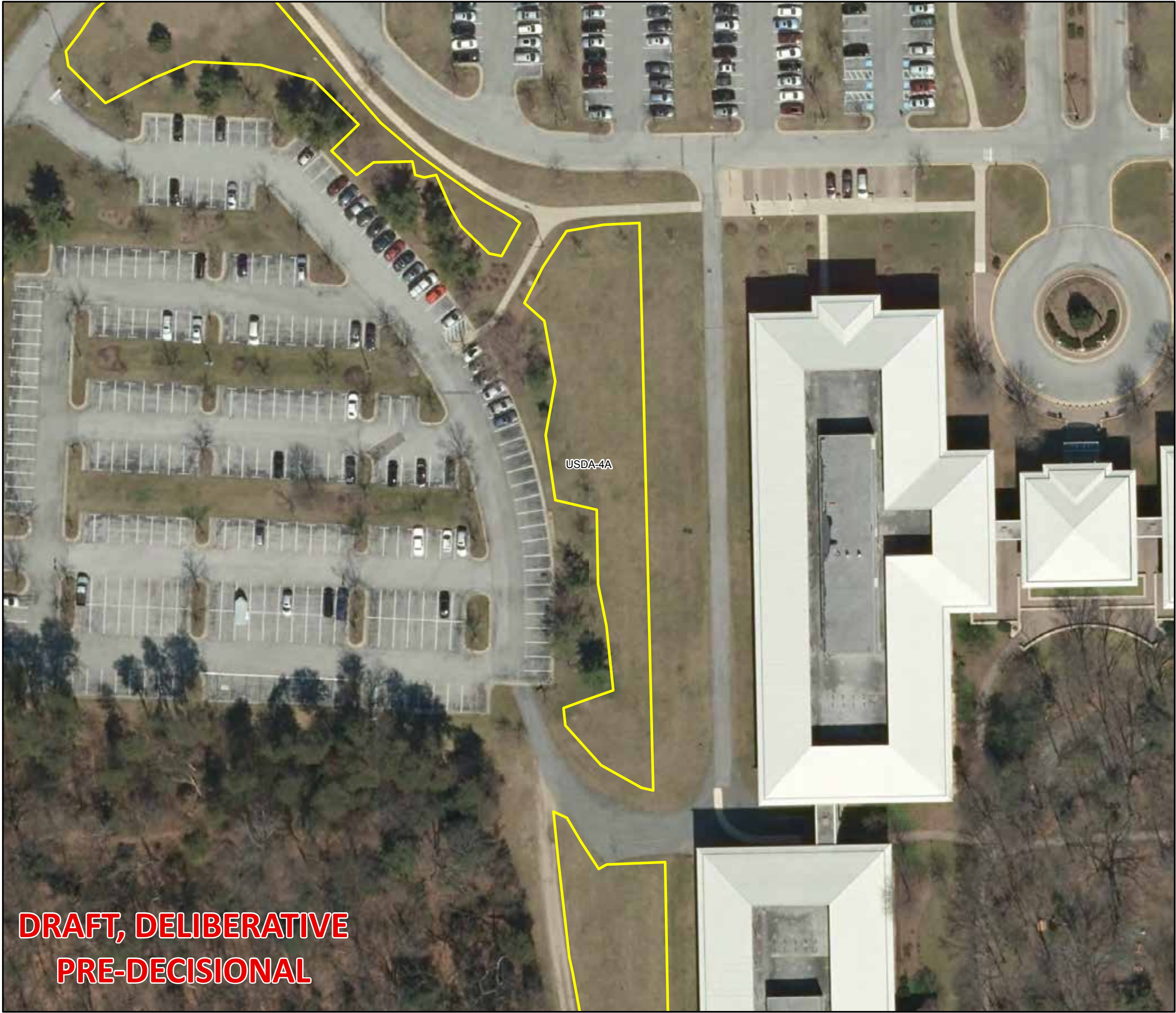






**USDA-3B:** George Washington Carver Center





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Washington Metropolitan Watershed**  
**SITE ID = USDA-4A**

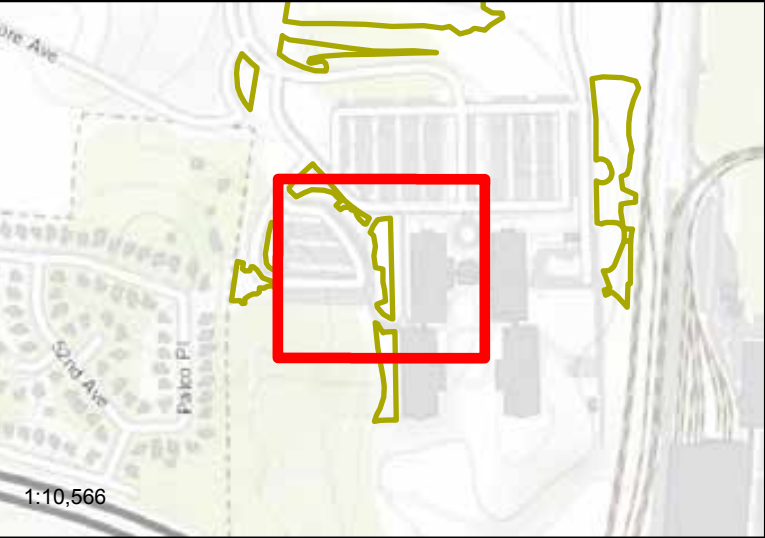
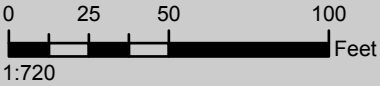
**Property Owner:** USDA  
**Description:** George Washington Carver Center  
**Site Acres = 0.37**  
**Total Potential Credit Acres\* = 0.37**  
**Plantable Acres\*\* = 0.37**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Adjacent gas utility line excluded from potential planting area boundary.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**PRE-DECISIONAL**





**USDA-4A:** George Washington Carver Center





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Washington Metropolitan Watershed**  
**SITE ID = USDA-4B**

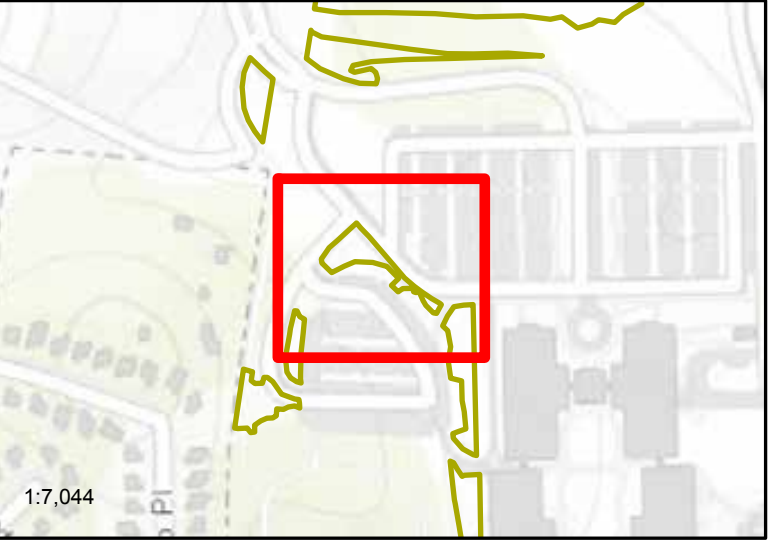
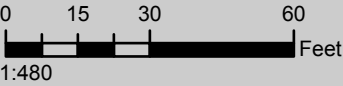
**Property Owner:** USDA  
**Description:** George Washington Carver Center  
**Site Acres = 0.28**  
**Total Potential Credit Acres\* = 0.28**  
**Plantable Acres\*\* = 0.28**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Maintained grass field.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**USDA-4B:** George Washington Carver Center





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Washington Metropolitan Watershed**  
**SITE ID = USDA-4C**

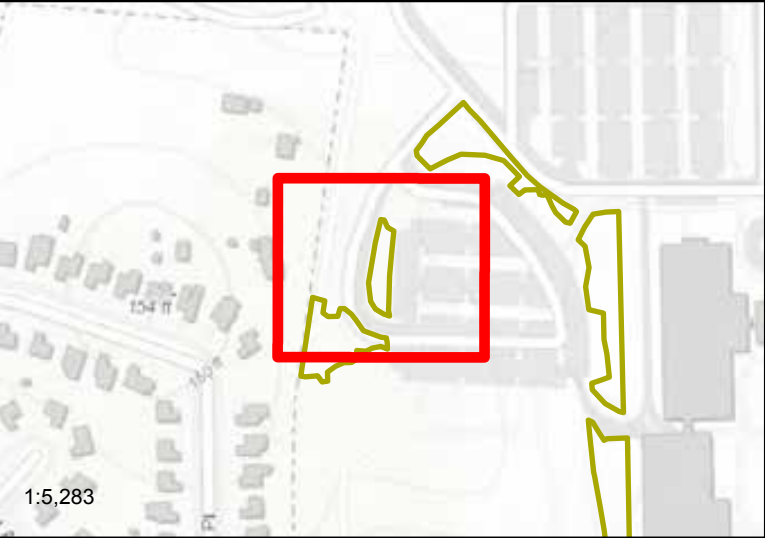
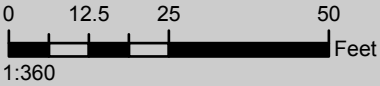
**Property Owner:** USDA  
**Description:** George Washington Carver Center  
**Site Acres = 0.11**  
**Total Potential Credit Acres\* = 0.11**  
**Plantable Acres\*\* = 0.11**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Maintained grass field.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**PRE-DECISIONAL**





**USDA-4C:** George Washington Carver Center





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Washington Metropolitan Watershed**  
**SITE ID = USDA-4D**

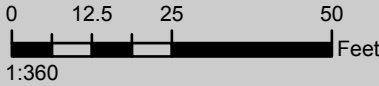
**Property Owner:** USDA  
**Description:** George Washington Carver Center  
**Site Acres = 0.26**  
**Total Potential Credit Acres\* = 0.26**  
**Plantable Acres\*\* = 0.26**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Maintained grass field.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**USDA-4D:** George Washington Carver Center





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Washington Metropolitan Watershed**  
**SITE ID = USDA-6A**

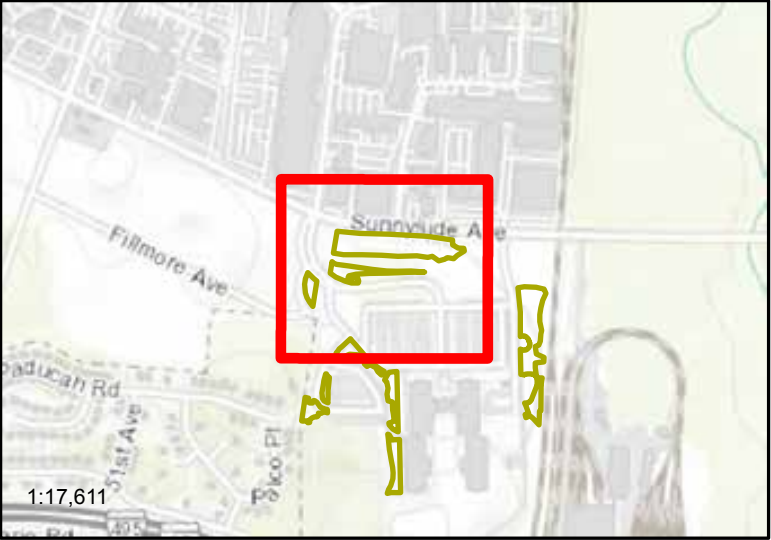
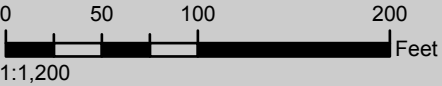
**Property Owner:** USDA  
**Description:** George Washington Carver Center  
**Site Acres =** 2.72  
**Total Potential Credit Acres\*** =2.72  
**Plantable Acres\*\*** =2.72  
**Preservable Acres\*** = 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Keep tree plantings away from SWM Facilities

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**USDA-6A:** George Washington Carver Center

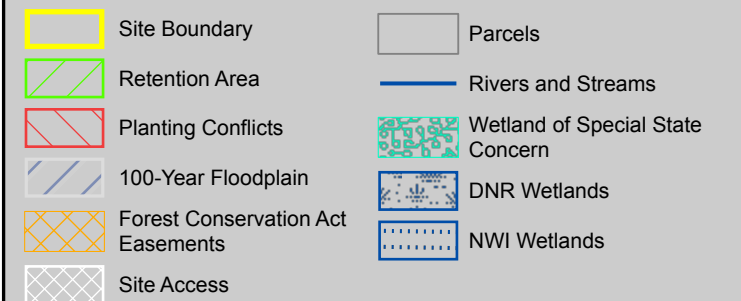


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Anne Arundel County**  
**Patuxent River Watershed**  
**SITE ID = USFWS-1**

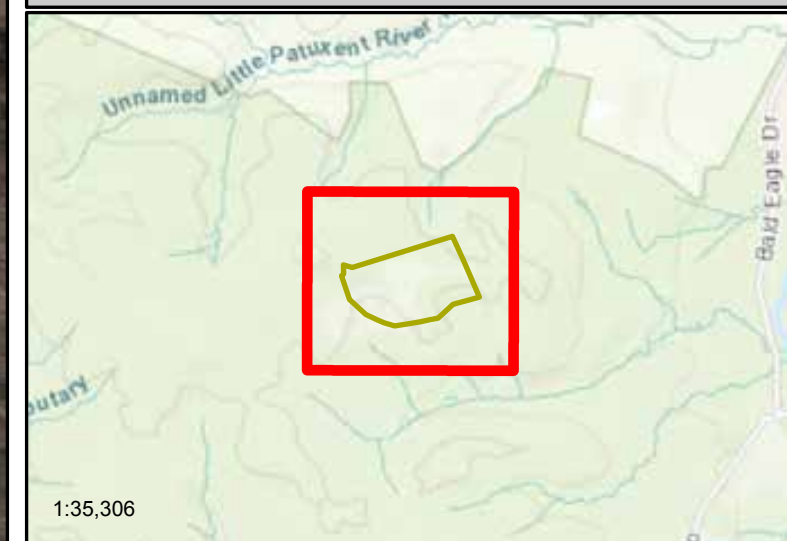
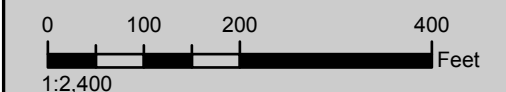
**Property Owner:** USFWS  
**Description:** Patuxent Research Refuge  
**Site Acres = 25.45**  
**Total Potential Credit Acres\* = 25.45**  
**Plantable Acres\*\* = 25.45**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Large open site with gravelly, sandy soil. Potential wetland and stand of *Phragmites australis*. Chinese silver grass and Bradford pears observed. USFWS goal is to create an oak-pine savannah ecosystem. Large, dense stands of volunteer sweet gum are present.



Aerial Imagery: MD iMap 6 inch



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**USFWS-01:** North Tract Drop Zone





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = USFWS-2**

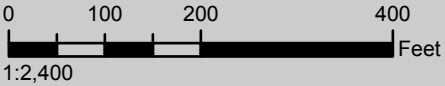
**Property Owner:** USFWS  
**Description:** Patuxent Research Refuge  
**Site Acres =** 7.75  
**Total Potential Credit Acres\* =** 7.75  
**Plantable Acres\*\* =** 7.75  
**Preservable Acres\* =** 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Large potential wetland adjacent to site and potential PEM wetland within site. Stands of Phragmites australis, pear, multiflora.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**USFWS-02:** South Tract Area 51














I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = USFWS-3**

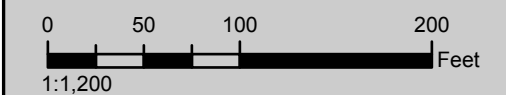
**Property Owner:** USFWS  
**Description:** Patuxent Research Refuge  
**Site Acres = 3.22**  
**Total Potential Credit Acres\* = 3.22**  
**Plantable Acres\*\* = 3.22**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Maintain existing 8-ft. access route within planting boundary. Some invasives and scattered stands of sweetgum regeneration present.

- |   |  |
|---|--|
|  Site Boundary                       |  Parcels                          |
|  Retention Area                      |  Rivers and Streams               |
|  Planting Conflicts                  |  Wetland of Special State Concern |
|  100-Year Floodplain                 |  DNR Wetlands                     |
|  Forest Conservation Act Easements |  NWI Wetlands                   |
|  Site Access                       |  |

Aerial Imagery: MD iMap 6 inch



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**USFWS-03:** South Tract Cash lake Peninsula



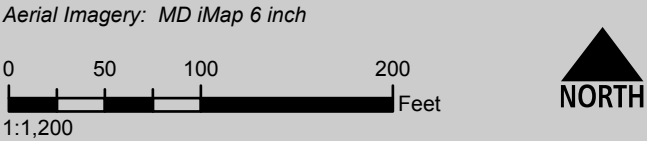


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = USFWS-4**

**Property Owner:** USFWS  
**Description:** Patuxent Research Refuge  
**Site Acres =** 2.36  
**Total Potential Credit Acres\* =** 2.36  
**Plantable Acres\*\* =** 2.36  
**Preservable Acres\* =** 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** House demo is complete. USFWS will remove utilities, remediate soil, apply compost and reseed.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



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**USFWS-04:** South Tract Loblolly Drive Demolition





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = USFWS-5**

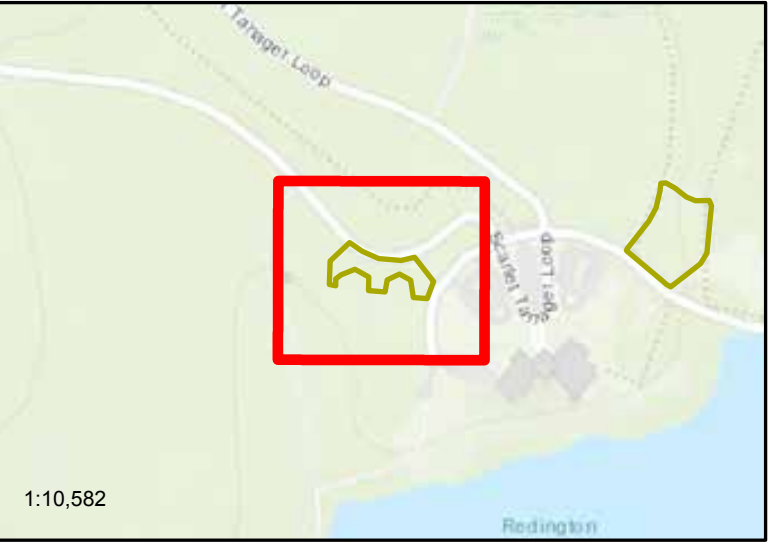
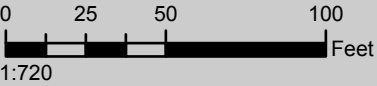
**Property Owner:** USFWS  
**Description:** Patuxent Research Refuge  
**Site Acres = 0.76**  
**Total Potential Credit Acres\* = 0.76**  
**Plantable Acres\*\* = 0.76**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Open, maintained field adjacent to ponds.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**USFWS-05:** South Tract North of TTP

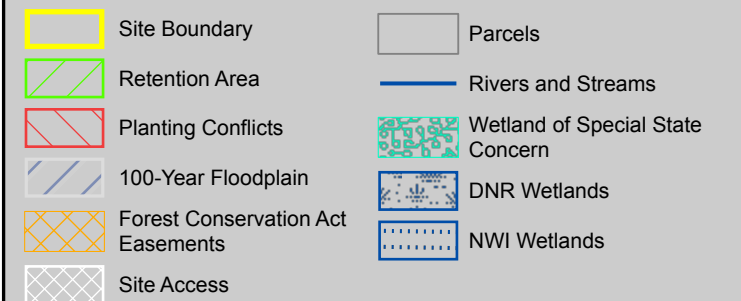


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = USFWS-6**

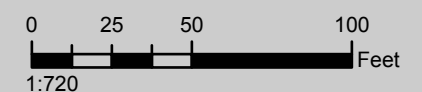
**Property Owner:** USFWS  
**Description:** Patuxent Research Refuge  
**Site Acres = 1.53**  
**Total Potential Credit Acres\* = 1.53**  
**Plantable Acres\*\* = 1.53**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Open field. Small patch eastern red cedars in center of planting area. Maintain a 5 ft. wide buffer for access to Motus tower.



Aerial Imagery: MD iMap 6 inch



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**USFWS-06:** South Tract 42H North of VC





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = USFWS-7**

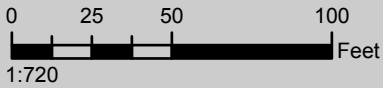
**Property Owner:** USFWS  
**Description:** Patuxent Research Refuge  
**Site Acres = 1.45**  
**Total Potential Credit Acres\* =1.45**  
**Plantable Acres\*\* =1.45**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Open field. Accessible from tram road. Wet swale along road, just outside of planting boundary. No invasives observed

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**USFWS-07:** South Tract Mabbot Pond Field





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = USFWS-8**

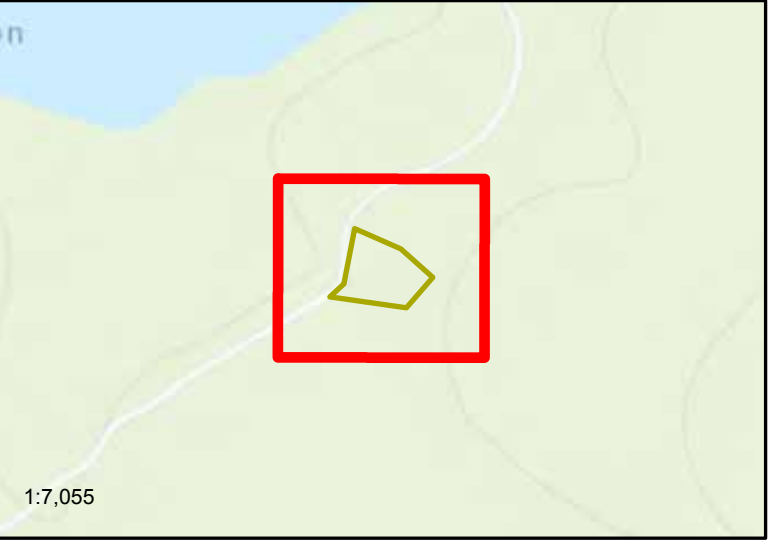
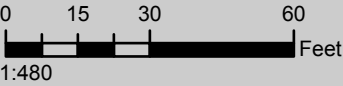
**Property Owner:** USFWS  
**Description:** Patuxent Research Refuge  
**Site Acres = 0.59**  
**Total Potential Credit Acres\* =0.59**  
**Plantable Acres\*\* =0.59**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Open field. Leave two parking spaces for hunters.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**PRE-DECISIONAL**





**USFWS-08:** South Tract Harding Spring Pond Field





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = USFWS-9**

**Property Owner:** USFWS  
**Description:** Patuxent Research Refuge  
**Site Acres = 6.29**  
**Total Potential Credit Acres\* = 6.29**  
**Plantable Acres\*\* = 6.29**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Maintain existing field access road, clear invasive hedgerow along northern side of planting boundary.

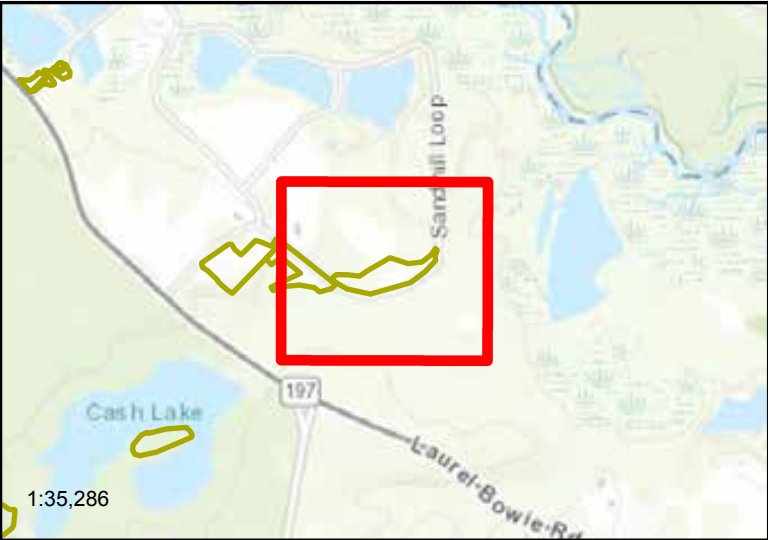
- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch

0 100 200 400 Feet

1:2,400

NORTH



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**USFWS-09:** Central Tract Endangered Species Area - A





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = USFWS-10**

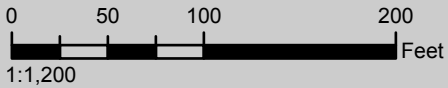
**Property Owner:** USFWS  
**Description:** Patuxent Research Refuge  
**Site Acres = 4.31**  
**Total Potential Credit Acres\* = 4.31**  
**Plantable Acres\*\* = 4.31**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Maintain existing field access road. Coordinate with USFWS on treating invasives in surrounding forest/hedgerows.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**USFWS-10:** Central Tract Endangered Species Area - B





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = USFWS-11**

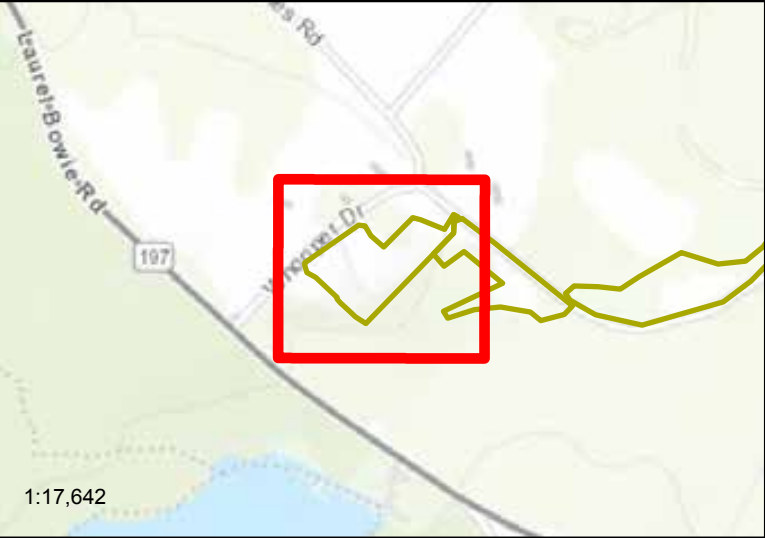
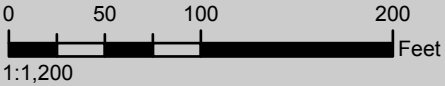
**Property Owner:** USFWS  
**Description:** Patuxent Research Refuge  
**Site Acres =** 6.24  
**Total Potential Credit Acres\* =** 6.24  
**Plantable Acres\*\* =** 6.24  
**Preservable Acres\* =** 0

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Clear invasive species in north of site/surrounding forest. USFWS may remove crane facility prior to planting.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**





**USFWS-11:** North Tract Contractor yard off Wildlife Loop



**USFWS-11:** North Tract Contractor yard off Wildlife Loop - Crane Flight Facility





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = USFWS-12**

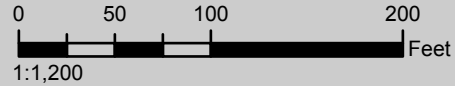
**Property Owner:** USFWS  
**Description:** Patuxent Research Refuge  
**Site Acres = 1.45**  
**Total Potential Credit Acres\* = 1.45**  
**Plantable Acres\*\* = 1.45**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** USFWS will demo buildings, fill basements, apply topsoil, compost, and seed.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



September 2020

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**USFWS-12:** Central Quarters 64 and 65 Post Demolition



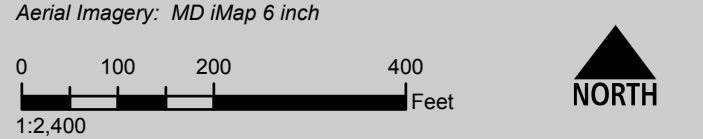


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Planting Site**  
**Anne Arundel County**  
**Patuxent River Watershed**  
**SITE ID = USFWS-13**

**Property Owner:** USFWS  
**Description:** Patuxent Research Refuge  
**Site Acres = 2.44**  
**Total Potential Credit Acres\* = 2.44**  
**Plantable Acres\*\* = 2.44**  
**Preservable Acres\* = 0**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Stockpile area with mulch piles and trailer. USFWS will rip the site and incorporate compost to alleviate soil compaction.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



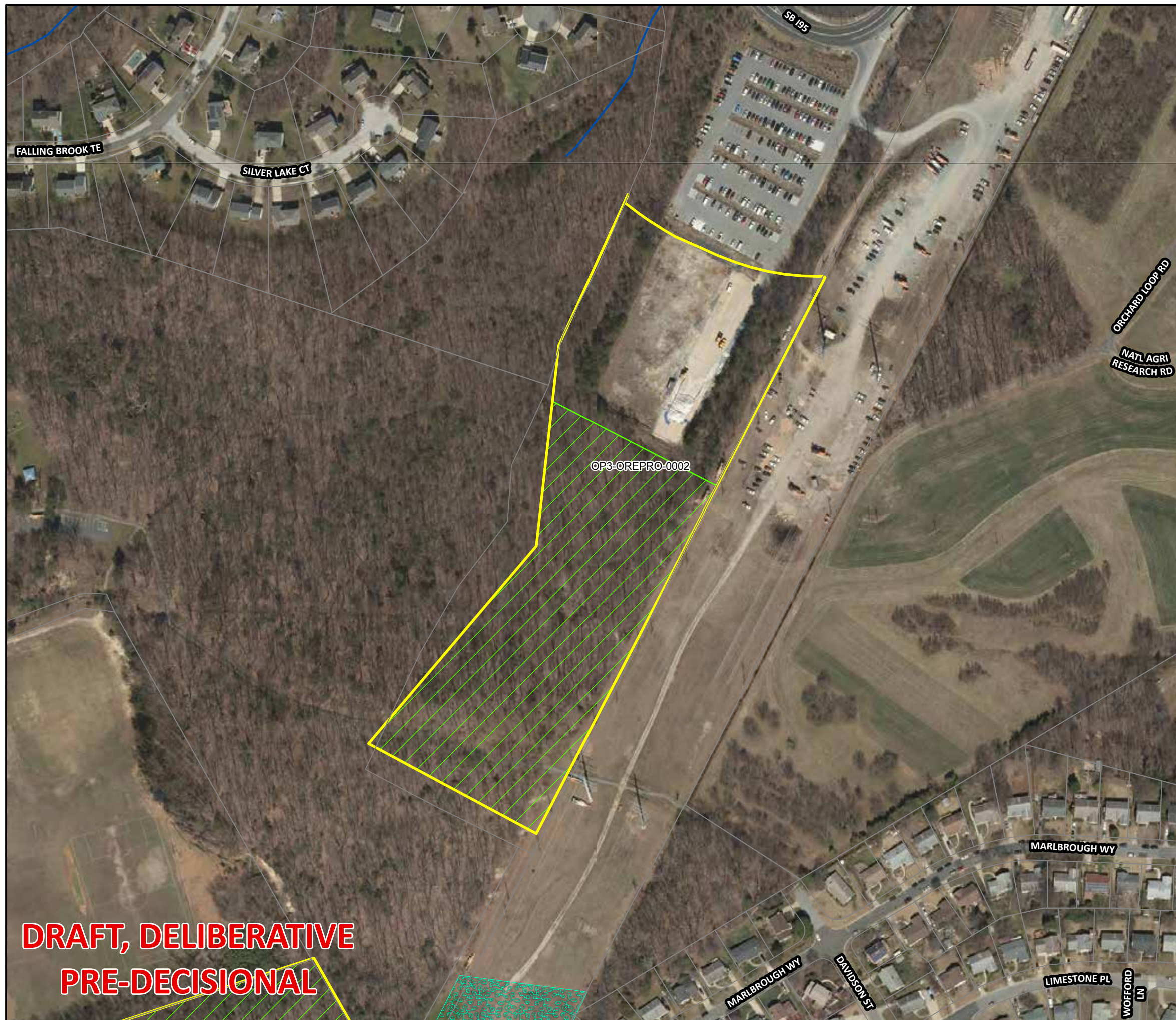
**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**





**USFWS-13:** North Tract Contractor Yard off Wild life Loop





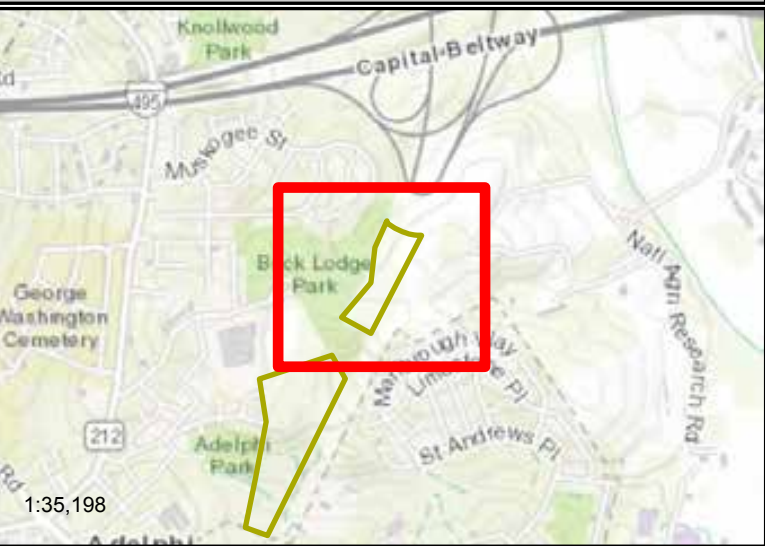
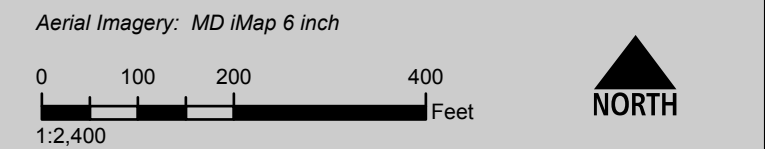
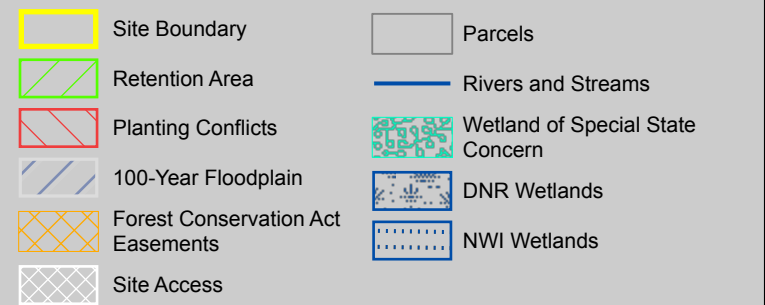
I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Retention Site**  
**Prince George's County**  
**Washington Metropolitan Watershed**  
**SITE ID = OP3-OREPRO-0002**

**Property Owner: MDOT SHA**  
**Description: Excess Lands**  
**Site Acres = 10.53**  
**Total Potential Credit Acres\* =3.12**  
**Plantable Acres\*\* =0**  
**Preservable Acres\* = 6.23**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).

\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Early/mid succession forest. Wetlands and waters observed. Utility line runs along park path and adjacent to parcel boundary.







**OP3-OREPRO-0002: MDOT Excess Lands**



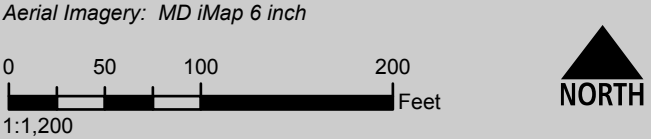


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Retention Site**  
**Howard County**  
**Patuxent River Watershed**  
**SITE ID = OP3-OREPRO-0004**

**Property Owner:** MDOT SHA  
**Description:** Excess Lands  
**Site Acres = 4.07**  
**Total Potential Credit Acres\* = 1.73**  
**Plantable Acres\*\* = 0**  
**Preservable Acres\* = 3.46**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Mid to late succession forest. No/low invasive species present.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



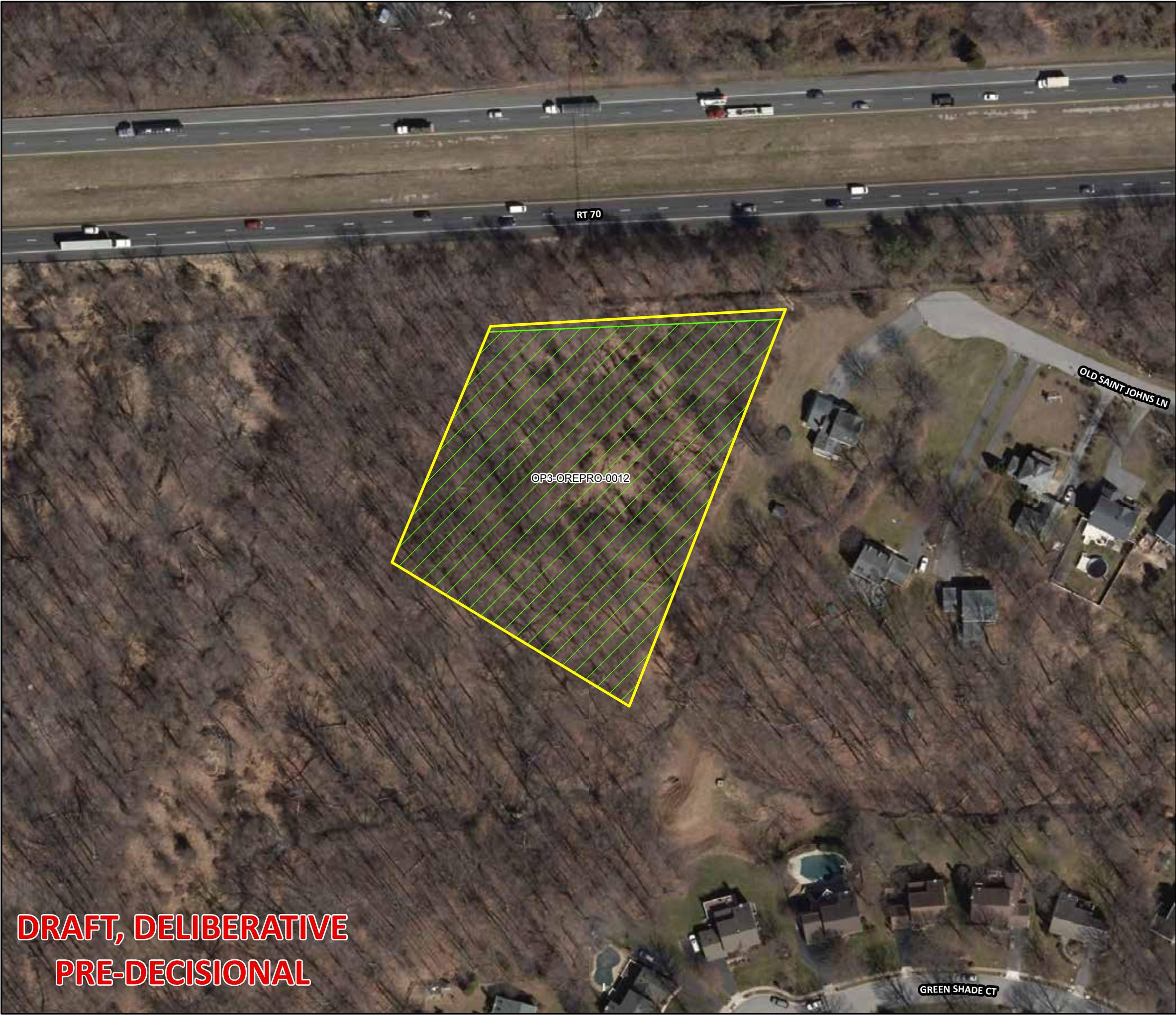
**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**





**OP3-OREPRO-0004:** MDOT Excess Lands



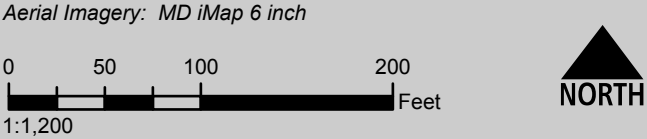


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Retention Site**  
**Howard County**  
**Patuxent River Watershed**  
**SITE ID = OP3-OREPRO-0012**

**Property Owner:** MDOT SHA  
**Description:** Excess Lands  
**Site Acres = 2.33**  
**Total Potential Credit Acres\* = 1.12**  
**Plantable Acres\*\* = 0**  
**Preservable Acres\* = 2.24**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Mid succession forest. Herbaceous and woody vines present.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



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**OP3-OREPRO-0012: MDOT Excess Lands**



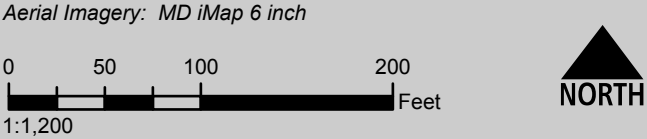


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Retention Site**  
**Howard County**  
**Patuxent River Watershed**  
**SITE ID = OP3-OREPRO-0013**

**Property Owner:** MDOT SHA  
**Description:** Excess Lands  
**Site Acres = 2.34**  
**Total Potential Credit Acres\* = 1.17**  
**Plantable Acres\*\* = 0**  
**Preservable Acres\* = 2.34**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Mid succession forest. Low invasive species present. Water and wetland resources present

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



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**OP3-OREPRO-0013:** MDOT Excess Lands





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Retention Site**  
**Howard County**  
**Patuxent River Watershed**  
**SITE ID = OP3-OREPRO-0014**

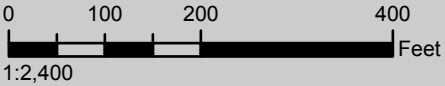
**Property Owner:** MDOT SHA  
**Description:** Excess Lands  
**Site Acres = 12.09**  
**Total Potential Credit Acres\* = 6.04**  
**Plantable Acres\*\* = 0**  
**Preservable Acres\* = 12.08**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Early to mid succession forest. Minimal invasives present. Perennial stream observed.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



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**OP3-OREPRO-0014:** MDOT Excess Lands



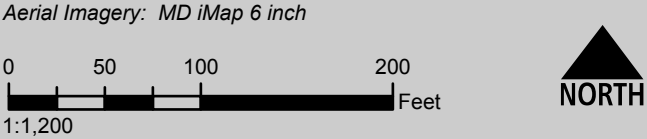


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Retention Site**  
**Howard County**  
**Patuxent River Watershed**  
**SITE ID = OP3-OREPRO-0016**

**Property Owner:** MDOT SHA  
**Description:** Excess Lands  
**Site Acres = 4.45**  
**Total Potential Credit Acres\* = 1.89**  
**Plantable Acres\*\* = 0**  
**Preservable Acres\* = 3.77**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Mid succession forest, minimal invasives. Perennial stream present. PEM/PSS adjacent to sound wall, excluded from retention area.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



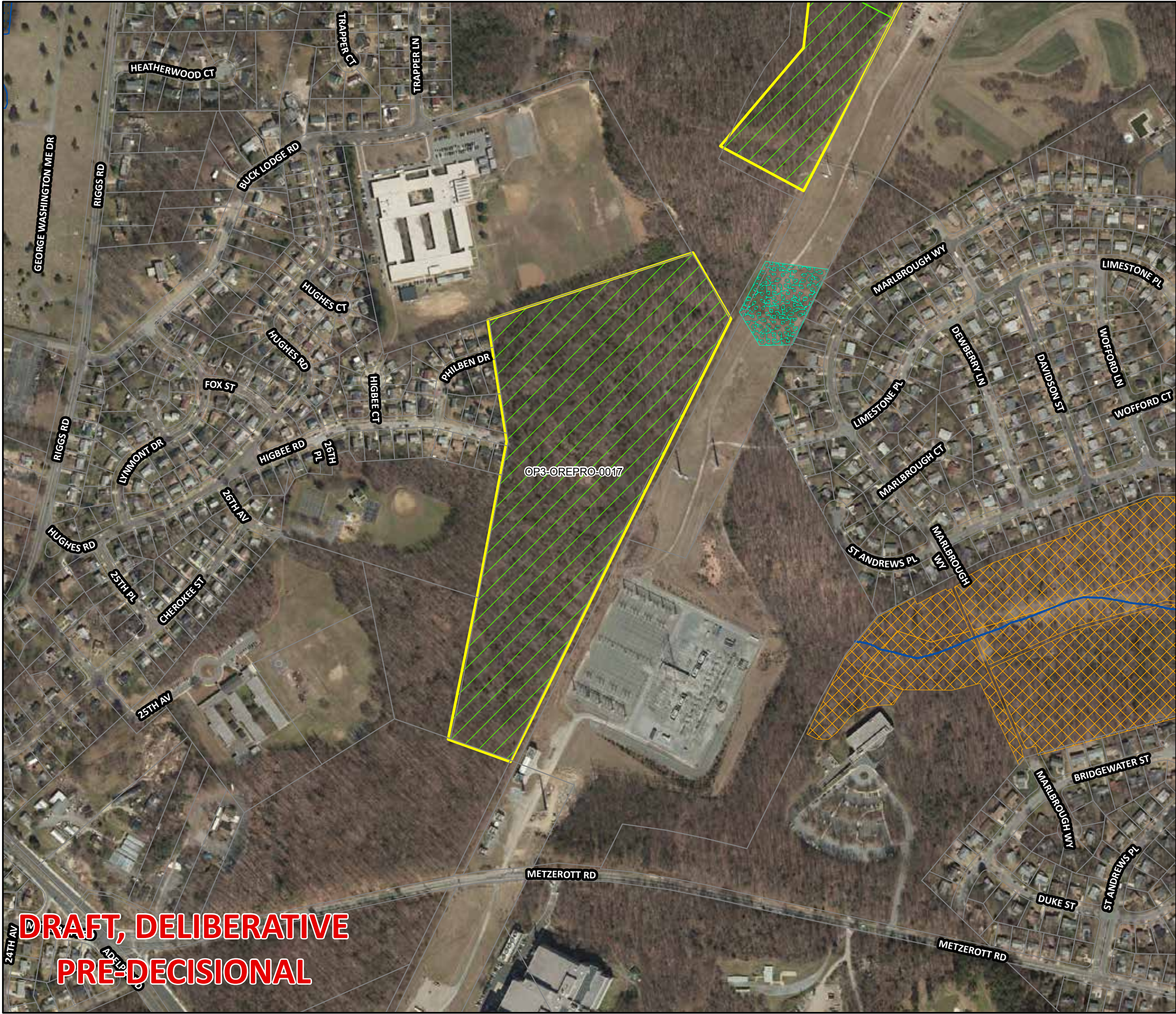
**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**





**OP3-OREPRO-0016: MDOT Excess Lands**



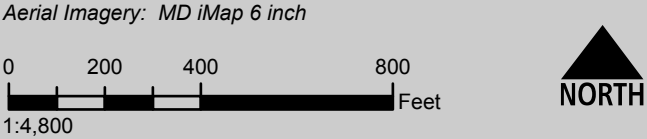


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Retention Site**  
**Prince George's County**  
**Washington Metropolitan Watershed**  
**SITE ID = OP3-OREPRO-0017**

Property Owner: MDOT SHA  
Description: Excess Lands  
Site Acres = 27.81  
Total Potential Credit Acres\* =13.94  
Plantable Acres\*\* =0  
Preservable Acres\* = 27.87

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Mid to late succession forest. High retention value due to FIDS habitat and cultural resources. Spring observed.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



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**PRE-DECISIONAL**





**OP3-OREPRO-0017: MDOT Excess Lands**





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Retention Site**  
**Montgomery County**  
Washington Metropolitan Watershed  
**SITE ID = OP3-OREPRO-0022**

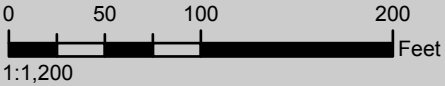
Property Owner: MDOT SHA  
Description: Excess Lands  
Site Acres = 3.31  
Total Potential Credit Acres\* = 1.29  
Plantable Acres\*\* = 0  
Preservable Acres\* = 2.58

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Mid succession forest. Minor herbaceous invasives and some woody vines into crown.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**

September 2020

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I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Retention Site**  
**Montgomery County**  
**Washington Metropolitan Watershed**  
**SITE ID = OP3-OREPRO-0023**

**Property Owner:** MDOT SHA  
**Description:** Excess Lands  
**Site Acres = 5.67**  
**Total Potential Credit Acres\* = 2.56**  
**Plantable Acres\*\* = 0**  
**Preservable Acres\* = 5.13**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Mid to late succession forest. Minimal invasive species and intermittent streams present. ICC Reforestation area excluded.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**





**OP3-OREPRO-0023: MDOT Excess Lands**





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Retention Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = OP3-OREPRO-0024**

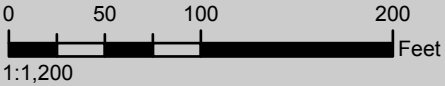
**Property Owner:** MDOT SHA  
**Description:** Excess Lands  
**Site Acres = 5.39**  
**Total Potential Credit Acres\* = 2.69**  
**Plantable Acres\*\* = 0**  
**Preservable Acres\* = 5.39**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Mid to late succession forest, few specimen trees.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

Aerial Imagery: MD iMap 6 inch



**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**



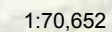
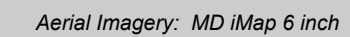


**OP3-OREPRO-0024:** MDOT Excess Lands



**Property Owner: MDOT SHA**  
**Description: Excess Lands**  
**Site Acres = 13.23**  
**Total Potential Credit Acres\* =5.99**  
**Plantable Acres\*\* =0**  
**Preservable Acres\* = 11.98**

**Notes:** Mid to late succession forest with low invasives. Perennial stream and wetlands present.

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PRE-DECISIONAL**





**OP3-OREPRO-0025: MDOT Excess Lands**





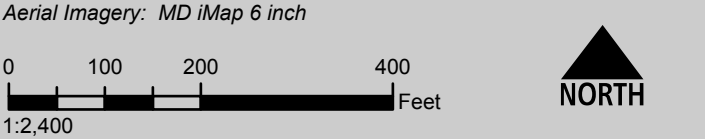
I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Retention Site**  
**Anne Arundel County**  
**Patuxent River Watershed**  
**SITE ID = OP3-OREPRO-0026**

**Property Owner:** MDOT SHA  
**Description:** Excess Lands  
**Site Acres = 13.99**  
**Total Potential Credit Acres\* = 7**  
**Plantable Acres\*\* = 0**  
**Preservable Acres\* = 13.99**

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Early to mid-succession forest with minimal invasive species. Wetlands, perennial and intermittent streams present.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |

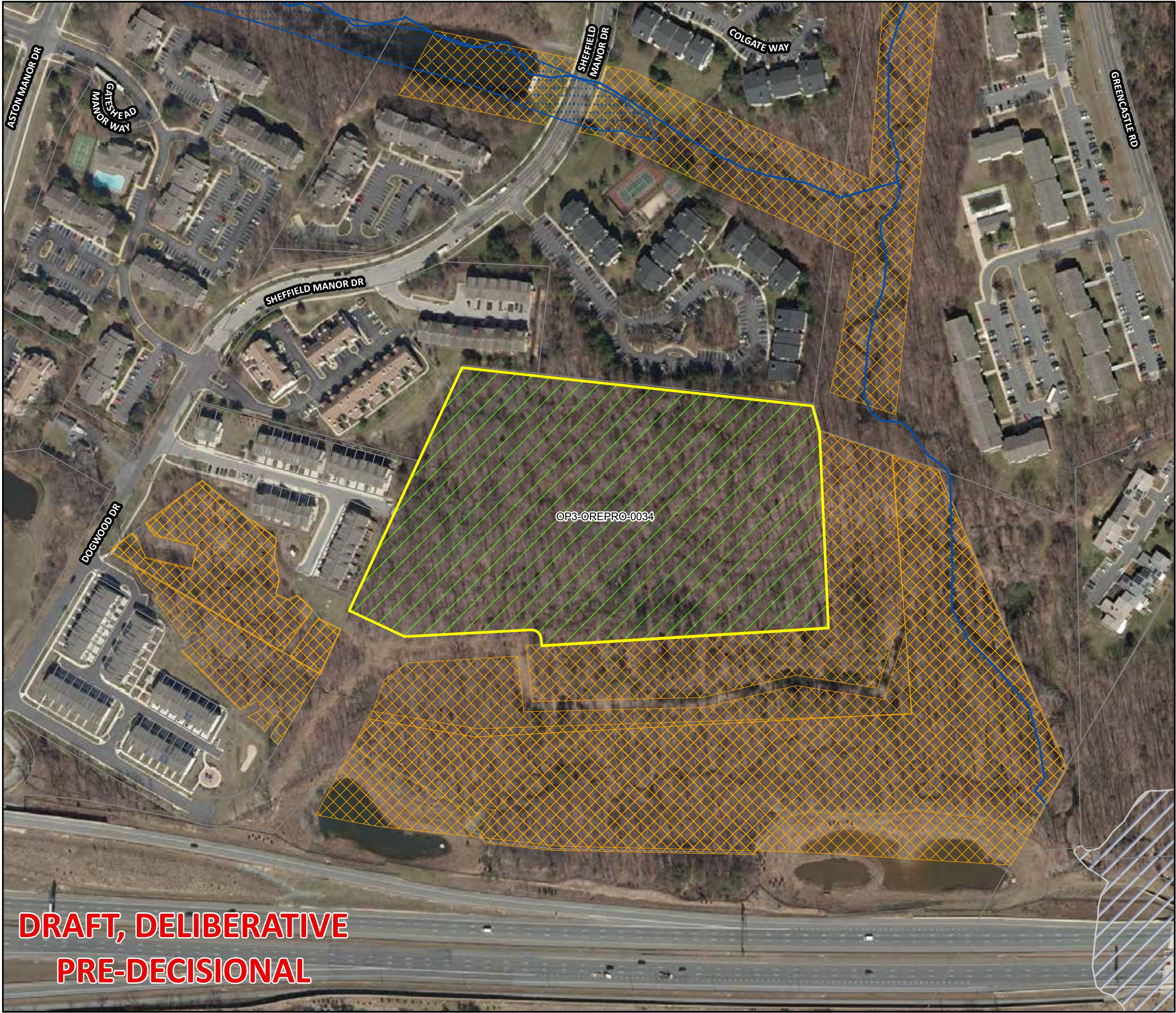






**OP3-OREPRO-0026: MDOT Excess Lands**



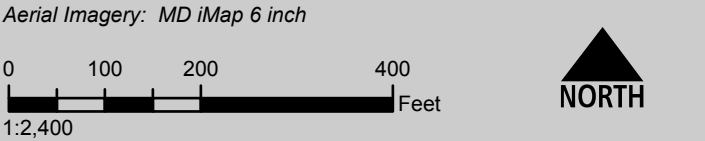


I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Retention Site**  
**Montgomery County**  
**Washington Metropolitan Watershed**  
**SITE ID = OP3-OREPRO-0034**

Property Owner: MDOT SHA  
Description: Excess Lands  
Site Acres = 10.68  
Total Potential Credit Acres\* = 5.33  
Plantable Acres\*\* = 0  
Preservable Acres\* = 10.65

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Mid succession forest. Existing M-NCPPC FC easement excluded from retention area.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**





**OP3-OREPRO-0034:** MDOT Excess Lands





I-495 & I-270 MLS Reforestation Law Mitigation  
**Recommended Forest Retention Site**  
**Prince George's County**  
**Patuxent River Watershed**  
**SITE ID = OP3-OREPRO-0108, 0142, 0143**

Property Owner: MDOT SHA  
Description: Excess Lands  
Site Acres = 7.59  
Total Potential Credit Acres\* = 3.44  
Plantable Acres\*\* = 0  
Preservable Acres\* = 6.87

\*Credit acres assume a 1:1 credit ratio for planting sites and a 1:2 ratio for retention sites (1 acre of credit for every 2 acres of forest retention).  
\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.  
**Notes:** Mid-succession forest in good condition. Wetlands and Streams present. Evidence of flooding. Forest Retention Area sign observed but PG FCE GIS data does not indicate any FCEs on the parcel.

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| Site Boundary                     | Parcels                          |
| Retention Area                    | Rivers and Streams               |
| Planting Conflicts                | Wetland of Special State Concern |
| 100-Year Floodplain               | DNR Wetlands                     |
| Forest Conservation Act Easements | NWI Wetlands                     |
| Site Access                       |                                  |



**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**





**OP3-OREPRO-0108, OP3-OREPRO-0142, OP3-OREPRO-0143: MDOT Excess Lands**





## APPENDIX C: PUBLIC PARTNER CORRESPONDENCE SUMMARY TABLE





Public Partner Coordination Summary Table						
	#	Property Owner	Property Owner Type	County	Planting Opportunities	Correspondence Summary
FEDERAL	1	Bureau of Engraving and Printing	Federal	Washington D.C.	No	The MLS Team made several unsuccessful attempts to contact the agency. See correspondence in Appendix D.
	2	GSA - White Oak Campus	Federal	Montgomery	No	The MLS Team made several unsuccessful attempts to contact the agency. See correspondence in Appendix D.
	3	NASA Goddard	Federal	Prince George's	Yes	The MLS Team and NASA Goddard coordinated to identify potential reforestation sites. One of the three sites identified did not meet the reforestation criteria. See meeting minutes in Appendix D.
	4	National Institute of Standards and Technology	Federal	Montgomery	No	The MLS Team and NIST coordinated to identify potential reforestation sites. The sites identified by NIST were within an area permitted for stormwater management; therefore, the sites did not meet reforestation criteria. See correspondence in Appendix D.
	5	National Institutes of Health - Bethesda Campus	Federal	Montgomery	No	The MLS Team made several unsuccessful attempts to contact the agency. See meeting minutes in Appendix D.
	6	National Park Service	Federal	All	N/A	Coordination with NPS is ongoing.
	7	U.S. Army	Federal	All	N/A	The MLS team decided not to contact the Army due to potential security concerns related to conducting site visits and reforestation / maintenance efforts.
	8	U.S. Navy	Federal	All	N/A	The MLS team decided not to contact the Army due to potential security concerns related to conducting site visits and reforestation / maintenance efforts.
	9	USDA Beltsville Agriculture Research Center	Federal	Prince George's	Yes	The MLS Team coordinated with USDA BARC to identify potential planting sites on the BARC campus. Due to other BARC priorities and commitments, only 3 sites were ultimately determined to be viable as MLS mitigation sites. See BARC meeting minutes and correspondence in Appendix D.
	10	USDA George Washington Carver Center	Federal	Prince George's	Yes	The MLS Team and USDA coordinated to identify potential planting sites at the George Washington Carver Center campus. A total of 8 sites were determined to be potentially viable, but USDA can not commit to the planting sites until the GWCC renovation project is further along, in mid- to late- 2021. See meeting minutes and correspondence summary in Appendix D.
	11	USFWS Patuxent Research Refuge	Federal	Prince George's	Yes	The MLS Team coordinated with USFWS to identify potential planting sites at the Patuxent Research Refuge. A total of 13 sites were determined to be potentially viable. See meeting minutes in Appendix D.
STATE	12	Maryland Department of Natural Resources	State	All	Yes	The MLS Team coordinated with DNR Park Service staff to identify potential planting sites at Patuxent State Park, Seneca Creek State Park, Greenwell State Park, Rosaryville State Park and the adjacent Wood Property, which DNR is in the process of acquiring. Planting opportunities were also identified by Park Service staff at Newtowne Neck SP in the Lower Potomac Watershed, but DNR Forest Service would need to approve a variance to allow MLS planting in an adjacent watershed for Reforestaiton Law mitigation. See correspondence, meeting minutes, PIF applications and PIF responses in Appendix D.
LOCAL	13	Anne Arundel Community College	Public Community College	Anne Arundel	No	The MLS Team made several unsuccessful attempts to contact the College See correspondence in Appendix D.
	14	Anne Arundel County Department of Recreation & Parks	County	Anne Arundel	No	The MLS Team reached out to the Department of Recreation and Parks. The department declined stating that they do not have any reforestation opportunities.
	15	Anne Arundel County Public Schools	County Public Schools	Anne Arundel	No	The MLS Team reached out to the School District. The School District declined stating that they do not have any reforestation opportunities. See correspondence in Appendix D.
	16	Berwyn Heights	Municipality	Prince George's	No	The MLS Team made several unsuccessful attempts to contact the municipality.
	17	Bladensburg	Municipality	Prince George's	No	The MLS Team made several unsuccessful attempts to contact the municipality. See correspondence in Appendix D.
	18	Bowie	Municipality	Prince George's	No	The MLS Team reached out to the City of Bowie. The City of Bowie does not have any reforestation sites available for MLS mitigation.
	19	Bowie State University	Public University	Prince George's	No	MLS Team made several unsuccessful attempts to contact the University. See correspondence in Appendix D.





Public Partner Coordination Summary Table						
	#	Property Owner	Property Owner Type	County	Planting Opportunities	Correspondence Summary
LOCAL	20	Calvert County Department of Parks & Rec	County	Calvert	No	The MLS Team reached out to the Department of Recreation and Parks. The department declined stating that they do not have any reforestation opportunities. See correspondence in Appendix D
	21	Calvert County Public Schools	County Public Schools	Calvert	No	The MLS Team reached out to the School District. The School District declined stating that they do not have any reforestation opportunities.
	22	City of Gaithersburg	Municipality with > 50 ac park land	Montgomery	No	The MLS Team coordinated with the City of Gaithersburg, but the City does not have any planting opportunities available. See correspondence in Appendix D.
	23	City of Rockville	Municipality with > 50 ac park land	Montgomery	No	The MLS Team coordinated with the City of Rockville, but the City does not have any planting opportunities available. See meeting summary in Appendix D.
	24	College of Southern Maryland	Public Community College	Calvert	No	MLS Team made several unsuccessful attempts to contact the College.
	25	College Park	Municipality	Prince George's	No	The MLS Team met with representatives from the City of College Park and M-NCPPC Prince George's staff via MS Teams on June 5, 2020 to discuss potential forest mitigation sites on M-NCPPC parkland in the City of College Park. No sites were identified. See meeting minutes in Appendix D.
	26	Colmar Manor	Municipality	Prince George's	No	The MLS Team reached out to Colmar Manor. The municipality does not have any reforestation opportunities. See correspondence in Appendix D.
	27	Cottage City	Municipality	Prince George's	No	The MLS Team reached out to Cottage City. The municipality does not have any reforestation opportunities. See correspondence in Appendix D.
	28	District Heights	Municipality	Prince George's	No	MLS Team made several unsuccessful attempts to contact the municipality. See correspondence in Appendix D.
	29	Eagle Harbor	Municipality	Prince George's	No	The MLS Team made several unsuccessful attempts to contact the municipality. See correspondence in Appendix D.
	30	Edmonston	Municipality	Prince George's	No	The MLS Team made several unsuccessful attempts to contact the municipality. See correspondence in Appendix D.
	31	Fairmount Heights	Municipality	Prince George's	No	The MLS Team made several unsuccessful attempts to contact the municipality. See correspondence in Appendix D.
	32	Forest Heights	Municipality	Prince George's	No	The MLS Team made several unsuccessful attempts to contact the municipality. See correspondence in Appendix D.
	33	Garrett Park	Municipality	Montgomery	No	The MLS Team and Garrett Park coordinated to identify sites for reforestation. The proposed site did not meet reforestation criteria. See correspondence in Appendix D.
	34	Glen Echo	Municipality	Montgomery	No	The MLS Team and Glen Echo coordinated to identify sites for reforestation. The proposed site did not meet reforestation criteria. See correspondence in Appendix D.
	35	Glenarden	Municipality	Prince George's	No	The MLS Team made several unsuccessful attempts to contact the municipality.
	36	Howard Community College	Public Community College	Howard	No	The MLS Team reached out to the College. The College does not have any additional reforestation opportunities. See correspondence in Appendix D.
	37	Howard County Public Schools	County Public Schools	Howard	No	The MLS Team made several unsuccessful attempts to contact the School District. See correspondence in Appendix D.
	38	Howard County Recreation and Parks	County	Howard	No	The MLS Team reached out to the Department of Recreation and Parks. The department does not have any reforestation opportunities. See correspondence in Appendix D.
	39	Hyattsville	Municipality	Prince George's	No	The MLS Team coordinated with Hyattsville about potential reforestation areas. The MLS team was informed that the town was in the process of updating its Urban Tree Canopy Study, but experienced delays in the process due to Covid-19. The MLS team made several unsuccessful attempts to follow-up. See correspondence in Appendix D.
	40	Kensington	Municipality	Montgomery	No	The MLS Team made several unsuccessful attempts to contact the municipality. See correspondence in Appendix D.
	41	Landover Hills	Municipality	Prince George's	No	The The MLS Team reached out to Landover Hills. The municipality declined, stating that they did not have any available sites.
	42	Laurel	Municipality	Prince George's	No	The MLS Team made several unsuccessful attempts to contact the municipality. See correspondence in Appendix D.
	43	Laytonsville	Municipality	Montgomery	No	The MLS Team reached out to Laytonsville. The town clerk notified the team that the town had no reforestation opportunities. See correspondence in Appendix D.
	44	Martins Addition	Municipality	Montgomery	No	The MLS Team made several unsuccessful attempts to contact the municipality. See correspondence in Appendix D.





Public Partner Coordination Summary Table						
	#	Property Owner	Property Owner Type	County	Planting Opportunities	Correspondence Summary
LOCAL	45	M-NCPPC Montgomery	County	Montgomery	Yes	The MLS Team coordinated with M-NCPPC Montgomery County to identify potential planting sites on M-NCPPC property. A desktop review meeting was conducted on June 29, 2020 with M-NCPPC Montgomery County staff to discuss potential forest mitigation sites. The MLS Team conducted field reviews of potential sites on 7/8/20 and 7/27/20. Six suitable sites were identified on four park properties. See correspondence and a memorandum documenting guidance for use of parkland properties to meet state forest mitigation requirements in Appendix D.
	46	M-NCPPC Prince George's	County	Prince George's	No	The MLS Team coordinated with M-NCPPC Prince George's County. No viable mitigation sites were identified. See meeting summary and correspondence in Appendix D.
	47	Montgomery College	Public Community College	Montgomery	No	The MLS Team coordinated with Montgomery College. The Facilities department stated an evaluation of reforestation opportunities would take place. The MLS Team attempted to contact the facilities POC regarding the outcome of the evaluation, but received no response. See correspondence in Appendix D.
	48	Montgomery County Public Schools	County Public Schools	Montgomery	No	The MLS Team reached out to the MCPS, but did not receive a response. See correspondence in Appendix D.
	49	Morningside	Municipality	Prince George's	No	The MLS Team made several unsuccessful attempts to contact the municipality. See correspondence in Appendix D.
	50	Mount Rainier	Municipality	Prince George's	No	The MLS Team reached out to Mount Rainier. The municipality declined stating that they did not have any available sites.
	51	New Carrollton	Municipality	Prince George's	No	The MLS Team coordinated with New Carrollton to identify potential reforestation sites; however the sites identified did not meet reforestation criteria.
	52	North Brentwood	Municipality	Prince George's	No	The MLS Team made several unsuccessful attempts to contact the municipality. See correspondence in Appendix D.
	53	North Chevy Chase	Municipality	Montgomery	No	The MLS Team and North Chevy Chase coordinated to identify sites for reforestation. The proposed site did not meet reforestation criteria. See correspondence in Appendix D.
	54	Poolesville	Municipality	Montgomery	No	The MLS Team coordinated with Poolesville. The topic of creating a forest bank was set to be discussed at a Town Meeting in March. The March meeting was canceled due to corona virus. Communication with the town was unsuccessful in following months.
	55	Prince George's Community College	Public Community College	Prince George's	No	The MLS Team made several unsuccessful attempts to contact the College.
	56	Prince George's County Public Schools	County Public Schools	Prince George's	No	The MLS Team reached out to the PGCPs, but did not receive a response.
	57	Riverdale Park	Municipality	Prince George's	No	The Town of Riverdale Park recommended coordinating with M-NCPPC Prince George's to identify planting opportunities. The MLS Team met with M-NCPPC Prince George's staff on 5/29/20 to discuss potential forest mitigation sites on M-NCPPC parkland in and around the Town of Riverdale Park. No sites were identified in Riverdale Park. See M-NCPPC Prince George's correspondence in Appendix D.
	58	Saint Mary's Department of Recreation & Parks	County	St. Mary's	No	The MLS Team reached out to the Department of Recreation and Parks. The department does not have any reforestation opportunities. See correspondence in Appendix D.
	59	Seat Pleasant	Municipality	Prince George's	No	The MLS Team made several unsuccessful attempts to contact the municipality. See correspondence in Appendix D.
	60	Somerset	Municipality	Montgomery	No	The MLS Team made several unsuccessful attempts to contact the municipality. See correspondence in Appendix D.
	61	St. Mary's County Public Schools	County Public Schools	St. Mary's	No	The MLS Team made several unsuccessful attempts to contact the School District. See correspondence in Appendix D.
	62	Takoma Park	Municipality	Montgomery	No	The MLS Team reached out to Takoma Park. The City does not have undeveloped land available for reforestation. See correspondence in Appendix D.
	63	University of Maryland	Public University	Prince George's	No	The MLS Team reached out to University of Maryland. The University stated that their forest bank resources are planned to meet current and future university development needs. See correspondence in Appendix D.
	64	Washington Grove	Municipality	Montgomery	No	The MLS Team made several unsuccessful attempts to contact the municipality. See correspondence in Appendix D.
	65	Washington Suburban Sanitary Commission	Public Utility	Prince George's/Montgomery	No	The MLS Team reached out to WSSC. WSSC does not have any land available due to internal WSSC planting commitments. See correspondence in Appendix D.





## APPENDIX D: DOCUMENTATION OF PUBLIC PARTNER COORDINATION



**From:** [Marra, Michael](#)  
**To:** [Stephanie.Bellanger@bep.gov](mailto:Stephanie.Bellanger@bep.gov)  
**Cc:** [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities  
**Date:** Thursday, August 20, 2020 7:55:00 AM  
**Attachments:** [image005.png](#)  
[image006.png](#)  
[image008.png](#)  
[image009.png](#)

Good morning Ms. Bellanger,

I just wanted to send a quick follow-up on Seth's email to see if you have had a chance to look into potential forest mitigation opportunities on properties owned by Bureau of Engraving and Printing. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

 <p>Applying Practical Science to Improve Communities</p>	<p><b>Michael Marra</b>  <b>Environmental Scientist</b>  Resource Assessment &amp; Permitting  <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a>  cell: (302) 290-9245</p>	 <p>25 CEM est. 1993</p>
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**From:** Hinder, Seth

**Sent:** Wednesday, March 25, 2020 1:46 PM

**To:** [Stephanie.Bellanger@bep.gov](mailto:Stephanie.Bellanger@bep.gov)

**Cc:** Marra, Michael <[mmarra@cemsience.com](mailto:mmarra@cemsience.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Subject:** I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities



Dear Stephanie Bellanger,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the Bureau of Engraving and Printing. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Seth Hinder

Consultant for Maryland Department of Transportation, State Highway Administration

Email: [shinder@cemsience.com](mailto:shinder@cemsience.com)

Cell: (410) 983-1239

---



Applying Practical Science to Improve Communities

**Seth Hinder**  
**Staff Scientist**  
 Resource Assessment & Permitting  
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**From:** [Marra, Michael](#)  
**To:** [darren.destefano@gsa.gov](mailto:darren.destefano@gsa.gov)  
**Cc:** ["Christina Brandt \(cbrandt@mdot.maryland.gov\)"; "gohare@rkk.com"; "Anita Alexander"; "Kate Gordon"](#)  
**Subject:** I-495/I-270 MLS Reforestation Mitigation  
**Date:** Thursday, August 13, 2020 1:06:00 PM  
**Attachments:** [image002.png](#)  
[image003.png](#)

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Dear Mr. DeStefano,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by GSA- White Oak Campus. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

---

 <p><b>CEM</b></p> <p><i>Applying Practical Science to Improve Communities</i></p>	<p><b>Michael Marra</b>  <b>Environmental Scientist</b>  Resource Assessment &amp; Permitting  <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a>  cell: (302) 290-9245</p>	 <p><b>25</b>  <b>CEM</b>  est. 1993</p>
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## I-495 & I-270 Managed Lanes Study

### Potential Reforestation Mitigation Site Opportunities at NASA Goddard Space Flight Center

June 10, 2020 @ 10:00am

A desktop review meeting was conducted on June 10, 2020 with NASA Goddard to discuss potential planting opportunities for reforestation mitigation credits needed for the I-495 & I-270 Managed Lanes Study (MLS). A summary of the topics discussed at the meeting follows.

#### Introductions

Participants met online via Microsoft Teams for a video call. The meeting began with introductions, followed by a brief summary of the Maryland Department of Transportation State Highway Administration (MDOT SHA) Public-Private Partnership (P3) program, I-495 & I-270 MLS project goals, the role of the developer, and overall project schedule. Kate Gordon explained the Maryland Reforestation Law and its relevance for this project. Irene Romero and James Vatne explained NASA's legal concerns regarding third-party agreements. Then the group reviewed two potential planting areas vetted by the NASA team and one additional site in Google Maps and discussed the viability of each site. NASA is currently under their Stage 4 response for COVID, so no non-essential visits are permitted at this time.

#### General Comments

- The NASA Goddard Space Flight Center is located within the Washington Metropolitan Watershed in Prince George's County, just east of the I-295 and MD-193 interchange in Greenbelt, MD.
- The MLS team contacted NASA Goddard to identify potential offsite planting opportunities on public lands within the counties and watersheds affected by the MLS project for compliance with the Maryland Reforestation Law.
- The MLS Team is conducting an initial reforestation mitigation site search, documenting potential planting sites and any requests public partners have. Further refinement of mitigation sites and finalization of the third-party agreements will be done once the developer is on board.
- Irene mentioned that NASA Goddard was approached by SHA in the past for the ICC project. There was language in the ICC third-party agreements that they could not accept as a federal agency. The main concern was regarding the choice of law and perpetuity of the agreements. James Vatne mentioned that the Department of Justice does not allow federal agencies like NASA to be subject to state laws.
- NASA cannot provide a long-term commitment for forest planting because Congress may require NASA to allocate portions of their properties for future planning needs.
- Kate clarified that the language of the Maryland Reforestation Law does not specify perpetuity, though the specific requirements for the MLS project are still under discussion with Maryland Department of Natural Resources (MDNR). The MLS team has been able to partner with other federal agencies such as BARC in the past. The MLS team is flexible on language in third-party agreements at this time, no templates have been finalized. Agreements may be worded to clarify that NASA is not subject to the Maryland Reforestation Law for the MLS, but rather agreeing to accept reforestation mitigation on their property as a large landowner in one of the affected counties and MDE 6-digit watersheds for MDOT SHA.
- NASA and MDOT SHA can mutually benefit from fulfillment of mitigation requirements on NASA properties.
- Maintenance agreements will be finalized at a later time when the developer is on board.

#### Planting Opportunities

- Irene provided an overview of the NASA Goddard Campus in Google Earth, explaining that the majority of





## NASA Forest Mitigation Desktop Review

June 10, 2020

the campus is wooded and there are no planting areas available on the main loop around campus. Irene identified three potential planting opportunities on NASA property outside of the main campus based on NASA's institutional master plan.

- The first site available for planting is a soil spoil area located north of Good Luck Road to the east of the intersection with Soil Conservation Road. The area was last used for spoil disposal a few years ago and has remained undisturbed since then, with natural regeneration starting to colonize the site. NASA does not have any planned future use for the site according to their master plan and the site is easily accessible outside of the main campus security fence. The surrounding community would likely support reforestation planting in this area because there have been complaints about stormwater runoff from this field. This site provides approximately 5 acres of contiguous planting opportunity. See the site location identified as NASA\_01 on the attached mapping.
- The second site is located south of Soil Conservation Road to the east of the intersection with Hubble Road. This area was previously a beaver dam/weir pond, with beaver likely still present in the area. Debris previously kept in this area has been cleared. Irene will confirm with NASA staff management whether this area is viable for reforestation. A wetland delineation will need to be conducted to ensure proposed planting boundaries are outside of existing wetlands. This site provides approximately 4.28 acres of contiguous planting opportunity. See site location identified as NASA\_02 on the attached mapping.
- Irene mentioned that the building and surrounding open area north of NASA\_02 may be available for planting, depending on future research plans. Irene will inquire about its availability for planting. This 1.39-acre area is shown as NASA\_03 on the attached mapping.

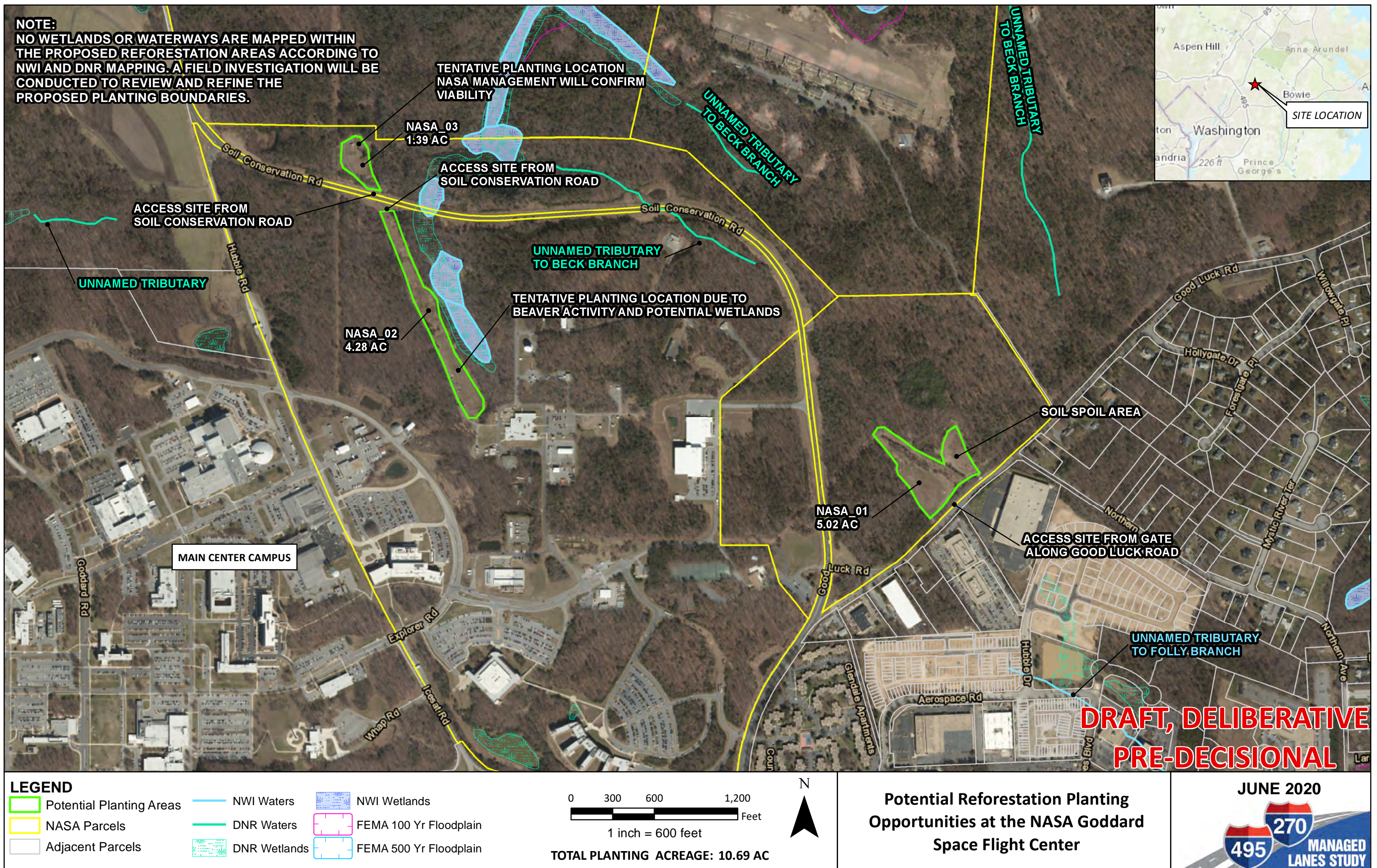
### Action Items

- MDOT SHA will develop preliminary mapping that shows potential planting areas, access notes, and general site notes for NASA to review and approve. *Mapping is attached.*
- Irene will contact the MLS team when a site visit can be conducted.
- NASA management has approved NASA\_01 for use as a reforestation area. Irene will confirm viability of planting NASA\_02 and NASA\_03.

### Attendees:

Name	Agency	Email
Irene Romero	NASA Goddard, Facilities Planning	<a href="mailto:irene.j.romero@nasa.gov">irene.j.romero@nasa.gov</a>
James Vatne	NASA Goddard, Legal Counsel	<a href="mailto:james.a.vatne@nasa.gov">james.a.vatne@nasa.gov</a>
Kate Gordon	MDOT SHA/RK&K	<a href="mailto:kgordon@rkk.com">kgordon@rkk.com</a>
Anita Alexander	MDOT SHA/RK&K	<a href="mailto:aalexander@rkk.com">aalexander@rkk.com</a>







**From:** [Marra, Michael](#)  
**To:** [mike.blackman@nist.gov](mailto:mike.blackman@nist.gov); [john.r.bollinger@nist.gov](mailto:john.r.bollinger@nist.gov)  
**Cc:** "Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov))"; "Anita Alexander"; "Kate Gordon"; "[gohare@rkk.com](mailto:gohare@rkk.com)"  
**Subject:** RE: I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities  
**Date:** Thursday, August 20, 2020 9:22:57 AM  
**Attachments:** [image011.png](#)  
[image012.png](#)  
[image005.png](#)  
[image006.png](#)

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Good Morning Mike an John,

It has been a quite a while and a lot has happened since we last spoke earlier this year! I hope you have both been safe and well.

I believe the last time we corresponded, Seth explained that the MLS Reforestation team determined that we could not utilize space permitted to address stormwater management. I just wanted to reach out one more time to determine if you may have other reforestation planting opportunities on site.

Again, I hope all is well. I look forward to your response.

Thanks,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

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 <small>Applying Practical Science to Improve Communities</small>	<b>Michael Marra</b> <b>Environmental Scientist</b> Resource Assessment & Permitting <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a> cell: (302) 290-9245	 <small>est. 1993</small>
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**From:** [Hinder, Seth](#)  
**To:** ["john.r.bollinger@nist.gov"](#); ["Mike.blackmon@nist.gov"](#)  
**Cc:** [Marra, Michael](#); ["Anita Alexander"](#); ["Kate Gordon"](#); ["gohare@rkk.com"](#); ["cbrandt@mdot.maryland.gov"](#)  
**Subject:** I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities  
**Date:** Friday, February 28, 2020 1:44:00 PM  
**Attachments:** [image007.jpg](#)  
[image008.png](#)  
[image009.png](#)

---

Afternoon Mike and John,

I wanted to follow-up with both of you to determine if NIST is still interested in SHA Forest Mitigation Opportunities. I would be happy to answer any questions that may have arisen since we last spoke.

I look forward to hearing back from you.

Thanks,

Seth

CEM\_Logo\_FullMetal



**Seth Hinder**

**Staff Scientist**

Resource Assessment & Permitting

[shinder@cemscience.com](mailto:shinder@cemscience.com)

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**From:** Hinder, Seth

**Sent:** Tuesday, February 11, 2020 11:45 AM

**To:** mike.blackman@nist.gov; john.r.bollinger@nist.gov

**Cc:** Marra, Michael <mmarra@cemscience.com>; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>; gohare@rkk.com; cbrandt@mdot.maryland.gov

**Subject:** I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities

Good morning Mike and John,

I wanted to get back to both of you about the questions you raised yesterday in our phone call.

After conferring with RKK, it was determined that SHA cannot benefit from planting acres that are already included in a permit to address the storm water management control associated with your Master Plan.

However, SHA may still be able to assist with plantings that are not pursuant to the required acres associated with the SWM credits.

Additionally, SHA is interested in any possible planting areas, 5 acres or larger, that NIST does not currently have plans for.

Please let us know if any such opportunities are available and feel free to reach out if you have any more questions or concerns.

Thanks,

Seth Hinder

---



**Seth Hinder**  
**Staff Scientist**  
Resource Assessment & Permitting  
[shinder@cemscience.com](mailto:shinder@cemscience.com)  
cell: (410) 983-1239



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**From:** [Vaughn, Skip \(Fed\)](#)  
**To:** [Hinder, Seth](#)  
**Subject:** RE: I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities  
**Date:** Friday, February 07, 2020 1:47:20 PM  
**Attachments:** [image001.jpg](#)  
[image002.png](#)  
[image003.png](#)

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Seth,

As part of the NIST Master Plan, we have a very significant increase in tree plantings planned. We need to install roughly \$1M worth of trees to complete the reforestation plan for our Gaithersburg, MD campus so we can definitely provide a large opportunity for the MDOT SHA to do plantings on our property. I would greatly welcome the opportunity to meet with your office to determine what can be done to be beneficial to both parties.

Thanks,  
Skip

Sincerely,  
*R. C. "Skip" Vaughn*  
 Director, Office of Facilities and Property Management  
 Chief Facilities Management Officer  
 National Institute of Standards and Technology

Cell: (240) 620-1664  
 E-Mail: [Skip.Vaughn@NIST.gov](mailto:Skip.Vaughn@NIST.gov)

---

**From:** Hinder, Seth <SHinder@cemsience.com>  
**Sent:** Friday, February 7, 2020 9:02 AM  
**To:** Vaughn, Skip (Fed) <robert.vaughn@nist.gov>  
**Subject:** I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities

Dear Robert Vaughn,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the



project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the National Institute of Standards and Technology. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Seth Hinder

Consultant for Maryland Department of Transportation, State Highway Administration

Email: [shinder@cemscience.com](mailto:shinder@cemscience.com)

Cell: (410) 983-1239

<p>CEM_Logo_FullMetal</p> 	<p><b>Seth Hinder</b>  <b>Staff Scientist</b>  Resource Assessment &amp; Permitting  <a href="mailto:shinder@cemscience.com">shinder@cemscience.com</a>  cell: (410) 983-1239</p>	
<p>42 N. Main Street   Bel Air, MD 21014  phone: 410.893.9016   Visit us at <a href="http://www.cemscience.com">www.cemscience.com</a></p> <p><i>This email may contain confidential information intended for the sole use of the recipient.  Unauthorized use of this information is prohibited. If you received this email in error please notify sender.  Thank you!</i></p> 		



**From:** [Hinder, Seth](#)  
**To:** ["susan.roberts@nih.gov"](mailto:susan.roberts@nih.gov)  
**Subject:** I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities  
**Date:** Friday, February 07, 2020 8:50:00 AM  
**Attachments:** [image002.jpg](#)  
[image004.png](#)  
[image006.png](#)

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Dear Susan Roberts,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by National Institute of Health. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Seth Hinder

Consultant for Maryland Department of Transportation, State Highway Administration

Email: [shinder@cemsience.com](mailto:shinder@cemsience.com)

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**Seth Hinder**

**Staff Scientist**

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**Anita Alexander**

---

**From:** Seneviratne, Sarath <Sarath.Seneviratne@usda.gov>  
**Sent:** Monday, September 14, 2020 3:58 PM  
**To:** Kate Gordon; Bynum, Lisa; Blomberg, LeAnn  
**Cc:** Irechukwu, Chizo; Joyner, Claudette; Greg OHare; Anita Alexander; 'Bob Maimone'  
**Subject:** RE: BARC Response Summary of Proposed I495-I270 Reforestation Sites August 7 2020

Hi Kate

We would recommend the planting, but must get confirmation from Le Ann. She is cc here. The full reforestation is dependent on the removal of the building by 2022 and anticipate having to start the planting for their mitigation. However we need confirmation from management and BARC Real Property Group.

Building 44 is on the demo list and addressed by Programmatic Agreement with MHT ((Maryland Historical Trust)

Sarath

---

**From:** Kate Gordon <kgordon@rkk.com>  
**Sent:** Monday, September 14, 2020 10:54 AM  
**To:** Bynum, Lisa <lisa.bynum@usda.gov>; Seneviratne, Sarath <Sarath.Seneviratne@usda.gov>  
**Cc:** Irechukwu, Chizo <chizo.irechukwu@usda.gov>; Joyner, Claudette <claudette.joyner@usda.gov>; Seneviratne, Sarath <Sarath.Seneviratne@usda.gov>; Greg OHare <gohare@rkk.com>; Anita Alexander <aalexander@rkk.com>; 'Bob Maimone' <bob@blackwaterenvironmentalgroup.com>  
**Subject:** RE: BARC Response Summary of Proposed I495-I270 Reforestation Sites August 7 2020

Hi Sarath,

Just following up on this inquiry. We are assuming that the northern planting polygons identified below as part of BARC-07 could be planted without requiring building demolition by MDOT SHA. Could you please confirm?

We understand that building 053 has been demolished and building 044 will be demolished by BARC in/around 2022, after completion of the EA.

Here's a snip of the final proposed BARC-07 planting area. The total acreage is 1.89 acres.





Thank you!

- Kate

---

**From:** Kate Gordon

**Sent:** Friday, September 4, 2020 4:38 PM

**To:** 'Bynum, Lisa' <[lisa.bynum@usda.gov](mailto:lisa.bynum@usda.gov)>

**Cc:** Irechukwu, Chizo <[chizo.irechukwu@usda.gov](mailto:chizo.irechukwu@usda.gov)>; Joyner, Claudette <[claudette.joyner@usda.gov](mailto:claudette.joyner@usda.gov)>; Seneviratne, Sarath <[Sarath.Seneviratne@usda.gov](mailto:Sarath.Seneviratne@usda.gov)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; 'Bob Maimone' <[bob@blackwaterenvironmentalgroup.com](mailto:bob@blackwaterenvironmentalgroup.com)>

**Subject:** RE: BARC Response Summary of Proposed I495-I270 Reforestation Sites August 7 2020

Hi Lisa,

Thanks so much for getting back to me today.

Sarath,

If building 017 is not going to be demolished, do you know whether we could still move forward with reforestation planting at the two northern polygons shaded in green below (1.72 ac + 0.17 ac = 1.89 ac total), after demolition of Building 044 and completion of the EA?





Thank you! Enjoy your Labor Day weekend!

- Kate

**From:** Bynum, Lisa <[lisa.bynum@usda.gov](mailto:lisa.bynum@usda.gov)>

**Sent:** Friday, September 4, 2020 1:28 PM

**To:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Cc:** Irechukwu, Chizo <[chizo.irechukwu@usda.gov](mailto:chizo.irechukwu@usda.gov)>; Joyner, Claudette <[claudette.joyner@usda.gov](mailto:claudette.joyner@usda.gov)>; Seneviratne, Sarath <[Sarath.Seneviratne@usda.gov](mailto:Sarath.Seneviratne@usda.gov)>

**Subject:** Fw: BARC Response Summary of Proposed I495-I270 Reforestation Sites August 7 2020

Good afternoon, Kate.



In follow-up to your phone call, I was advised that future discussions related to potential reforestation sites should be directed to Sarath Seneviratne, Safety Officer (copied on this e-mail message).

In response to your inquiries about the status of buildings, I can share with you that Building 053 was demolished in May. Buildings 018 and 044 will be demolished by BARC after completion of the EA and any other necessary compliances. (The physical demolition of these buildings will most likely not occur until 2022, at the earliest).

However, to my knowledge, Building 017 has not been identified for demolition.

Thanks, and have a safe Labor Day Weekend.

Lisa

Lisa Bynum, Realty Specialist

USDA, ARS, BARC, Real Property Section

10300 Baltimore Avenue, Building 426A, Cubicle 8

Beltsville, Maryland 20705-2350

Phone: 301-504-5188

Fax: 301-504-5556

E-Mail: [Lisa.Bynum@usda.gov](mailto:Lisa.Bynum@usda.gov)

---

**From:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Sent:** Friday, September 4, 2020 7:13 AM

**To:** Jackson, Dana <[dana.jackson@usda.gov](mailto:dana.jackson@usda.gov)>

**Cc:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Caryn Brookman (Consultant) <[CBrookman.consultant@mdot.maryland.gov](mailto:CBrookman.consultant@mdot.maryland.gov)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; 'Bob Maimone' <[bob@blackwaterenvironmentalgroup.com](mailto:bob@blackwaterenvironmentalgroup.com)>; Blomberg, LeAnn <[leann.blomberg@usda.gov](mailto:leann.blomberg@usda.gov)>; Harper, Susan - ARS <[susan.harper@usda.gov](mailto:susan.harper@usda.gov)>; Meyers, George <[george.meyers@usda.gov](mailto:george.meyers@usda.gov)>; Cavigelli, Michel <[michel.cavigelli@usda.gov](mailto:michel.cavigelli@usda.gov)>; Blomberg, LeAnn <[leann.blomberg@usda.gov](mailto:leann.blomberg@usda.gov)>; Irechukwu, Chizo <[chizo.irechukwu@usda.gov](mailto:chizo.irechukwu@usda.gov)>; Joyner, Claudette <[claudette.joyner@usda.gov](mailto:claudette.joyner@usda.gov)>; Bynum, Lisa <[lisa.bynum@usda.gov](mailto:lisa.bynum@usda.gov)>; Storozuk, Craig - ARS <[craig.storozuk@usda.gov](mailto:craig.storozuk@usda.gov)>; Seneviratne, Sarath <[Sarath.Seneviratne@usda.gov](mailto:Sarath.Seneviratne@usda.gov)>; Richards, Anthony <[anthony.richards@usda.gov](mailto:anthony.richards@usda.gov)>

**Subject:** RE: BARC Response Summary of Proposed I495-I270 Reforestation Sites August 7 2020

Hi Dana,

Thank you for providing the results of BARC's review of the potential MLS reforestation sites on BARC property.

We will note that the approved sites (BARC-02 and BARC-04) are potential reforestation law mitigation sites in our site search report.



For BARC-07, would it be possible to plant the area shown as BARC-07 A – Alternate in the attached map without demolishing any buildings? Please confirm that building #53 has been removed and that the remaining buildings in that area (17, 18 and 44) will be demolished by BARC after the EA is complete.

In addition to the sites that you noted as denied by BARC due to other programmatic priorities, we plan to drop the following sites from further consideration for reforestation potential:

- BARC-15 & BARC-16 – demolishing buildings is outside of the scope of the reforestation mitigation effort
- BARC-01 & BARC – 09 – we will assume these sites will not be available in the necessary timeframe.

Please let me know if you have any questions or if you would like to talk through our questions on BARC-07.

Thank you!

- Kate

---

**From:** Jackson, Dana <[dana.jackson@usda.gov](mailto:dana.jackson@usda.gov)>

**Sent:** Friday, August 7, 2020 12:48 PM

**To:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Cc:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; 'Christina Brandt' <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; 'Caryn Brookman (Consultant)' <[CBrookman.consultant@mdot.maryland.gov](mailto:CBrookman.consultant@mdot.maryland.gov)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Blomberg, LeAnn <[leann.blomberg@usda.gov](mailto:leann.blomberg@usda.gov)>; Harper, Susan - ARS <[susan.harper@usda.gov](mailto:susan.harper@usda.gov)>; Meyers, George <[george.meyers@usda.gov](mailto:george.meyers@usda.gov)>; Cavigelli, Michel <[michel.cavigelli@usda.gov](mailto:michel.cavigelli@usda.gov)>; Blomberg, LeAnn <[leann.blomberg@usda.gov](mailto:leann.blomberg@usda.gov)>; Irechukwu, Chizo <[chizo.irechukwu@usda.gov](mailto:chizo.irechukwu@usda.gov)>; Joyner, Claudette <[claudette.joyner@usda.gov](mailto:claudette.joyner@usda.gov)>; Bynum, Lisa <[lisa.bynum@usda.gov](mailto:lisa.bynum@usda.gov)>; Storozuk, Craig - ARS <[craig.storozuk@usda.gov](mailto:craig.storozuk@usda.gov)>; Seneviratne, Sarath <[Sarath.Seneviratne@usda.gov](mailto:Sarath.Seneviratne@usda.gov)>; Richards, Anthony <[anthony.richards@usda.gov](mailto:anthony.richards@usda.gov)>

**Subject:** BARC Response Summary of Proposed I495-I270 Reforestation Sites August 7 2020

Hi Kate, after careful review of all of the proposed reforestations sites (16) two sites were approved outright (02 and 04), nine sites were denied outright (03, 05, 06, 08, 10, 11, 12, 13, and 14) because of BARC specific present and future research requirements, and the uncertainty of the SCMAGLEV project. Two sites are temporarily denied (01 and 09) because they are part of BARC CERCLA program. However, these sites might be available in time for consideration during the construction phase. Two additional sites, 015 and 016 will required EA's and demolition by I495/I270 before transfer, and BARC has proposed to alternatives options for the 07 proposed sites. Please feel free to contact Real Property for future discussions. Thanks in advance.

Regards,  
Dana



Dana S Jackson, PG  
Senior Remedial Project Manager (EPS)  
Environmental Management Coordinator  
Agricultural Research Service  
Beltsville Agricultural Research Center  
Safety, Occupational Health, and  
Environmental Staff  
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**From:** [Jackson, Dana](#)  
**To:** [Kate Gordon](#)  
**Cc:** [Greg OHare](#); ["Christina Brandt"](#); ["Caryn Brookman \(Consultant\)"](#); [Anita Alexander](#); [Blomberg, LeAnn](#); [Harper, Susan - ARS](#); [Meyers, George](#); [Cavigelli, Michel](#); [Blomberg, LeAnn](#); [Irechukwu, Chizo](#); [Joyner, Claudette](#); [Bynum, Lisa](#); [Storozuk, Craig - ARS](#); [Seneviratne, Sarath](#); [Richards, Anthony](#)  
**Subject:** BARC Response Summary of Proposed I495-I270 Reforestation Sites August 7 2020  
**Date:** Friday, August 7, 2020 12:48:11 PM  
**Attachments:** [image001.png](#)  
[BARC Response Summary of Proposed I495-I270 Reforestation Sites August 7 2020.pdf](#)

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Hi Kate, after careful review of all of the proposed reforestations sites (16) two sites were approved outright (02 and 04), nine sites were denied outright (03, 05, 06, 08, 10, 11, 12, 13, and 14) because of BARC specific present and future research requirements, and the uncertainty of the SCMAGLEV project. Two sites are temporarily denied (01 and 09) because they are part of BARC CERCLA program. However, these sites might be available in time for consideration during the construction phase. Two additional sites, 015 and 016 will required EA's and demolition by I495/I270 before transfer, and BARC has proposed to alternatives options for the 07 proposed sites. Please feel free to contact Real Property for future discussions. Thanks in advance.

Regards,  
Dana



Dana S Jackson, PG  
Senior Remedial Project Manager (EPS)  
Environmental Management Coordinator  
Agricultural Research Service  
Beltsville Agricultural Research Center  
Safety, Occupational Health, and  
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United States Department of Agriculture

Research, Education, and Economics  
Agricultural Research Service

August 7, 2020

## Beltsville Agricultural Research Center Response to the I495/I270 Proposed BARC Reforestation Mitigation Sites

Table 1. below provides a summary of BARC's review of the I495/I270 proposed reforestation mitigation sites. Of the 16 sites proposed two sites were approved outright (02 and 04), nine sites were denied outright (03, 05, 06, 08, 10, 11, 12, 13, and 14) because of BARC specific present and future requirements. Two sites are temporarily denied (01 and 09) because they are part of BARC CERCLA program. However, these sites might be available in time for consideration during the construction phase.

BARC has proposed an alternative BARC-07 site for consideration that may be able to be combined with the proposed site if I495/I270 determines there are funds available for the demolition of Building 050 (Figure 1). BARC-07 as proposed is currently unavailable due to timing and funding of demolition activities Figure 2. The combined area of the proposed and alternative site is over 4 AC. Buildings 17, 18 and 44 are also in the propose alternative and are planned for demolition. Building 18 is currently part of ongoing Environmental Assessment to allow its demolition.

Two sites are available immediately (02 and 04). Two sites are also available immediately (15 and 16) pending I495/I270 conducting EAs and demolition of structures within the footprint of those sites, with a total of 12.78 AC.

**Table 1. Summary of Proposed BARC Reforestation Mitigation Sites**

Site	Comments
BARC-01	Currently Denied-BARC 19 CERCLA Site not currently available (FY23)
BARC-02	Approved-However, coordination with RFS to establish and maintain mow areas will be required
BARC-03	Denied - BARC MS-4 regulatory requirements
BARC-04	Approved-However, coordination with RFS to establish and maintain mow areas will be required
BARC-05	Denied RFS requires this location for research activities
BARC-06	Denied - BARC may have future needs of this historic district site
BARC-07	The BARC 007 as proposed is currently unavailable in the time frame currently necessary for this project. BARC is currently completing the NEPA for demolition. There are no funds currently available for this demolition. However, once the EA is completed, and the building is available for demolition, BARC would entertain providing this parcel, in addition to the BARC-07 Alternative (A) for reforestation with the provision that the I495/I270 project demolish the building at their own cost (Figure 1) (1.34 AC)



## Beltsville Agricultural Research Center Response to the I495/I270 Proposed BARC Reforestation Mitigation Sites

Table 1. Continued

BARC-07-A	BARC proposes an alternate site configuration (Figure 1) (2.97 AC). There are three Buildings currently within this footprint that are planned for demolition. These are Building 17, 18 and 44. One of the Buildings is currently part of an EA for it proposed demolition (FY21).
BARC-08	Denied - BARC MS4 regulatory requirements
BARC-09	Currently Denied - BARC 22 CPLF (up to 30 Acres) CERCLA site - MDE must approve a waiver for to COMAR for a vegetative cap and ROD (FY21-FY22)
<b>Site</b>	<b>Comments</b>
BARC-10	Denied - BARC MS4 regulatory requirements
BARC-11	Denied - BARC RFS
BARC-12	Denied - BARC RFS
BARC-13	Denied - BARC RFS
BARC-14	Denied - BARC RFS
BARC-15	Approved - No BARC funds for structure demolition-structures to be removed by I495/I270
BARC-16	Approved - No BARC funds for structure demolition-structures to be removed by I495/I270

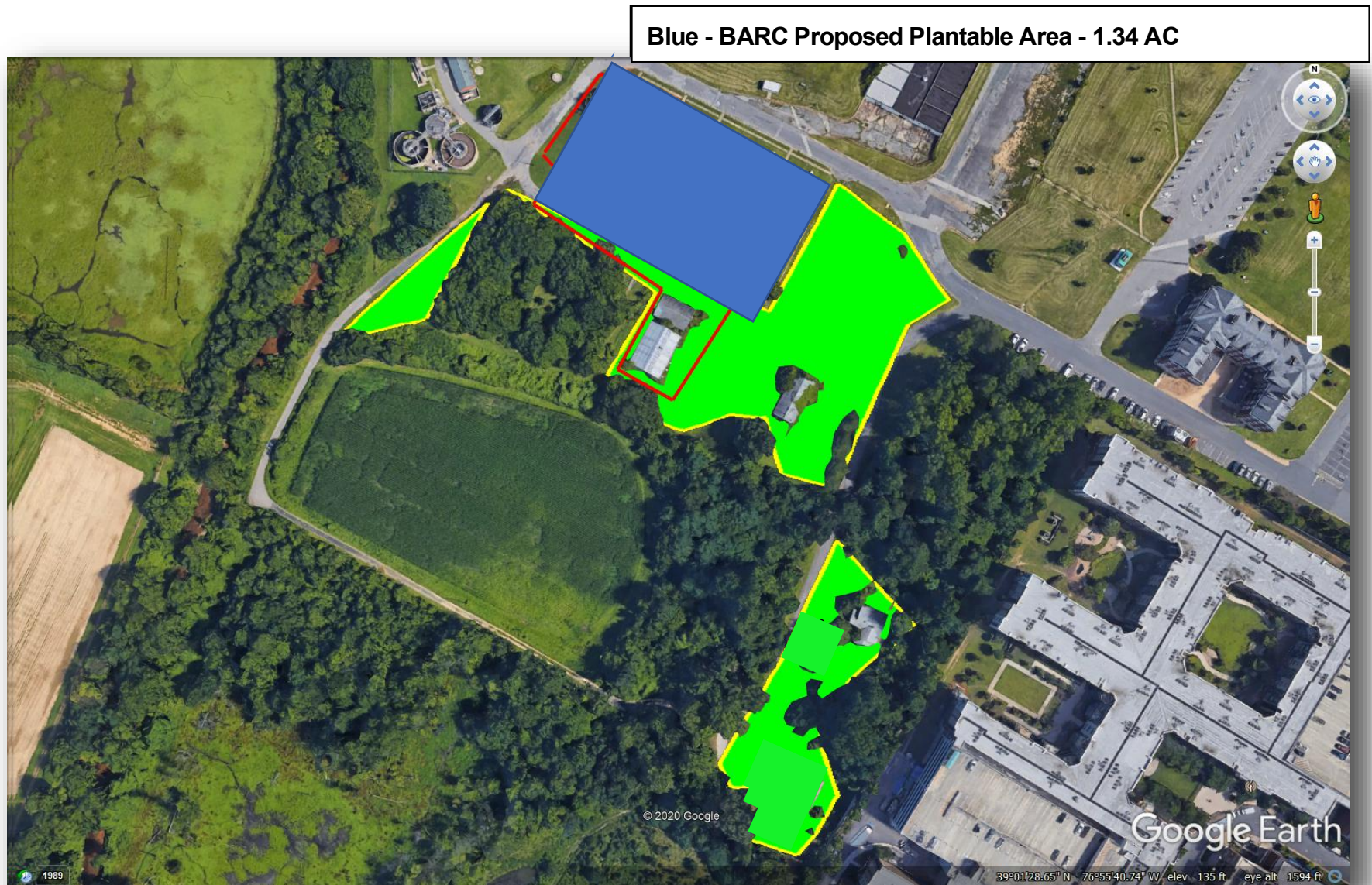


**Figure 1. BARC Proposed Alternative I495/I270 BARC-07 - A**





**Figure 2. BARC Proposed Alternative I495/I270 BARC-07 - B**





## Beltsville Agricultural Research Center Response to the I495/I270 Proposed BARC Reforestation Mitigation Sites

**Figure 3. Location of buildings in BARC proposed alternative: 17, 18, and 44. Building 53 center, top of figure has been removed.**







**I-495 & I-270 Managed Lanes Study  
USDA BARC Forest Mitigation Field Review  
December 12, 2019 @ 12:00 pm**

A field review meeting was conducted on December 12, 2019 at the USDA Beltsville Agricultural Research Center (BARC) property with BARC staff to discuss potential forest mitigation sites for the I-495 & I-270 Managed Lanes Study. A summary of the topics discussed at the meeting follows.

### **Introductions**

Participants met at the BARC headquarters at 10300 Baltimore Ave., Building 003, Beltsville, MD 20705 following the Mitigation Agency Field Review of potential stream and wetland mitigation sites on BARC property. Greg O'Hare summarized the Reforestation Law mitigation process and the credit needs for the project. Dana Jackson gave an overview of the potential planting sites on BARC property. The group drove to each of the potential planting sites to discuss mitigation opportunities.

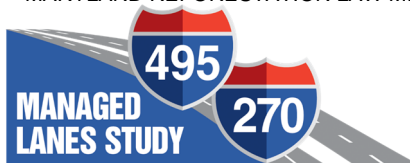
### **Mitigation Opportunities**

#### *North Farm*

Dana Jackson identified eight sites on the BARC North Farm (north of I-495, east of I-95 and west of Rt 1). The following is a brief description of each of the eight sites. See attached mapping for individual site locations.

- BARC\_01 – 4.12 acres – sloped area that is currently mowed south of Pine Loop, north of existing trees
- BARC\_02 – 2.71 acres – grassy area SE of Cherry Hill Rd and West Drive intersection
- BARC\_03 – 0.25 acres – old potato barns south of intersection of Yuma St. and West Drive that will be demolished by BARC
- BARC\_04 – 1.50 acres – grassy area to west of access drive to brownfield site south of intersection of Yuma St. and West Drive. Overhead utility lines bisect the site, limiting planting potential in some areas.
- BARC\_05 – 1.18 acres – grassy area to north of brownfield site, east of access road. Brownfield to south (low level radioactive waste disposal site) will be remediated by 2022 and remain open for use as a pesticide rinsate site in future.
  - Need to confirm that pesticide rinsate operations are compatible with adjacent tree planting site
- BARC\_06 – 2.61 acres – block of existing buildings east of 3<sup>rd</sup> Street between Range 2 Drive and Range 3 Drive. Buildings will be demolished by BARC, subgrade removed, topsoil replaced and site restored to original conditions. BARC will handle all NEPA requirements related to building demolition.
  - The site includes Range 2, Building 10 (PG:61-18) within the North Farm (PG:61-20). Eligible 6/1995, 11/1999.
  - BARC will handle MHT coordination associated with demolition.
- BARC\_07 – 1.45 acres – buildings south of South Drive and east of 3<sup>rd</sup> street. Buildings will be demolished by BARC, subgrade removed, topsoil replaced and site restored to original conditions. BARC will handle all NEPA requirements related to building demolition.
- BARC\_08 – 2.73 acres – grassy area northeast of intersection of Yuma Street and 3<sup>rd</sup> Street.





The site is under consideration for a solar panel installation project. If the site is not used for solar panels, it will be available for reforestation. Overhead utilities are located along the southern border of site, along Yuma Street.

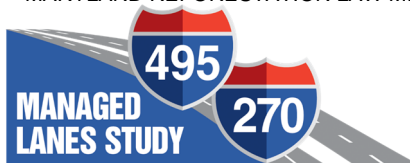
#### *Linkage Farm*

- BARC\_10 – 10.05 acres – grassy area to west of intersection of Edmonston Road and Parasitology Institute Road. Dana mentioned that he needs to confirm that this area is excess land. The site is not currently being farmed.
  - MDOT SHA cultural resources review indicated that a phase I archaeology survey would be required at this site.
  - If available, the site could potentially be planted with seedlings to avoid the need for a phase I survey (per MOU with MHT).

#### *Central Farm*

- BARC\_09 – 21.50 acres – old College Park landfill southeast of the intersection of Sunnyside Ave. and Edmonston Road. The landfill was used for municipal waste and construction debris. As part of the remediation, the bank adjacent to Beaverdam Creek would need to be armored. BARC has a plan for the site, but is looking for partnerships for the remediation effort. Capping the site with 1-2 feet of new soil would be needed. Overall remediation cost is estimated at \$6 million.
  - MDOT SHA does not have funding for remediation of this site for reforestation credit.
- BARC\_11 – 7.93 acres – grassy area adjacent to forest buffer of Beaverdam Creek, north of Parasitology Institute Road and west of Research road. BARC is abandoning buildings and the area may be available to plant. Dana will need to confirm which buildings will be abandoned and the limits of the planting site will need to be determined.
  - MDOT SHA cultural resources review indicated that a phase I archaeology survey would be required at this site.
  - If available, the site could potentially be planted with seedlings to avoid the need for a phase I survey (per MOU with MHT).
  - The site includes Building 1425 (Swine Products Barn – PG:67-67), which is eligible for the National Register of Historic Places (7/2018). Coordination with MHT will be required.
- BARC\_12 – 5.08 acres – former pasture to south of Parasitology Institute Road. Area is surrounded by existing forest on three sides.
- BARC\_13 – 23.37 acres – former pasture. Likely not available. Dana to confirm with BARC staff.
- BARC\_14 – 19.17 acres – mowed area northeast of the intersection of Powder Mill Road and Poultry Road.
- BARC\_15 – 5.73 acres – former pasture north of the intersection of Zoology Road and Center Road. BARC to demolish barns and sheds currently on the site.
- BARC\_16 – 7.05 acres - former pasture north of the intersection of Zoology Road and Center Road. BARC to demolish sheds currently on the site and remove fencing.





## USDA BARC Forest Mitigation Field Review

December 12, 2019

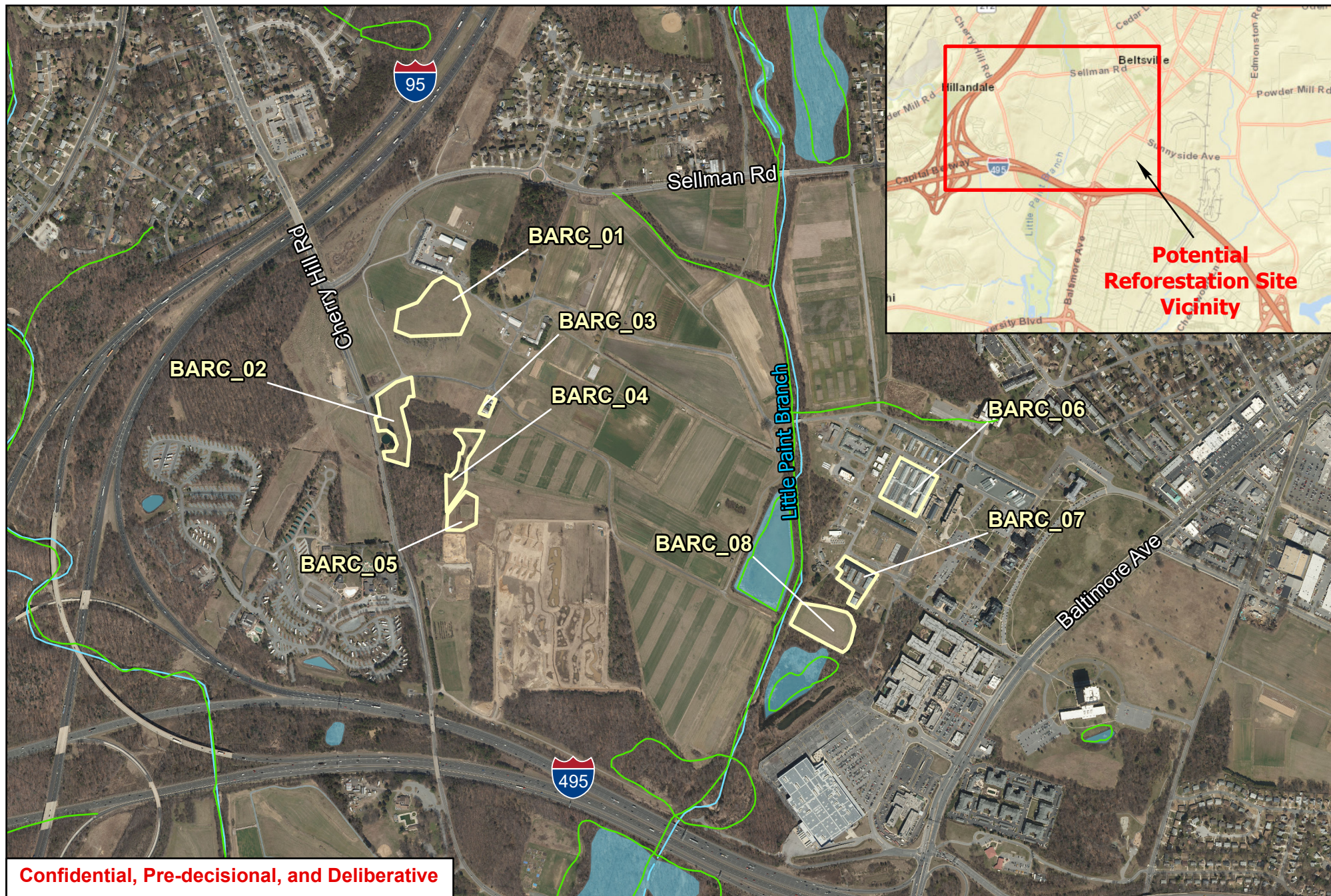
### Action Items:

- Dana will review proposed planting sites as shown on attached mapping and provide comments about any necessary site adjustments.

### Attendees:

Name	Agency	Email
Dana Jackson	BARC	<a href="mailto:dana.jackson@usda.gov">dana.jackson@usda.gov</a>
Greg O'Hare	MDOT SHA P3 / RK&K	<a href="mailto:gohare@rkk.com">gohare@rkk.com</a>
Kate Gordon	MDOT SHA P3 / RK&K	<a href="mailto:kgordon@rkk.com">kgordon@rkk.com</a>








<p>Forest Mitigation Site Search Potential BARC North Farm Reforestation Sites</p> <p><b>Key Map 1</b></p> <p>Prince George's County</p> <p><b>MANAGED LANES STUDY</b></p> <p>495 270</p>	<p>0 500 1,000 2,000</p> <p>1 inch = 1,000 feet</p>	<p><b>Beltsville Agriculture Research Center</b></p> <table border="0"> <tr> <td> Reforestation Site</td> <td> DNR - Waters</td> </tr> <tr> <td> DNR - Wetlands</td> <td> NWI - Wetlands and Waters</td> </tr> </table>	Reforestation Site	DNR - Waters	DNR - Wetlands	NWI - Wetlands and Waters
Reforestation Site	DNR - Waters					
DNR - Wetlands	NWI - Wetlands and Waters					

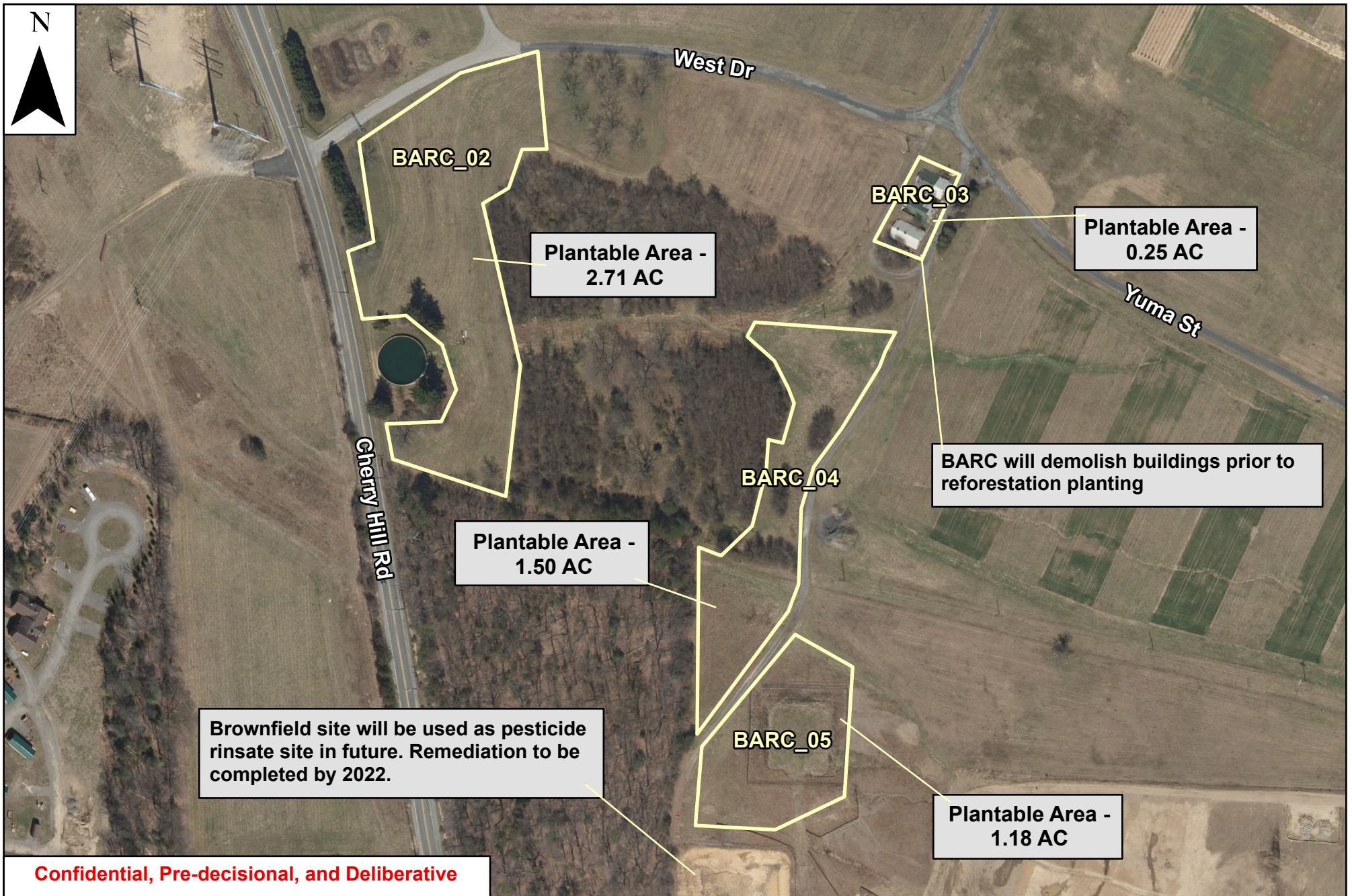




**Confidential, Pre-decisional, and Deliberative**

 <p>Forest Mitigation Site Search Potential BARC North Farm Reforestation Sites</p> <p><b>BARC_01</b> Prince George's County</p>	<p>0 75 150 300</p>  <p>1 inch = 150 feet</p>	<p><b>Potential Reforestation Acres</b></p> <p>4.12</p> <p> Reforestation Site</p>
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<p>Forest Mitigation Site Search Potential BARC North Farm Reforestation Sites <b>BARC_02, BARC_03, BARC_04, BARC_05</b> Prince George's County</p>	<p>0 100 200 400</p> <p>1 inch = 200 feet</p>	<p><b>Potential Reforestation Acres</b></p> <p>5.64</p> <p> Reforestation Site</p>


















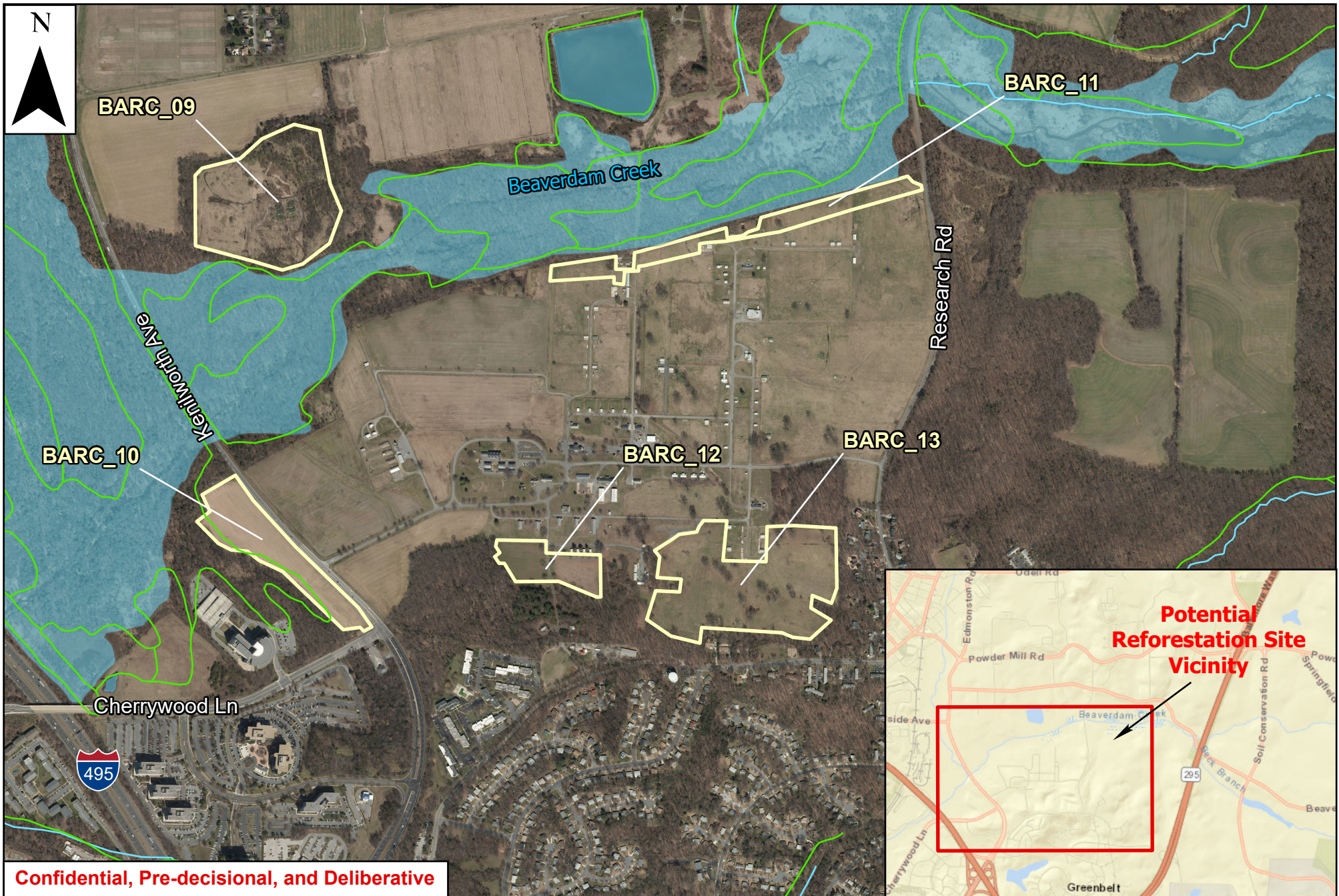
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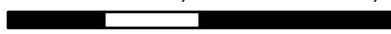


 <p>Forest Mitigation Site Search Potential BARC North Farm Reforestation Sites</p> <p><b>BARC_07, BARC_08</b></p> <p>Prince George's County</p>	<p>0 75 150 300</p> <p>1 inch = 150 feet</p>	<p><b>Potential Reforestation Acres</b></p> <p>4.18</p> <table border="0"> <tr> <td> Reforestation Site</td> <td> DNR - Wetlands</td> </tr> <tr> <td> DNR - Waters</td> <td> NWI - Wetlands and Waters</td> </tr> </table>	 Reforestation Site	 DNR - Wetlands	 DNR - Waters	 NWI - Wetlands and Waters
		 Reforestation Site	 DNR - Wetlands			
 DNR - Waters	 NWI - Wetlands and Waters					
<p>DRAFT, DELIBERATIVE, PRE-DECISIONAL</p>						

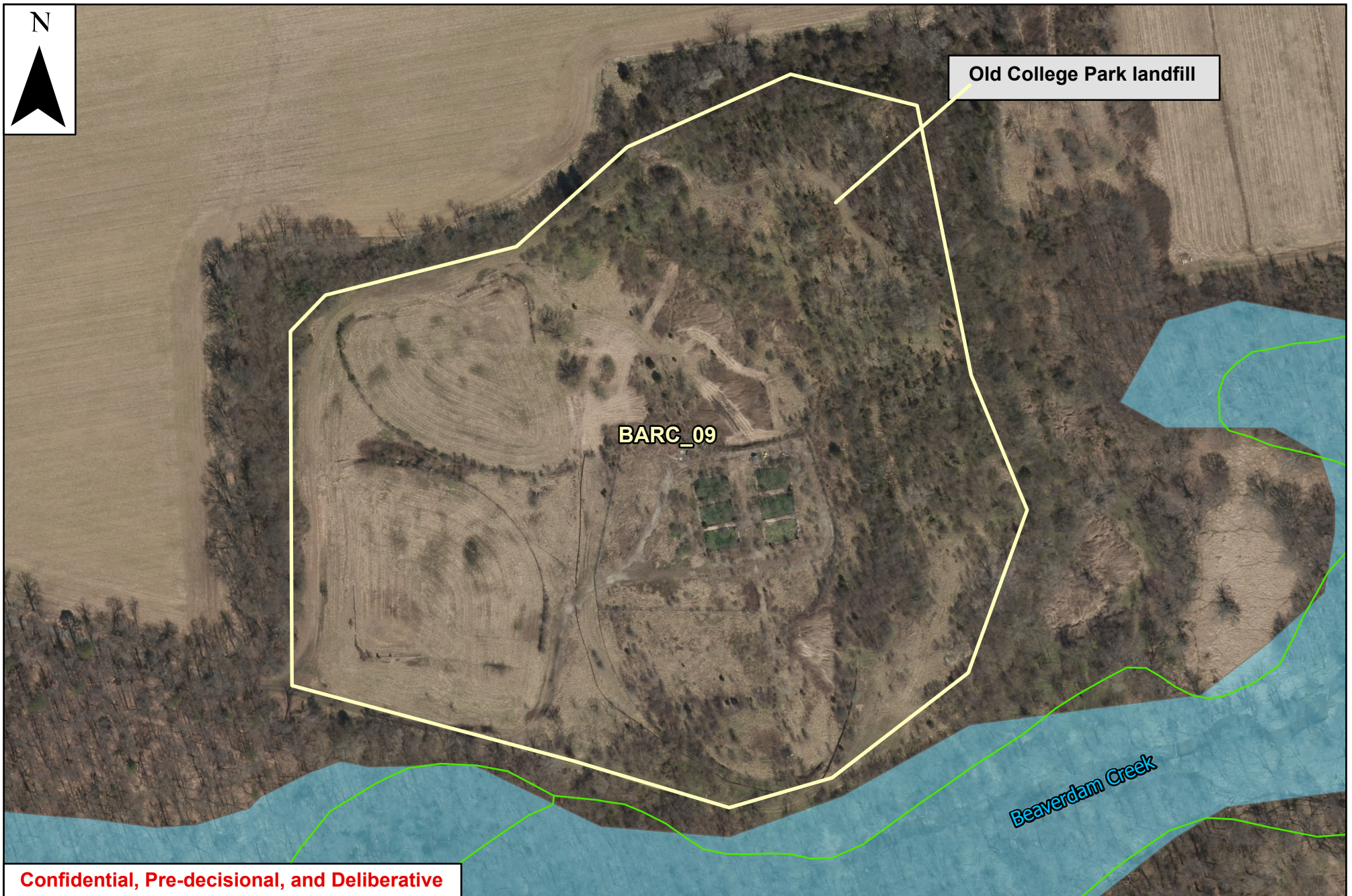





**Confidential, Pre-decisional, and Deliberative**

 <p>Forest Mitigation Site Search Potential BARC Linkage and Central Farm Reforestation Sites <b>Key Map 2</b> Prince George's County</p>	<p>0 500 1,000 2,000</p>  <p>1 inch = 1,000 feet</p>	<p><b>Beltsville Agriculture Research Center</b></p> <table border="0"> <tr> <td> Reforestation Site</td> <td> DNR - Waters</td> </tr> <tr> <td> DNR - Wetlands</td> <td> NWI - Wetlands and Waters</td> </tr> </table>	Reforestation Site	DNR - Waters	DNR - Wetlands	NWI - Wetlands and Waters
Reforestation Site	DNR - Waters					
DNR - Wetlands	NWI - Wetlands and Waters					

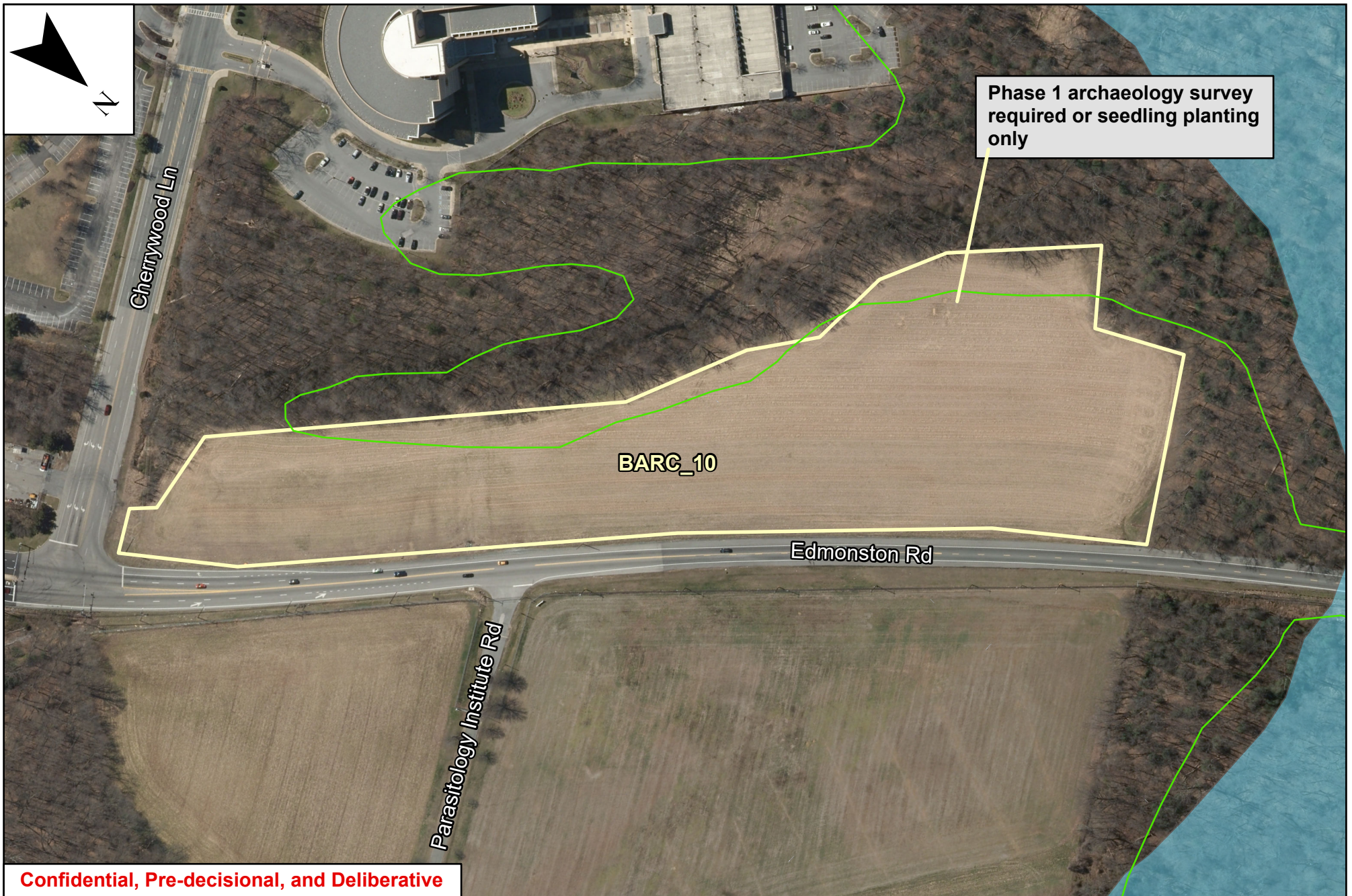











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<div><p><b>MANAGED LANES STUDY</b></p></div> <div><p>Forest Mitigation Site Search</p><p>Potential BARC Central Farm Reforestation Sites</p><p><b>BARC_09</b></p><p>Prince George's County</p></div>	<div><div><div>0100200400</div><div><div></div></div></div><div>1 inch = 200 feet</div></div>	<p><b><u>Potential Reforestation Acres</u></b></p> <p>21.50</p>
		<div><div><div><div><div></div></div><div>Reforestation Site</div></div><div><div></div><div>DNR - Wetlands</div></div></div><div><div><div></div></div><div>DNR - Waters</div></div><div><div></div><div>NWI - Wetlands and Waters</div></div></div>

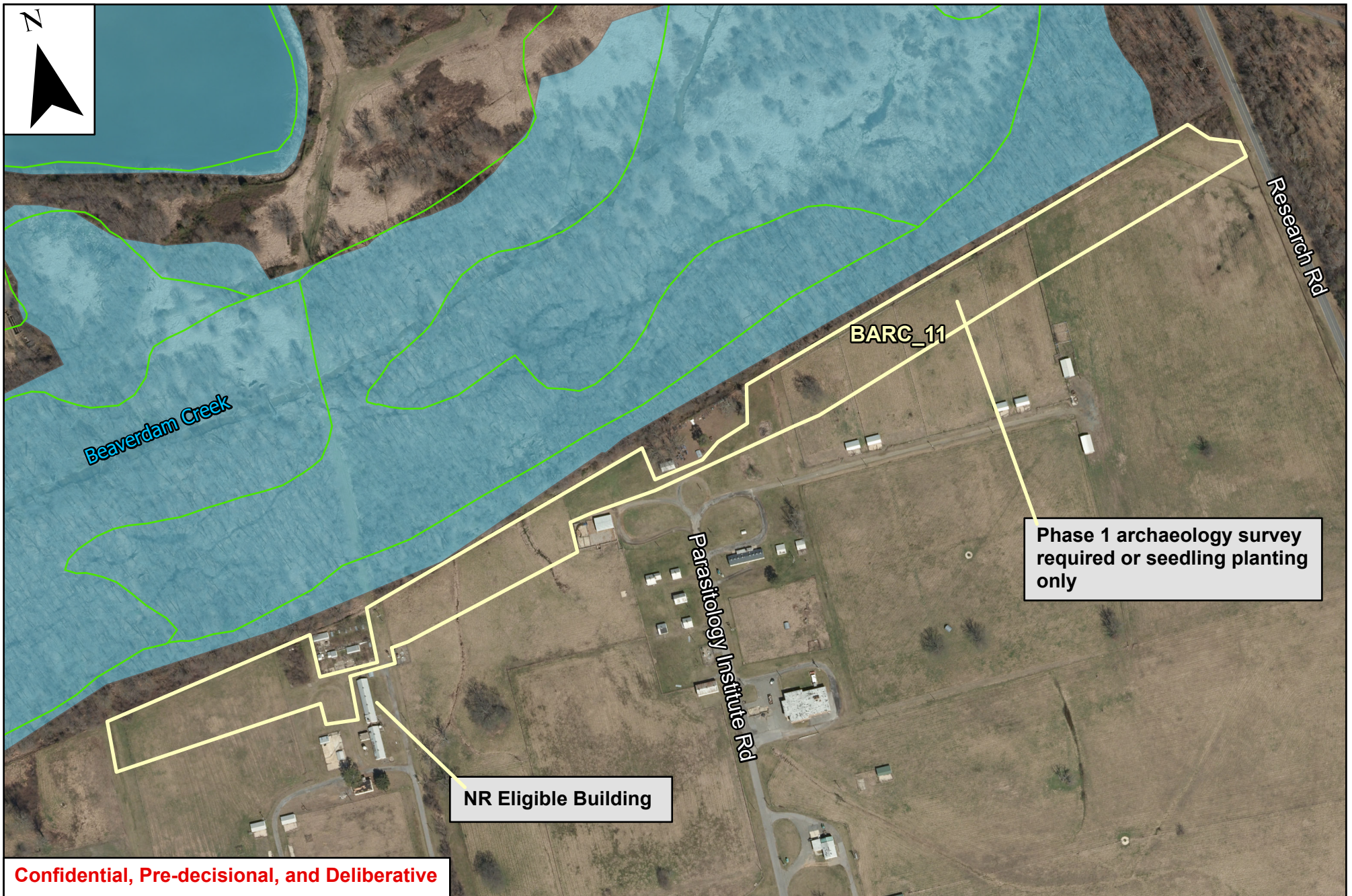




**Confidential, Pre-decisional, and Deliberative**

 <p>Forest Mitigation Site Search Potential BARC Linkage Farm Reforestation Sites</p> <p><b>BARC_10</b></p> <p>Prince George's County</p>	<p>0 100 200 400</p>  <p>1 inch = 200 feet</p>	<p><b>Potential Reforestation Acres</b></p> <p>10.05</p> <table border="0"> <tr> <td> Reforestation Site</td> <td> DNR - Wetlands</td> </tr> <tr> <td> DNR - Waters</td> <td> NWI - Wetlands and Waters</td> </tr> </table>	 Reforestation Site	 DNR - Wetlands	 DNR - Waters	 NWI - Wetlands and Waters
 Reforestation Site	 DNR - Wetlands					
 DNR - Waters	 NWI - Wetlands and Waters					





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**Confidential, Pre-decisional, and Deliberative**

<div data-bbox="52 1442 340 1575"> </div> <div data-bbox="279 1406 989 1563"> <p>Forest Mitigation Site Search Potential BARC Central Farm Reforestation Sites</p> <p><b>BARC_12</b> Prince George's County</p> </div>	<div data-bbox="1024 1422 1453 1536"> <p>0 75 150 300</p> <p>1 inch = 150 feet</p> </div>	<div data-bbox="1528 1393 1986 1547"> <p><b>Potential Reforestation Acres</b></p> <p>5.08</p> <div data-bbox="1612 1507 1898 1547">  Reforestation Site                 </div> </div>
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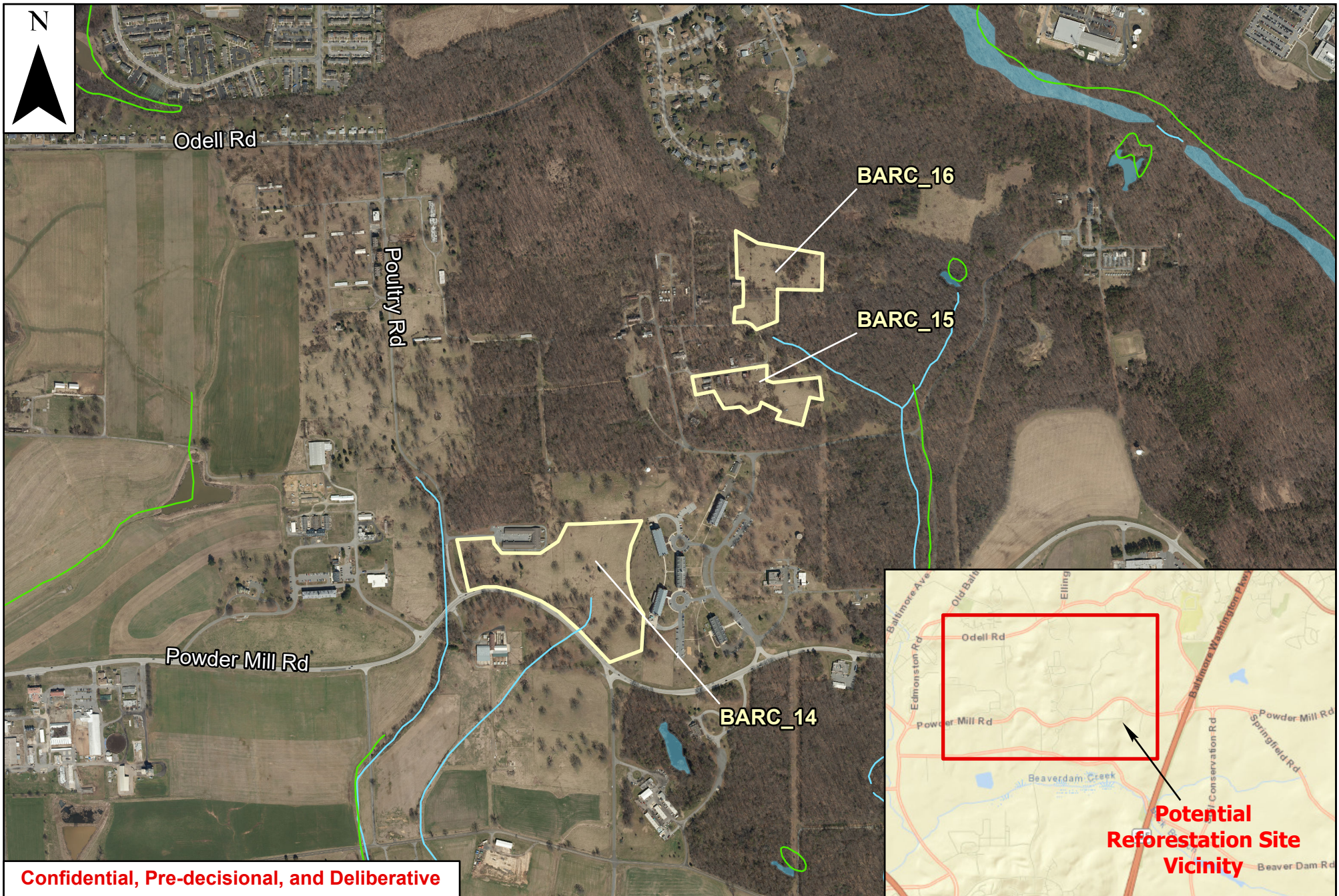




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<div data-bbox="52 1442 340 1578"> <p><b>MANAGED LANES STUDY</b></p> </div> <div data-bbox="283 1401 993 1563"> <p>Forest Mitigation Site Search Potential BARC Central Farm Reforestation Sites</p> <p><b>BARC_13</b></p> <p>Prince George's County</p> </div>	<div data-bbox="1029 1425 1453 1539"> <p>0 100 200 400</p> <p>1 inch = 200 feet</p> </div>	<div data-bbox="1533 1396 1984 1542"> <p><b>Potential Reforestation Acres</b></p> <p>23.37</p> <div data-bbox="1617 1502 1900 1542"> <p>Reforestation Site</p> </div> </div>
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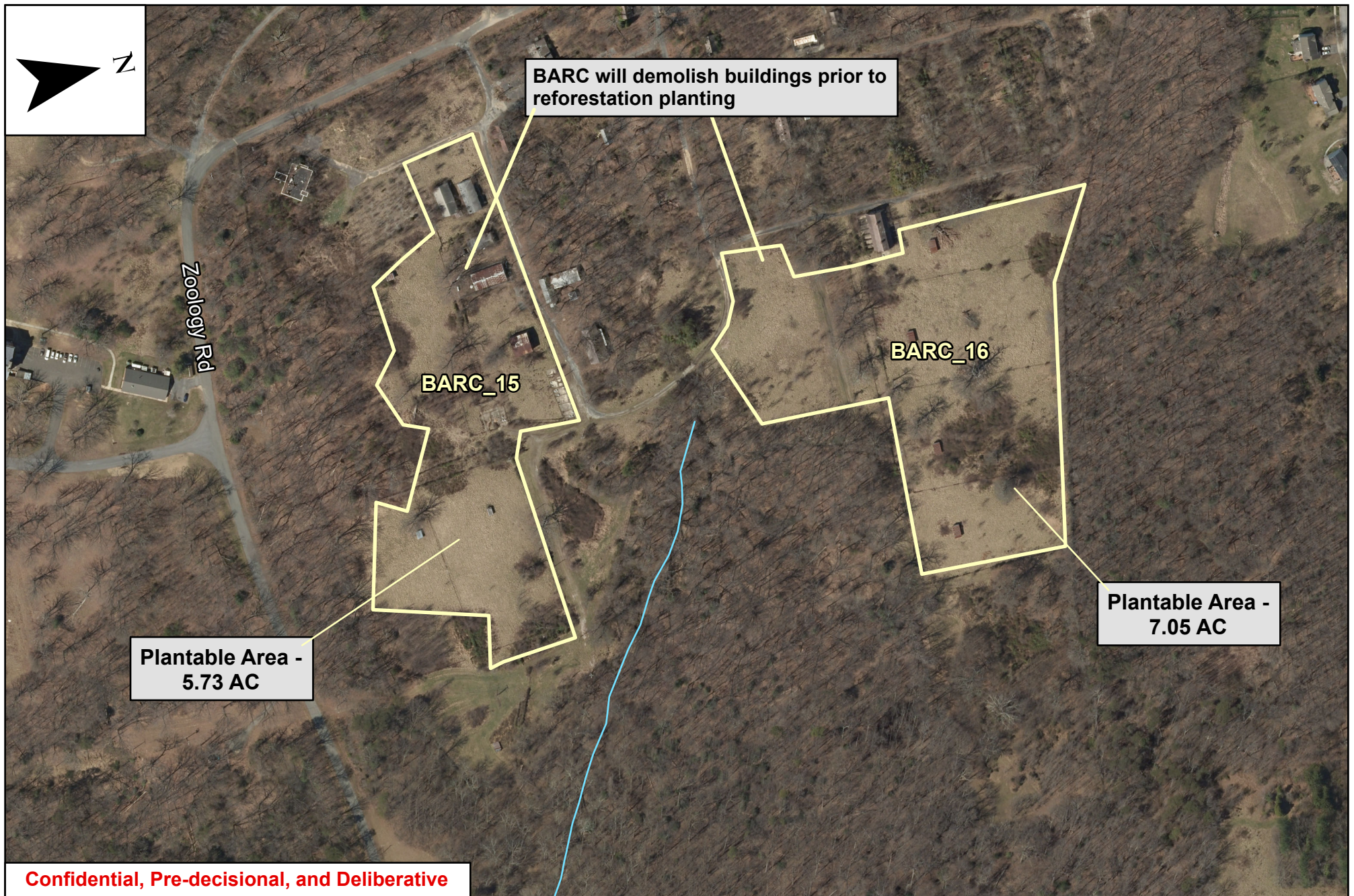








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<div data-bbox="52 1442 336 1576"> </div> <div data-bbox="287 1395 995 1471"> <p>Forest Mitigation Site Search Potential BARC Central Farm Reforestation Sites</p> </div> <div data-bbox="567 1477 716 1516"> <p><b>BARC_14</b></p> </div> <div data-bbox="491 1526 789 1563"> <p>Prince George's County</p> </div>	<div data-bbox="1024 1424 1451 1479"> <p>0 150 300 600</p> </div> <div data-bbox="1131 1502 1348 1536"> <p>1 inch = 300 feet</p> </div>	<div data-bbox="1528 1395 2003 1432"> <p><b>Potential Reforestation Acres</b></p> </div> <div data-bbox="1705 1437 1816 1474"> <p>19.17</p> </div> <div data-bbox="1608 1485 1911 1568"> <p> Reforestation Site  DNR - Waters</p> </div>
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 <p>Forest Mitigation Site Search Potential BARC Central Farm Reforestation Sites <b>BARC_15, BARC_16</b> Prince George's County</p>	<p>0 125 250 500</p>  <p>1 inch = 250 feet</p>	<p><b>Potential Reforestation Acres</b></p> <p>12.78</p> <p> Reforestation Site</p> <p> DNR - Waters</p>
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## Anita Alexander

---

**From:** Kate Gordon  
**Sent:** Friday, August 21, 2020 2:33 PM  
**To:** 'LaRoche, Doreen - OO, Washington, DC'; Anita Alexander  
**Cc:** Greg OHare; 'bob@blackwaterenvironmentalgroup.com'; Stacy Talmadge; Lam, Bahn - OO, Washington, DC; Delgado, Fidel - OO, Washington, DC; Broad, Catherine - OPFM, Washington, DC  
**Subject:** RE: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- USDA Response 8/18/20

Good Afternoon Doreen,

Thank you for providing the timeline for GWCC renovation projects. We understand that a commitment cannot be made until the campus projects are further along. We will note the planting areas identified on the campus as potential sites for the P3 developer to reevaluate with USDA GWCC in mid-late 2021.

Please let us know if you have any questions.

Thanks,  
 Kate

---

**From:** LaRoche, Doreen - OO, Washington, DC <Doreen.LaRoche@USDA.GOV>  
**Sent:** Tuesday, August 18, 2020 10:25 AM  
**To:** Anita Alexander <aalexander@rkk.com>  
**Cc:** Kate Gordon <kgordon@rkk.com>; Greg OHare <gohare@rkk.com>; 'bob@blackwaterenvironmentalgroup.com' <bob@blackwaterenvironmentalgroup.com>; Stacy Talmadge <stacy@blackwaterenvironmentalgroup.com>; Lam, Bahn - OO, Washington, DC <Bahn.Lam@USDA.GOV>; Delgado, Fidel - OO, Washington, DC <Fidel.Delgado@usda.gov>; Broad, Catherine - OPFM, Washington, DC <catherine.broad@usda.gov>; LaRoche, Doreen - OO, Washington, DC <Doreen.LaRoche@USDA.GOV>  
**Subject:** RE: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- USDA Response 8/18/20

Dear Ms. Alexander,

As you're aware, USDA and MDOT have participated in meetings regarding the referenced project since mid-May 2020. USDA appreciates all of the time and effort and information provided through these meetings, as well as through email and discussion with the Maryland Department of Transportation team. Since we are now moving through conceptual phase pre-design decisions for the GWCC exterior renovation, we must, at this time, defer in making a commitment as to any specific areas for the reforestation. We will have better ideas once we complete the final design and receive the National Capital Planning Commission (NCPC) and Maryland National Capital Park and Planning Commission approvals. At present, we aim to reach this milestone in mid-to late-2021.

Our George Washington Carver Center campus project time-line is as follows:

- Project Award for Interior Renovation - August 18, 2020
- Interior Renovation Completion – By December 2022
- Exterior Renovation Conceptual Planning Phase – By December 2020
- Exterior Master Plan – By December 2021
- Exterior Construction – By December 2022



Please let our team know your thoughts on this sequence for the reforestation area decision.

Thank you.

Sincerely,

*Doreen Christian La Roche*, Civil Engineer, PM/CORIII

Engineering Branch, Facilities Management Division  
Office of Operations, USDA  
Desk: 202-720-2411  
Cell: 202-497-0068  
Fax: 202-720-5019  
Email: [doreen.laroche@usda.gov](mailto:doreen.laroche@usda.gov)

---

**From:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Sent:** Tuesday, August 11, 2020 12:49 PM  
**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
**Cc:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; 'bob@blackwaterenvironmentalgroup.com' <[bob@blackwaterenvironmentalgroup.com](mailto:bob@blackwaterenvironmentalgroup.com)>; Stacy Talmadge <[stacy@blackwaterenvironmentalgroup.com](mailto:stacy@blackwaterenvironmentalgroup.com)>; Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Delgado, Fidel - OO, Washington, DC <[Fidel.Delgado@usda.gov](mailto:Fidel.Delgado@usda.gov)>; LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Subject:** RE: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- Summary of 5/14 Meeting & 6/12 Field Investigation

Thanks much

*Doreen Christian La Roche*, Civil Engineer, PM/CORIII

Engineering Branch, Facilities Management Division  
Office of Operations, USDA  
Desk: 202-720-2411  
Cell: 202-497-0068  
Fax: 202-720-5019  
Email: [doreen.laroche@usda.gov](mailto:doreen.laroche@usda.gov)

---

**From:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
**Sent:** Tuesday, August 11, 2020 9:27 AM  
**To:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Cc:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; 'bob@blackwaterenvironmentalgroup.com' <[bob@blackwaterenvironmentalgroup.com](mailto:bob@blackwaterenvironmentalgroup.com)>; Stacy Talmadge <[stacy@blackwaterenvironmentalgroup.com](mailto:stacy@blackwaterenvironmentalgroup.com)>; Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Delgado, Fidel - OO, Washington, DC <[Fidel.Delgado@usda.gov](mailto:Fidel.Delgado@usda.gov)>  
**Subject:** RE: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- Summary of 5/14 Meeting & 6/12 Field Investigation

Good Morning Doreen,

Thank you for reviewing the USDA GWCC map and meeting minutes. Responses to your 8/3 Pre-Analysis Comments are provided below in italics:



## Pre-analysis

- Could we have examples ( Pictorial/Maps/Documentation ) of projects of this type.
  - *Please see attached photos for examples of reforestation site plantings completed by MDOT SHA.*
- What would tree maintenance be during the initial growing periods and who is responsible?
  - *The P3 Developer would be responsible for maintenance during the initial growing periods. Any maintenance requirements during the initial growing periods could be negotiated during the agreement development once the P3 Developer is on board, but would likely consist of watering, control of vegetation around individual tree pits during each growing season and annual mowing of the tree planting site.*
- Who would also be responsible for any damage and replanting of grassed areas/damaged?
  - *The P3 Developer*
- Denote area 7A on the map.
  - *Area USDA\_7A is labeled on the revised map. See attached.*
- Both 5A areas and 5B not feasible.
  - *We have updated the meeting minutes and map to indicate that Areas USDA\_5A and USDA\_5B are not available for planting. See revised meeting minutes, attached.*

Please let me know if you have any questions.

Thanks!

Anita Alexander

Consultant for Maryland Department of Transportation, State Highway Administration

C: (609) 751-4509

---

**ANITA G. ALEXANDER**

Associate Environmental Scientist



700 East Pratt Street, Suite 500  
Baltimore, MD 21202

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[www.rkk.com](http://www.rkk.com)

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---

**From:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Sent:** Friday, August 7, 2020 2:53 PM

**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>

**Cc:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Delgado, Fidel - OO, Washington, DC <[Fidel.Delgado@usda.gov](mailto:Fidel.Delgado@usda.gov)>; LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Subject:** RE: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- Summary of 5/14 Meeting & 6/12 Field Investigation

**Importance:** High

Hi Anita while we are awaiting the items below. Is there a drop dead date/time frame that you have to have the USDA response.



*Doreen Christian La Roche*, Civil Engineer, PM/CORIII

Engineering Branch, Facilities Management Division  
Office of Operations, USDA  
Desk: 202-720-2411  
Cell: 202-497-0068  
Fax: 202-720-5019  
Email: [doreen.laroche@usda.gov](mailto:doreen.laroche@usda.gov)

---

**From:** LaRoche, Doreen - OO, Washington, DC  
**Sent:** Monday, August 3, 2020 3:57 PM  
**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
**Cc:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Delgado, Fidel - OO, Washington, DC <[Fidel.Delgado@usda.gov](mailto:Fidel.Delgado@usda.gov)>; LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Subject:** RE: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- Summary of 5/14 Meeting & 6/12 Field Investigation

Ok Thanks

---

**From:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
**Sent:** Monday, August 3, 2020 3:16 PM  
**To:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Cc:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Delgado, Fidel - OO, Washington, DC <[Fidel.Delgado@usda.gov](mailto:Fidel.Delgado@usda.gov)>  
**Subject:** RE: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- Summary of 5/14 Meeting & 6/12 Field Investigation

Thank you Doreen! I will consult my team and provide the requested information with revised minutes and mapping as soon as possible.

Thanks!  
Anita Alexander  
Consultant for Maryland Department of Transportation, State Highway Administration  
C: (609) 751-4509

---

**ANITA G. ALEXANDER**  
Associate Environmental Scientist



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**From:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Sent:** Monday, August 3, 2020 3:04 PM  
**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
**Cc:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Delgado, Fidel - OO, Washington, DC <[Fidel.Delgado@usda.gov](mailto:Fidel.Delgado@usda.gov)>; LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Subject:** RE: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- Summary of 5/14 Meeting & 6/12 Field Investigation  
**Importance:** High

Good afternoon Anita sorry for not responding last week as promised. Before a response is given we have to first present the proposed project to our Upper Management. which will give us the USDA response. To assist us with our presentation, we are in need of the following information :

#### Pre-analysis

- Could we have examples ( Pictorial/Maps/Documentation ) of projects of this type.
- What would tree maintenance be during the initial growing periods and who is responsible?
- Who would also be responsible for any damage and replanting of grassed areas/damaged?
- Denote area 7A on the map.
- Both 5A areas and 5B not feasible.

I will keep you abreast of the progress on this. Thanks in advance for your patience and understanding.

Doreen Christian LaRoche, Civil Engineer Engineering Branch  
Office of Operations, Facilities Management Division USDA  
Office – 202-720-2411  
Cell – 202-497-0068

---

**From:** LaRoche, Doreen - OO, Washington, DC  
**Sent:** Tuesday, July 28, 2020 10:22 AM  
**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
**Cc:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>; Delgado, Fidel - OO, Washington, DC <[Fidel.Delgado@usda.gov](mailto:Fidel.Delgado@usda.gov)>  
**Subject:** RE: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- Summary of 5/14 Meeting & 6/12 Field Investigation  
**Importance:** High

Good morning Anita yes we are reviewing and I will be compiling our comments once I have received them all hope to before the week is out. Thanks for checking.

---

**From:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
**Sent:** Tuesday, July 28, 2020 10:10 AM  
**To:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Cc:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>  
**Subject:** RE: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- Summary of 5/14 Meeting & 6/12 Field Investigation

Good Morning Doreen,



I just wanted to follow up and see if your team has reviewed the GWCC meeting minutes and map. Please let us know if you have any comments/questions/edits on the proposed planting areas. We would appreciate feedback as soon as possible.

Thank you!

Anita Alexander

Consultant for Maryland Department of Transportation, State Highway Administration

C: (609) 273-7735

---

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---

**From:** Anita Alexander

**Sent:** Tuesday, July 14, 2020 12:32 PM

**To:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Cc:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>

**Subject:** RE: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- Summary of 5/14 Meeting & 6/12 Field Investigation

Sounds good, thank you!

Anita

---

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**From:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Sent:** Tuesday, July 14, 2020 12:20 PM

**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>



**Cc:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Subject:** Re: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- Summary of 5/14 Meeting & 6/12 Field Investigation

Yes I must have will review and let you know

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**From:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>

**Sent:** Tuesday, July 14, 2020 11:38:03 AM

**To:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Subject:** RE: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- Summary of 5/14 Meeting & 6/12 Field Investigation

That's great! And yes, I sent an email with the minutes and map in the afternoon on Thursday July 2<sup>nd</sup> (see below). It was right before the holiday weekend so I understand it may have been missed in your inbox.

Thanks!

Anita

---

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**From:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Sent:** Tuesday, July 14, 2020 11:02 AM

**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>

**Cc:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Subject:** RE: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- Summary of 5/14 Meeting & 6/12 Field Investigation

Yes doing well had you already sent this information?

---

**From:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>

**Sent:** Tuesday, July 14, 2020 10:57 AM

**To:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Hyde, Kristen <[khhyde@cemscience.com](mailto:khhyde@cemscience.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>

**Subject:** RE: I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- Summary of 5/14 Meeting & 6/12 Field Investigation

Good Morning Doreen,



I hope you are doing well. I just wanted to follow up and see if your team has reviewed the attached meeting minutes and map. Please let us know if you have any comments/questions/edits on the proposed planting areas.

Thank you!

Anita Alexander

Consultant for Maryland Department of Transportation, State Highway Administration

C: (609) 273-7735

---

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**From:** Anita Alexander

**Sent:** Thursday, July 2, 2020 4:39 PM

**To:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Hyde, Kristen <[khhyde@cemscience.com](mailto:khhyde@cemscience.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>

**Subject:** I-495 & I-270 MLS Reforestation Opportunities on USDA GWCC Campus- Summary of 5/14 Meeting & 6/12 Field Investigation

Good Afternoon Doreen,

A summary of our meeting on 5/14 to discuss potential reforestation sites on USDA GWCC property is attached for your review along with mapping of the sites that were field reviewed on 6/12. Please let me know if you have any edits.

Thank you and have a great weekend!

Anita

---

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Associate Environmental Scientist



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**From:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Sent:** Tuesday, June 30, 2020 7:44 AM  
**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kane, Michael - OSSP, Washington, DC <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>; Brooks, Timothy (CTR) - OO, Washington, DC <[timothyw.brooks@usda.gov](mailto:timothyw.brooks@usda.gov)>  
**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Davenport, Peter (CTR) - OO, Washington, DC <[Peter.Davenport@USDA.GOV](mailto:Peter.Davenport@USDA.GOV)>; Tucker, Carlton - OSSP, Washington, DC <[carlton.tucker@usda.gov](mailto:carlton.tucker@usda.gov)>; LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Subject:** RE: Access this Friday 6-12-20 at GWCC - MLS Reforestation

Good morning to you too. That's fine I was just checking. Thanks stay safe and blessed.

**From:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
**Sent:** Tuesday, June 30, 2020 7:37 AM  
**To:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>; Kane, Michael - OSSP, Washington, DC <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>; Brooks, Timothy (CTR) - OO, Washington, DC <[timothyw.brooks@usda.gov](mailto:timothyw.brooks@usda.gov)>  
**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Davenport, Peter (CTR) - OO, Washington, DC <[Peter.Davenport@USDA.GOV](mailto:Peter.Davenport@USDA.GOV)>; Tucker, Carlton - OSSP, Washington, DC <[carlton.tucker@usda.gov](mailto:carlton.tucker@usda.gov)>  
**Subject:** RE: Access this Friday 6-12-20 at GWCC - MLS Reforestation

Good Morning Doreen,

I apologize for the late reply, I was out in the field last week.

The meeting minutes and map that were updated based on the field investigation still need to be reviewed by the P3 team. I will be sure to send them to you as soon as possible after the review is complete.

Thank you for your patience!

Anita Alexander

Consultant for Maryland Department of Transportation, State Highway Administration

C: (609) 273-7735

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 Associate Environmental Scientist



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**From:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Sent:** Wednesday, June 24, 2020 2:19 PM  
**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kane, Michael - OSSP, Washington, DC <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>; Brooks, Timothy (CTR) - OO, Washington, DC <[timothyw.brooks@usda.gov](mailto:timothyw.brooks@usda.gov)>



**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Davenport, Peter (CTR) - OO, Washington, DC <[Peter.Davenport@USDA.GOV](mailto:Peter.Davenport@USDA.GOV)>; Tucker, Carlton - OSSP, Washington, DC <[carlton.tucker@usda.gov](mailto:carlton.tucker@usda.gov)>; LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Subject:** RE: Access this Friday 6-12-20 at GWCC - MLS Reforestation

Good afternoon Ms. Alexander we are still looking for the items highlighted below as promised. Thanks in advance.

---

**From:** LaRoche, Doreen - OO, Washington, DC

**Sent:** Tuesday, June 16, 2020 7:09 AM

**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kane, Michael - OSSP, Washington, DC <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>; Brooks, Timothy (CTR) - OO, Washington, DC <[timothyw.brooks@usda.gov](mailto:timothyw.brooks@usda.gov)>

**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Davenport, Peter (CTR) - OO, Washington, DC <[Peter.Davenport@USDA.GOV](mailto:Peter.Davenport@USDA.GOV)>; Tucker, Carlton - OSSP, Washington, DC <[carlton.tucker@usda.gov](mailto:carlton.tucker@usda.gov)>; LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Subject:** RE: Access this Friday 6-12-20 at GWCC - MLS Reforestation

Good morning glad to know all went well. We are looking forward to the meeting minutes and the field investigation information. Have a blessed day.

---

**From:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>

**Sent:** Monday, June 15, 2020 4:51 PM

**To:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>; Kane, Michael - OSSP, Washington, DC <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>; Brooks, Timothy (CTR) - OO, Washington, DC <[timothyw.brooks@usda.gov](mailto:timothyw.brooks@usda.gov)>

**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Davenport, Peter (CTR) - OO, Washington, DC <[Peter.Davenport@USDA.GOV](mailto:Peter.Davenport@USDA.GOV)>; Tucker, Carlton - OSSP, Washington, DC <[carlton.tucker@usda.gov](mailto:carlton.tucker@usda.gov)>

**Subject:** RE: Access this Friday 6-12-20 at GWCC - MLS Reforestation

Hi Doreen,

Thanks for following up. The field review went well.

We will send your team meeting minutes and maps that reflect the results of the field investigation soon.

Thanks!

Anita Alexander

Consultant for Maryland Department of Transportation, State Highway Administration

C: (609) 273-7735

---

**ANITA G. ALEXANDER**

Associate Environmental Scientist



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**From:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Sent:** Monday, June 15, 2020 4:16 PM

**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kane, Michael - OSSP, Washington, DC <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; [wicker.seth@cemscience.com](mailto:wicker.seth@cemscience.com); Brooks, Timothy (CTR) - OO, Washington, DC <[timothyw.brooks@usda.gov](mailto:timothyw.brooks@usda.gov)>

**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; [wicker.seth@cemscience.com](mailto:wicker.seth@cemscience.com); Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Davenport, Peter (CTR) - OO, Washington, DC <[Peter.Davenport@USDA.GOV](mailto:Peter.Davenport@USDA.GOV)>; Tucker, Carlton - OSSP, Washington, DC <[carlton.tucker@usda.gov](mailto:carlton.tucker@usda.gov)>; LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Subject:** RE: Access this Friday 6-12-20 at GWCC - MLS Reforestation

Good afternoon Ms. Alexander just checking to see how was the field review?

**From:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>

**Sent:** Thursday, June 11, 2020 11:56 AM

**To:** Kane, Michael - OSSP, Washington, DC <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>; LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; [wicker.seth@cemscience.com](mailto:wicker.seth@cemscience.com); Brooks, Timothy (CTR) - OO, Washington, DC <[timothyw.brooks@usda.gov](mailto:timothyw.brooks@usda.gov)>

**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; [wicker.seth@cemscience.com](mailto:wicker.seth@cemscience.com); Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Davenport, Peter (CTR) - OO, Washington, DC <[Peter.Davenport@USDA.GOV](mailto:Peter.Davenport@USDA.GOV)>; Tucker, Carlton - OSSP, Washington, DC <[carlton.tucker@usda.gov](mailto:carlton.tucker@usda.gov)>

**Subject:** RE: Access this Friday 6-12-20 at GWCC - MLS Reforestation

Thank you for the information! Mike and Seth will be on site at 10.

Thanks!

Anita Alexander

Consultant for Maryland Department of Transportation, State Highway Administration

C: (609) 273-7735

## ANITA G. ALEXANDER

Associate Environmental Scientist



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**From:** Kane, Michael - OSSP, Washington, DC <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>

**Sent:** Thursday, June 11, 2020 11:08 AM



**To:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; [wicker.seth@cemscience.com](mailto:wicker.seth@cemscience.com); Brooks, Timothy (CTR) - OO, Washington, DC <[timothyw.brooks@usda.gov](mailto:timothyw.brooks@usda.gov)>  
**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; [wicker.seth@cemscience.com](mailto:wicker.seth@cemscience.com); Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Davenport, Peter (CTR) - OO, Washington, DC <[Peter.Davenport@USDA.GOV](mailto:Peter.Davenport@USDA.GOV)>; Tucker, Carlton - OSSP, Washington, DC <[carlton.tucker@usda.gov](mailto:carlton.tucker@usda.gov)>  
**Subject:** RE: Access this Friday 6-12-20 at GWCC - MLS Reforestation

**Good Morning** Ms. LaRoche, Ms. Alexander and Mike, Seth and Steve,

This is GWCC Security, Mike Kane and Captain Tim Brooks, we are touching base with you and confirming your Friday, June 12, 2020, 10am (ish) visit here to GWCC.

We look forward to meeting and assisting you. Captain Tim Brooks will be your point of contact once here. Simply stop at the front main lobby entrance, and ask for him. The GWCC Security Control Center number is 301-504-2370 for information.

Be safe & remember masks and social distancing,

Thank You,  
 Mike Kane and Captain Tim Brooks  
 GWCC Security

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**From:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Sent:** Wednesday, June 3, 2020 4:31 PM  
**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; [wicker.seth@cemscience.com](mailto:wicker.seth@cemscience.com); Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Kane, Michael - OSSP, Washington, DC <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>; Davenport, Peter (CTR) - OO, Washington, DC <[Peter.Davenport@USDA.GOV](mailto:Peter.Davenport@USDA.GOV)>; Tucker, Carlton - OSSP, Washington, DC <[carlton.tucker@usda.gov](mailto:carlton.tucker@usda.gov)>; Carroll, Chad - OSSP, Washington, DC <[chad.carroll@usda.gov](mailto:chad.carroll@usda.gov)>; LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Subject:** RE: Access request - GWCC Grounds - MLS Reforestation - Potential Planting Tree Areas

Your welcome

---

**From:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
**Sent:** Wednesday, June 3, 2020 4:09 PM  
**To:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; [wicker.seth@cemscience.com](mailto:wicker.seth@cemscience.com); Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Kane, Michael - OSSP, Washington, DC <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>; Davenport, Peter (CTR) - OO, Washington, DC <[Peter.Davenport@USDA.GOV](mailto:Peter.Davenport@USDA.GOV)>; Tucker, Carlton - OSSP, Washington, DC <[carlton.tucker@usda.gov](mailto:carlton.tucker@usda.gov)>; Carroll, Chad - OSSP, Washington, DC <[chad.carroll@usda.gov](mailto:chad.carroll@usda.gov)>  
**Subject:** RE: Access request - GWCC Grounds - MLS Reforestation - Potential Planting Tree Areas



Thank you so much Doreen! Yes, I will forward the email to Steve.

Anita Alexander  
Consultant for Maryland Department of Transportation, State Highway Administration  
C: (609) 273-7735

**ANITA G. ALEXANDER**  
Associate Environmental Scientist



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**From:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Sent:** Wednesday, June 3, 2020 3:59 PM  
**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; [wicker.seth@cemscience.com](mailto:wicker.seth@cemscience.com); Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Kane, Michael - OSSP, Washington, DC <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>; Davenport, Peter (CTR) - OO, Washington, DC <[Peter.Davenport@USDA.GOV](mailto:Peter.Davenport@USDA.GOV)>; Tucker, Carlton - OSSP, Washington, DC <[carlton.tucker@usda.gov](mailto:carlton.tucker@usda.gov)>; Carroll, Chad - OSSP, Washington, DC <[chad.carroll@usda.gov](mailto:chad.carroll@usda.gov)>; LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Subject:** RE: Access request - GWCC Grounds - MLS Reforestation - Potential Planting Tree Areas

Ms. Alexander you are all set for the Field visit on the 12<sup>th</sup> of June please see the information for your teams arrival below. Let me know if you have any additional needs. The only email that was not sent was to Mr. Wicker, please forward this email to him.

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**From:** Kane, Michael - OSSP, Washington, DC <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>  
**Sent:** Wednesday, June 3, 2020 3:34 PM  
**To:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>; Carroll, Chad - OSSP, Washington, DC <[chad.carroll@usda.gov](mailto:chad.carroll@usda.gov)>  
**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)>; [wicker.seth@cemscience.com](mailto:wicker.seth@cemscience.com); Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Brooks, Timothy (CTR) - OO, Washington, DC <[timothyw.brooks@usda.gov](mailto:timothyw.brooks@usda.gov)>; Davenport, Peter (CTR) - OO, Washington, DC <[Peter.Davenport@USDA.GOV](mailto:Peter.Davenport@USDA.GOV)>; Tucker, Carlton - OSSP, Washington, DC <[carlton.tucker@usda.gov](mailto:carlton.tucker@usda.gov)>  
**Subject:** Re: Access request - GWCC Grounds - MLS Reforestation - Potential Planting Tree Areas

Hello again Ms. LaRoche,

We are happy to assist you and your team with a GWCC visit.

As you know, parking will be no problem at GWCC (5601 Sunnyside Ave. Beltsville, MD).



We will be expecting you at 10am, Friday, June 12, 2020. Once you have parked in the parking lot, please enter into the front main lobby entrance and proceed to the Officers security desk. Have ID and advise them who you are. Captain Brooks will have assigned an Officer to work with you. (Sorry, I don't know who that is yet). We anticipate using our ATV to escort you while you follow along in your car.

We look forward to meeting you, Mike, Seth and Steve !!

Remember social distancing and masks.

Thanks,

Mike Kane, GWCC  
Supervisor Security Specialist  
OSSP, USDA  
Cell: 202-294-1773

---

**From:** "LaRoche, Doreen - OO, Washington, DC" <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Date:** Wednesday, June 3, 2020 at 3:12:08 PM  
**To:** "Kane, Michael - OSSP, Washington, DC" <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>, "Carroll, Chad - OSSP, Washington, DC" <[chad.carroll@usda.gov](mailto:chad.carroll@usda.gov)>  
**Cc:** "Lam, Bahn - OO, Washington, DC" <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>, "Anita Alexander" <[aalexander@rkk.com](mailto:aalexander@rkk.com)>, "Marra, Michael" <[mmarra@cemsience.com](mailto:mmarra@cemsience.com)>, "Hinder, Seth" <[SHinder@cemsience.com](mailto:SHinder@cemsience.com)>, "[wicker.seth@cemsience.com](mailto:wicker.seth@cemsience.com)" <[wicker.seth@cemsience.com](mailto:wicker.seth@cemsience.com)>, "Kate Gordon" <[kgordon@rkk.com](mailto:kgordon@rkk.com)>, "Greg OHare" <[gohare@rkk.com](mailto:gohare@rkk.com)>, "Christina Brandt" <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>, "LaRoche, Doreen - OO, Washington, DC" <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>  
**Subject:** RE: Access request for I-495/I-270 MLS Reforestation Mitigation Field Review of Potential Planting Areas

Here is their contact info and they have been copied in the email. Could you please let me know where they are to meet their escort at 10 am on the 12<sup>th</sup> of June?  
Mike Marra (302) 290-9245  
Seth Hinder (410) 983-1239  
Steve Wicker (410) 322-6863

Thanks for all your help in getting this field visit accomplished.

Doreen Christian La Roche, Civil Engineer  
Office of Operations, Facilities Management Division  
Engineering Branch  
Cell – 202- 497-0068

---

**From:** Kane, Michael - OSSP, Washington, DC <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>  
**Sent:** Wednesday, June 3, 2020 2:55 PM  
**To:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>; Carroll, Chad - OSSP, Washington, DC <[chad.carroll@usda.gov](mailto:chad.carroll@usda.gov)>  
**Cc:** Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>; Brooks, Timothy (CTR) - OO, Washington, DC <[timothyw.brooks@usda.gov](mailto:timothyw.brooks@usda.gov)>  
**Subject:** Re: Access request for I-495/I-270 MLS Reforestation Mitigation Field Review of Potential Planting Areas

Thank you for your quick response Ms. LaRoche. The map is most helpful.

We will have an officer accompany your contractors and make sure they get to see whatever is needed at GWCC on Friday, June 12, 2020, at approximately 10am.



Also, thanks for getting the phone info which will ensure good connectivity.

Have a good day,

Mike Kane, GWCC  
Supervisor Security Specialist  
OSSP, USDA  
Cell: 202-294-1773

---

**From:** "LaRoche, Doreen - OO, Washington, DC" <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Date:** Wednesday, June 3, 2020 at 2:34:18 PM

**To:** "Kane, Michael - OSSP, Washington, DC" <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>, "Carroll, Chad - OSSP, Washington, DC" <[chad.carroll@usda.gov](mailto:chad.carroll@usda.gov)>

**Cc:** "Lam, Bahn - OO, Washington, DC" <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>, "LaRoche, Doreen - OO, Washington, DC" <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Subject:** RE: Access request for I-495/I-270 MLS Reforestation Mitigation Field Review of Potential Planting Areas

Mr. Kane this project has nothing to do with the GWCC Modernization Project I gave you the project in the subject above. If some one from my office is required please let me know. I have attached the map with all the locations FYI

---

**From:** Kane, Michael - OSSP, Washington, DC <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>

**Sent:** Wednesday, June 3, 2020 2:19 PM

**To:** LaRoche, Doreen - OO, Washington, DC <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>; Carroll, Chad - OSSP, Washington, DC <[chad.carroll@usda.gov](mailto:chad.carroll@usda.gov)>; Lam, Bahn - OO, Washington, DC <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>

**Cc:** Amini, Hossein - OO, Washington, DC <[Hossein.Amini@USDA.GOV](mailto:Hossein.Amini@USDA.GOV)>; Willis, Samuel - OHS, Washington, DC <[samuel.willis@usda.gov](mailto:samuel.willis@usda.gov)>; Brooks, Timothy (CTR) - OO, Washington, DC <[timothyw.brooks@usda.gov](mailto:timothyw.brooks@usda.gov)>; Bamiro, Yvette - OO, Washington, DC <[Yvette.Bamiro@USDA.GOV](mailto:Yvette.Bamiro@USDA.GOV)>

**Subject:** Re: Access request for I-495/I-270 MLS Reforestation Mitigation Field Review of Potential Planting Areas

Hello Ms. LaRoche,

I have received your email and asking for clarification:

I am a Security Specialist at GWCC and I work for Director Chad Carroll. I (security) would be more than happy to assist with any tours and/or visits of the GWCC complex.

My first thought/question is, I am wondering if this is part of the GWCC modernization project or a different project?

I am not clear as to the area/location you are requesting to see. I don't know if there was an attachment intended within email but, I did not receive. Please further clarify and identify the "selected sites" at GWCC you are wanting to visit. In addition, who from Your office and/or USDA would be attending the visit with the contractors. Also, phone / email contact information of the participants is requested

I have included additional members within this email for their FYI.

Looking to assist in any way we can,

Mike Kane, GWCC  
Supervisor Security Specialist  
OSSP, USDA  
Cell: 202-294-1773



**From:** "LaRoche, Doreen - OO, Washington, DC" <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>

**Date:** Wednesday, June 3, 2020 at 1:53:11 PM

**To:** "Carroll, Chad - OSSP, Washington, DC" <[chad.carroll@usda.gov](mailto:chad.carroll@usda.gov)>, "Kane, Michael - OSSP, Washington, DC" <[MichaelW.Kane@USDA.gov](mailto:MichaelW.Kane@USDA.gov)>

**Cc:** "LaRoche, Doreen - OO, Washington, DC" <[Doreen.LaRoche@USDA.GOV](mailto:Doreen.LaRoche@USDA.GOV)>, "Lam, Bahn - OO, Washington, DC" <[Bahn.Lam@USDA.GOV](mailto:Bahn.Lam@USDA.GOV)>

**Subject:** Access request for I-495/I-270 MLS Reforestation Mitigation Field Review of Potential Planting Areas

Good afternoon Mr. Carroll and Mr. Kane. My name is Doreen Christian LaRoche a Civil Engineer for the Office of Operations Engineering Branch. I am the POC Project Manager for the above referenced project for USDA. The project is being conducted by The Maryland Department of Transportation, State Highway Administration (MDOT/SHA). They are seeking areas where they can plant trees within the areas mentioned above. USDA has met with them and have identified by maps where they could plant said trees.

The representatives would like to visit the sites selected at GWCC to do a field review. Please find the information that I have so far. Please let me know if any additional information is required to accomplish their field review. Thanks in advance.

The subcontractor Chesapeake Environmental Management (CEM) will be conducting the site visit on behalf of MDOT/SHA. The representatives that will attend are Mike Marra and Seth Hinder and or Steve Wicker will be his replacement if that is the case.

1. Date and time and anticipated duration of the walkthrough - **June 12<sup>th</sup> at 10 am, 1.5 - 2 hours**
2. How will the walkthrough be conducted: by foot or by car? - **Both, the team will walk or drive to the planting areas as needed.**
3. How many people and or cars – **Two people in one car**
4. List of names and last 4 digits of their SSN – **Mike Marra (6312), Seth Hinder (3500), Steve Wicker (2039)**

Doreen Christian La Roche, Civil Engineer  
Office of Operations, Facilities Management Division  
Engineering Branch  
Cell – 202- 497-0068

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**I-495 & I-270 Managed Lanes Study  
Potential Reforestation Mitigation Opportunities at USDA  
George Washington Carver Center Campus  
May 14, 2020 @ 11:00am**

A desktop site review meeting was conducted on May 14, 2020 with representatives from the United States Department of Agriculture (USDA) to discuss potential planting opportunities on the George Washington Carver Center (GWCC) campus for reforestation mitigation credits needed for the I-495 & I-270 Managed Lanes Study (MLS). A summary of the topics discussed at the meeting follows.

### Introductions

Participants met online via Microsoft Teams for a video call. The meeting began with introductions, followed by a summary of MDOT SHA's P3 Program, the I-495 & I-270 Managed Lanes Study and the overall project schedule. The Maryland Reforestation Law was described in detail to explain the reforestation mitigation needs for this project. The group reviewed KMZs of potential planting areas developed by the MLS NEPA Team in Google Earth and discussed the viability of each site.

### Planting Opportunities

- Bahn Lam noted that the planting areas near the solar farms (1A, 1B, and 2A) should be eliminated, as tree canopy cover and leaves will shade/ interfere with solar farm operations.
- Planting area 2B is feasible if the planting boundary is set back from the building to allow space to maintain a strip of lawn adjacent to the building.
- Planting areas 3A and 3B are good candidates. There are no stormwater management facilities near these planting areas, so the planting boundaries may be expanded as needed.
  - **8/7 MLS Update:** Based on cultural resources comments received on 8/3/2020, USDA\_3A is a National Register of Historic Places (NRHP) eligible prehistoric site (18PR94). Intact components may remain below the ground surface. Whips could be planted to avoid significant ground disturbance under MDOT SHA's Memorandum of Understanding (MOU) with MHT.
- Planting area 4A is feasible, but the planting boundary should be offset from the buried gas utility line near the edge of the building. Bahn mentioned that he can provide GIS utility data to the MLS Team, including gas utility data.
- Planting areas 4B and 4C are acceptable as proposed.
- Planting area 4D is feasible, but the portion within the residential area should be avoided, ensuring all planting is on USDA property.
- Planting area 5A is feasible.
  - **8/7 MLS Update:** Based on USDA GWCC's comments sent on 8/3/2020, planting area 5A is no longer feasible.
- Planting areas 5B and 6A are good candidates. Avoid planting adjacent to light poles along the road.
  - **8/7 MLS Update:** Based on USDA GWCC's comments sent on 8/3/2020, planting area 5B is no longer feasible.
- The upper left half of planting area 7A and entire portion of 7B belong to BARC. Any planting opportunities within these areas need to be coordinated with BARC staff.
  - **8/7 MLS Update:** Planting areas 7A and 7B are not available.

### General Project Questions & Comments

- Tom Hoffman asked about the planting density required for reforestation mitigation. Greg responded that





## USDA Forest Mitigation Desktop Review

May 14, 2020

the density will depend on the proposed size of the plant material. Plant material size will be determined by MDOT SHA's P3 Developer, later in the design process. The standard reforestation density is 200 trees/acre for container grown plantings, 350 trees/acre for seedlings.

- Major indoor renovations on the GWCC campus will start in Fall 2020 – 2021. Outdoor renovations including a new parking lot within the right half of planting area 7A, will occur in 2021 – 2022. The developer will factor campus projects into future planting schedules.
- How will the I-495/I-270 MLS project impact the GWCC campus?
  - **MLS Response:** *There will be no direct impacts to the USDA GWCC property. The project limits of disturbance follows the existing SHA Right-of-Way line along the south end of the GWCC property. A retaining wall is proposed along the I-495 outer loop in this area to limit impacts to the BARC historic property and stay within existing Right-of-Way. The I-95/I-495 mainline bridge crossing the CSX tracks near the Greenbelt Metro Station is currently proposed to be widened, but not replaced as a result of adding new mainline lanes. The widening would occur in the median and along the outside of the existing structures.*
- Will the I-495 Bridge crossing over the railroad tracks from Greenbelt Metro Station be impacted by the project? There is another pedestrian crossing project planned under the bridge that could be impacted by the MLS project.
  - **MLS Response:** *The adjacent bridge that carries the I-495 inner loop exit ramp to the Greenbelt Metro Station over the CSX tracks is proposed to be replaced due to the widening of the mainline structure. Any information USDA is willing to share about the pedestrian walkway project will be helpful for us to compare with the latest MLS plans and determine potential impacts or conflicts at the Greenbelt Metro Station.*

### Action Items

- The MLS Team will revise planting boundaries per the USDA feedback received during the desktop review meeting and provide a list of site preferences.
  - *The planting area boundaries have been revised. Anita Alexander provided KMZs and Google Earth screenshots of the revised planting areas and list of site preferences to Doreen LaRoche on 5/20/2020.*
- The MLS Team will develop preliminary mapping that shows the revised boundaries for potential planting areas, access notes, and general site notes for USDA to review and approve.
  - *Mapping is attached.*
- The MLS Team will schedule a field meeting with USDA on the GWCC campus to review and further refine the proposed planting area boundaries.
  - *A meeting was scheduled for June 12th, 2020.*
- USDA will send the MLS Team a list of approved sites available for reforestation planting after internal review.

### Field Review Updates

- Representatives from the MLS Team conducted a site visit on the GWCC campus on June 12, 2020.
- Planting boundaries were verified and observed planting conflicts were noted.
- The planting boundaries for USDA\_3A & USDA\_3B were revised to include a 35 ft. clearance for utilities that pose a planting conflict. See revised boundaries on the attached mapping.
- The planting boundary for USDA\_6A was expanded to include additional area south of the previous boundary, on the west side near the main entrance.
- The revised planting boundaries account for a total of 7.27 AC of proposed reforestation planting area on the GWCC Campus.





## USDA Forest Mitigation Desktop Review

May 14, 2020

- **8/7 MLS Update:** Excluding planting areas USDA\_5A and USDA\_5B, the total proposed reforestation planting area on the GWCC campus is now 5.60 AC.

### Attendees:

Name	Agency	Email
Greg O'Hare	MDOT SHA/RK&K	<a href="mailto:gohare@rkk.com">gohare@rkk.com</a>
Kate Gordon	MDOT SHA/RK&K	<a href="mailto:kgordon@rkk.com">kgordon@rkk.com</a>
Anita Alexander	MDOT SHA/RK&K	<a href="mailto:aalexander@rkk.com">aalexander@rkk.com</a>
Doreen LaRoche	USDA	<a href="mailto:Doreen.LaRoche@USDA.gov">Doreen.LaRoche@USDA.gov</a>
Bahn Lam	USDA	<a href="mailto:Bahn.Lam@USDA.gov">Bahn.Lam@USDA.gov</a>
Fidel Delgado	USDA	<a href="mailto:Fidel.Delgado@USDA.gov">Fidel.Delgado@USDA.gov</a>
Buffy Brown	USDA	<a href="mailto:Buffy.Brown@USDA.gov">Buffy.Brown@USDA.gov</a>
Catherine Broad	USDA	<a href="mailto:Catherine.Broad@USDA.gov">Catherine.Broad@USDA.gov</a>
Tom Hoffman	USDA	<a href="mailto:Thomash.Hoffman@USDA.gov">Thomash.Hoffman@USDA.gov</a>





NOTE:  
NO WETLANDS OR WATERWAYS ARE MAPPED WITHIN  
THE PROPOSED REFORESTATION AREAS ACCORDING TO  
NWI AND DNR MAPPING. A FIELD INVESTIGATION WAS  
CONDUCTED ON JUNE 12, 2020 TO REVIEW AND REFINE THE  
PROPOSED PLANTING BOUNDARIES.

Potential Reforestation Areas

Unavailable Areas

USDA Parcel Boundary

Adjacent Parcel Boundary

Planting Conflict

FEMA 100 Yr Floodplain

FEMA 500 Yr Floodplain

DNR Wetlands

NWI Waters

DNR Waters

0

125

250

500

Feet

TOTAL PLANTING ACREAGE: 5.60 AC

Potential Reforestation Planting Opportunities at the USDA George Washington Carver Center Campus

DRAFT, DELIBERATIVE, PRE-DECISIONAL

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## USFWS Patuxent Research Refuge Forest Mitigation Field Review

July 1, 2020

### I-495 & I-270 Managed Lanes Study USFWS Patuxent Research Refuge Forest Mitigation Field Review July 1, 2020 @ 8:30 AM

#### Attendees:

Name	Agency	Phone	Email
Sandy Spencer	USFWS – WB	301-497-5587	<a href="mailto:sandy_spencer@fws.gov">sandy_spencer@fws.gov</a>
Mike Marra	MDOT SHA P3	302-290-9245	<a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a>
Kristen Hyde	MDOT SHA P3	443-466-4181	<a href="mailto:khyde@cemsience.com">khyde@cemsience.com</a>

#### Meeting Summary

A follow up field review meeting was conducted on July 1, 2020 at the USFWS Patuxent Research Refuge with USFWS staff to refine the potential forest mitigation site boundaries for the I-495 & I-270 Managed Lanes Study (MLS). The results of the field investigation are summarized below.

#### Field Investigation

Participants met at the Patuxent Research Refuge at 230 Bald Eagle Drive, Laurel, MD 20724. Sandy Spencer escorted the MLS NEPA team to the potential planting sites. Based on field observations, all sites are still acceptable for reforestation planting. However, the following site boundaries have been modified to exclude areas with planting conflicts, which reduces the overall planting acreage to a total of 63.9 AC. See attached for updated mapping of all proposed sites.

- **USFWS\_1: North Tract Drop Zone** – 25.5 acres – site boundary was modified to exclude existing sweetgum stands located to the south, west, and east. Concrete observation pads were also located and are shown on the mapping.
- **USFWS\_2: South Tract Area 51** – 7.75 acres – site boundary was modified to exclude a large potential wetland area observed in the northeast corner of the site. A full wetland delineation will be needed in the future to finalize the potential planting site boundary.
- **USFWS\_4: Loblolly Drive Demolition Site**– 2.36 acres – site boundary was modified to exclude the existing driveway, which will remain for hunter parking access.
- **USFWS\_11: Central Tract Endangered Species Area C** – 6.24 acres – acreage remains the same. Please confirm plans for the crane facility located in the center of the site - will USFWS demolish the facility to allow planting within the 1.2 AC area?
- **USFWS\_12: Quarters 64 and 65 Post Demolition** – 1.45 acres – site boundary was modified to exclude a 40 ft. buffer around the existing overhead utility line observed onsite as well as the existing road. Please confirm if the utility line and road will be abandoned in the future. If so, we will keep the original site boundary.
- **USFWS\_13: Contractor Yard** – 2.44 acres – site boundary was modified to exclude the existing driveway, which will remain for USFWS access.





## **USFWS Patuxent Research Refuge Forest Mitigation Field Review**

July 1, 2020

### **Action Items:**

- USFWS will review proposed planting sites as shown on attached mapping and provide responses to questions and comments about any necessary site boundary adjustments.





## USFWS Patuxent Research Refuge Forest Mitigation Field Review

March 11, 2020

### I-495 & I-270 Managed Lanes Study USFWS Patuxent Research Refuge Forest Mitigation Field Review March 11, 2020 @ 10:00 am

#### Attendees:

Name	Agency	Phone	Email
Sandy Spencer	USFWS – WB	301-497-5587	<a href="mailto:Sandy_spencer@fws.gov">Sandy_spencer@fws.gov</a>
Tarik Adams	USFWS – RM	301-497-5817	<a href="mailto:Tarik_adams@fws.gov">Tarik_adams@fws.gov</a>
Ray Li	USFWS	410-573-4522	<a href="mailto:Ray_li@fws.gov">Ray_li@fws.gov</a>
Greg O'Hare	MDOT SHA P3 / RK&K	<a href="tel:410-462-9165">410-462-9165</a>	<a href="mailto:gohare@rkk.com">gohare@rkk.com</a>
Kate Gordon	MDOT SHA P3 / RK&K	<a href="tel:410-962-9131">410-962-9131</a>	<a href="mailto:kgordon@rkk.com">kgordon@rkk.com</a>

#### Meeting Summary

A field review meeting was conducted on March 11, 2020 at the USFWS Patuxent Research Refuge with USFWS staff to discuss potential forest mitigation sites for the I-495 & I-270 Managed Lanes Study (MLS). A summary of the topics discussed at the meeting follows.

#### Introductions

Participants met at the Environmental Education Building on the North Tract of the Patuxent Research Refuge at 230 Bald Eagle Drive, Laurel, MD 20724. The meeting began with introductions. Greg O'Hare gave an overview of the project, summarized the Reforestation Law mitigation process and discussed the credit needs for the project. Sandy Spencer gave an overview of the potential planting sites on the Patuxent Research Refuge. The following is a summary of the discussion before the group drove to each of the potential planting sites to discuss mitigation opportunities:

- The USFWS Patuxent Research Refuge encompasses 12,841 acres and is broken into three parts: the North Tract, Central Tract and South Tract.
- The USFWS obtained the North Tract from Fort Meade and unexploded ordnance (UXOs) screening will be required to plant within the area. UXOs are not a concern on the Central or South Tract sites.
- Sandy asked how densely the trees would be planted. Greg indicated that planting density would depend on the size of the plant material specified, but typically smaller container-grown trees are planted at about 200 trees per acre, seedlings with shelters at 350 per acre, and larger stock at 100 trees per acre. Sandy is interested in planting less densely to ensure there is adequate room for maintenance and to reduce the UXO screening efforts. USFWS is especially interested in having larger stock and fewer trees planted at the Drop Zone so that fewer holes are dug and there is adequate space for mowing between the trees if needed.
- Sandy asked about the length of the maintenance agreement, and Ray asked if MDOT SHA would be willing to share ICC Project Reforestation Agreements with USFWS staff as examples of previous agreements between MDOT SHA and public property owners. USFWS





wants the MLS Project planting agreement to include five years of maintenance so that the trees will be well maintained and established before they are turned over to USFWS for long-term care. USFWS is too short staffed to provide the long-term care that tree plantings typically need and cannot commit to more tree plantings on USFWS property without an adequate maintenance period. Greg explained that on similar large-scale reforestation projects like the ICC, MDOT SHA has committed to two years of maintenance on most sites. MDOT SHA typically provides maintenance on planting sites that may include invasive species control (e.g., targeted herbicide application, vine removal, mowing, etc.), watering, plant care and replacement, and maintenance of deer protection (if needed based on site conditions).

- Under Maryland's Reforestation Law, planting must occur within two years or three growing seasons of the completion of roadway construction. The Reforestation Law mitigation plantings on public lands will likely occur within the first phase of the MLS Project.

## Mitigation Opportunities

### North Tract

The North Tract is located north of the Patuxent River. It was acquired by USFWS from Ft. Meade in 1991 and potentially has unexploded ordnance (UXOs) on the property. The property was swept for UXOs before the transfer in 1991, but out of an abundance of caution, it is necessary to have a certified UXO technician sweep the area where any holes will be dug. Sandy estimated that the cost would be about \$800/day. This will impact the two sites in the North Tract.

- Sandy will provide some more specifics on cost and how many planting holes could potentially be cleared in a day. *[Sandy provided these specifics following the meeting. Daily rates range from \$800/day to \$1,000/day based on recent quotes from contractors for a project that required one day of sweeping for 5 sites at distant locations from each other and for two depth levels. For that project the UXO sweeper was able to clear 5 holes in half a day, but that included the travel time between the sites, which were miles apart. The MDOT SHA P3 Developer will be responsible for getting updated quotes from approved UXO contractors. See attachment 1 for list of contractors and quotes.]*

See attached mapping for individual site locations.

- **USFWS\_1: Drop Zone** – 46.63 acres – open field where USFWS has been trying to create an oak pine savannah. Site has been managed using spraying and burning. Pockets of sweetgum regeneration. Minor levels of invasive species scattered across site, including small pockets of phragmites. Site will require a wetland delineation to refine the planting site boundary.
- **USFWS\_13: Contractor Yard** – 2.70 acres – site located off of Wildlife Loop. Site has been used as a stockpile area, but USFWS will clear the debris and move the stockpiles. Much of the site is compacted.
  - Sandy agreed to see whether USFWS could rip the site and incorporate compost to alleviate the soil compaction prior to planting by the MLS Project.

### Central Tract





The Central Tract is located south of the Patuxent River. Individual sites are shown on attached mapping and described briefly below.

- **USFWS\_11: Central Tract Endangered Species Area C** – 6.24 acres – open field previously used for whooping crane program. Site is mowed and USFWS will continue to mow to control invasive species until planting. Tree of heaven (*Ailanthus altissima*) were noted in the surrounding forest, and USFWS will treat prior to planting by the MLS Project.
- **USFWS\_10: Central Tract Endangered Species Area B** – 4.31 acres – mowed field adjacent to pond. Site is surrounded by forest edges/hedgerows dominated by invasive species. Site may be expanded to include treatment of invasive species in surrounding forest edges & replanting as needed.
- **USFWS\_9: Central Tract Endangered Species Area A** – 6.29 acres – mowed field surrounded by forest and invasive hedgerow. Sandy will check with USGS (who still is using adjacent field for research) to determine if invasives can be treated in hedgerow.
- **USFWS\_12: Quarters 64 and 65** (post demolition) – 1.83 acres – old staff quarters, buildings and utilities will be removed by USFWS within the next five years. The basements will be filled in and covered with topsoil, leafgro and seed. The driveway may be left for site access.
- **USFWS\_4: Loblolly Drive Demolition Site**– 2.91 acres – old staff quarters have already been removed by USFWS and basements have been filled in and covered with topsoil. USFWS still plans on incorporating leafgro into the soil and seeding, as well as removing the utilities on the site. Sandy will check whether the driveway pavement removal is already contracted by USFWS, or if the MLS project could do the pavement removal as SWM mitigation.
- **USFWS\_7: Mabbot Pond Field** – 1.48 acres – mowed field with no invasives observed within site or in surrounding forest. Easily accessed off of Tram route.
- **USFWS\_8: Harding Spring Pond Field**– 0.59 acres – mowed field off of tram route. Need to keep two parking spots open for hunters.
- **USFWS\_6: ST 42h North of VC** – 1.53 acres – mowed field north of the Visitor Center with existing cedars. Maintain a five foot wide access path to the Motus tower in the middle of the field and leave a five foot buffer open at the base of the tower.
- **USFWS\_5: ST north of TTP** – 0.76 acres – mowed field along the Scarlet Tanager Loop, north of the tertiary treatment ponds.
- **USFWS\_3: Cash Lake Peninsula** – 3.22 acres – open field with small patches of sweetgum regeneration and some invasives. Maintain the access road through site to the bridge over Cash Lake.

#### *South Tract*

- **USFWS\_2: South Tract Area 51** – 11.47 acres – large open field that can be accessed through USDA BARC property from Springfield Road. Invasives including Bradford pear and multiflora rose are scattered throughout site, with a few large patches of Phragmites. A number of potential wetlands were observed during the site visit and a full wetland delineation will be needed to refine the potential planting site boundary.

#### **Action Items:**

- USFWS will review proposed planting sites as shown on attached mapping and provide comments about any necessary site adjustments.





- Sandy will provide feedback on the expected cost of the UXO investigations on the North Tract sites. *[Sandy provided a list of UXO sweeping contractors following the meeting. Daily rates range from \$800/day to \$1,000/day based on recent quotes from contractors for a project that required one day of sweeping for 5 sites at distant locations from each other and for two depth levels. For that project the UXO sweeper was able to clear 5 holes in half a day, but that included the travel time between the sites, which were miles apart. The MDOT SHA P3 Developer will be responsible for getting updated quotes from approved UXO contractors. See attachment 1 for list of contractors and quotes.]*
- Sandy will determine whether the hedgerow adjacent to Endangered Species Area A can be cleared/invasives treated. *[Sandy confirmed following the meeting that there would be no problem removing the invasives in the hedgerow at Area A.]*
- Sandy will determine whether the Loblolly Drive pavement is scheduled for removal by USFWS, or if the MLS project can remove for SWM credit. *[Sandy confirmed following the meeting that the pavement will be left in place for hunter parking.]*
- MDOT SHA will provide draft agreements from the ICC as examples for USFWS review. *[Kate emailed these to Ray & Sandy on April 7, 2020 as examples of previous agreements, not commitments for planting of USFWS sites by the MLS Project.]*
- Sandy will determine whether USFWS staff could rip the Contractor Yard site and incorporate compost to remediate soil compaction.
- Additional field visits to refine site boundaries can be conducted by contacting Sandy and arranging to have a vehicle pass & permit sent in advance of the field visit.





### ATTACHMENT 1

#### List of UXO Contractors Provided by USFWS

##### Recent contractors & quotes:

- 1) Yorkie Knowles  
ERT  
Phone = 727 688 4856  
Quote = \$400 for half day; \$800 for full day
- 2) Dave Mercante  
EA  
Quote = \$1,000/day
- 3) Jenna Perman  
Ordnance Holdings, Inc (OHI)  
Email = Jenna@ordnanceholdings.com  
Quote = Daily rate: \$880

##### Other UXO Contractors:

1. USA Environmental:  
David Moccia  
720 Brooker Creek Blvd; Suite 204  
Oldsmar, FL 34677  
Work: 813-343-6378  
Mobile: 813-426-2449  
dmoccia@usatampa.com
2. Bill Eaton  
URS Corporation  
12420 Milestone Center Drive, Suite 150  
Germantown, MD 20876  
Tel: 301-820-3454  
Cell: 301-335-6359  
Fax: 301-820-3009  
[bill.eaton@urs.com](mailto:bill.eaton@urs.com)





3) ARA Incorporated  
Director, Engineering & Sciences  
7520 Main St, Suite 103  
Sykesville MD, 21784  
443-609-4048 (Phn)  
443-609-4051 (Fax)  
443-745-4163 (Cel)  
[www.arainc.net](http://www.arainc.net)

4) Explosive Safety Specialist  
ETSC  
9104 Guilford Road Suite 1010  
Columbia, MD 21046  
Tel: 256-310-0832

5) Kevin Kerns  
Marina Diving Services  
EOD Specialist  
843-478-3633

6) Weston Solutions, Inc.  
1400 Weston Way  
P.O. Box 2653  
West Chester, PA 19380-2653  
Phone: 610-701-3000  
Fax: 610-701-3186  
E-Mail: [ContactWeston@WestonSolutions.com](mailto:ContactWeston@WestonSolutions.com)



**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREAPOLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW BASED ON POLYGONS RECEIVED FROM USFWS, AS WELL AS FIELD DATA FROM A SITE REVIEW WITH USFWS ON 3/11/2020. THE MLS NEPA TEAM CONDUCTED A FOLLOW UP FIELD REVIEW ON 7/1/2020 TO CONFIRM AND REFINE THE PLA NTING BOUNDARITES. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH USFWS. NO PLANTING IS PROPOSED WITHIN WETLANDS.



**SITE ACCESS NOTE:**  
Access road leads to site.

**LEGEND**

- |                         |                        |              |
|-------------------------|------------------------|--------------|
| Potential Planting Area | FEMA 100 Yr Floodplain | DNR Wetlands |
| Planting Conflict       | FEMA 500 Yr Floodplain | NWl Wetlands |
| NWl Waters              | DNR Waters             |              |
- 0 100 200 400 Feet  
1 inch = 200 feet

**Potential Reforestation Planting Opportunities at USFWS**  
**Patuxent Research Refuge**  
**USFWS\_1: North Tract Drop Zone Site**  
*HUC-6: 20600 Patuxent River Watershed*  
*Anne Arundel County*  
**Total Planting Acreage: 25.5**

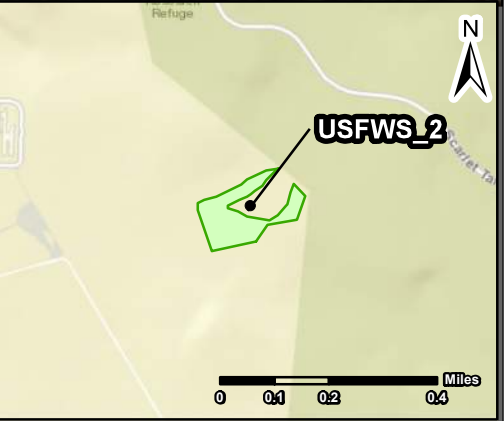
Map 1 of 13 JULY 2020

**MANAGED LANES STUDY**

**DRAFT, DELIBERATIVE**  
**PRE-DECISIONAL**



**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREAPOLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW BASED ON POLYGONS RECEIVED FROM USFWS, AS WELL AS FIELD DATA FROM A SITE REVIEW WITH USFWS ON 3/11/2020. THE MLS NEPA TEAM CONDUCTED A FOLLOW UP FIELD REVIEW ON 7/1/2020 TO CONFIRM AND REFINE THE PLA NTING BOUNDARITES. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH USFWS. NO PLANTING IS PROPOSED WITHIN WETLANDS.



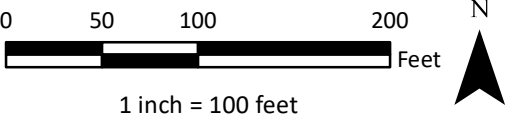
POTENTIAL WETLAND

**SITE ACCESS NOTE:**  
Access off of Springfield Road.

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- |                         |                        |              |
|-------------------------|------------------------|--------------|
| Potential Planting Area | FEMA 100 Yr Floodplain | DNR Wetlands |
| Planting Conflict       | FEMA 500 Yr Floodplain | NWI Wetlands |
| NWI Waters              | DNR Waters             |              |



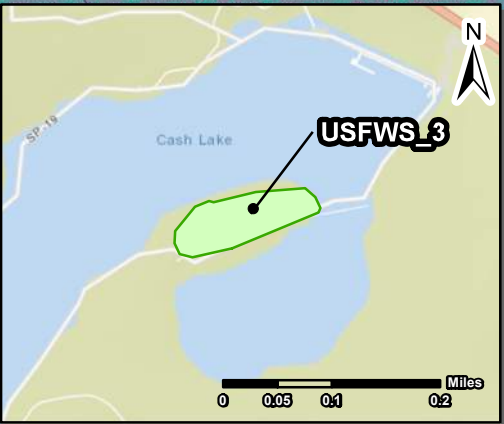
**Potential Reforestation Planting Opportunities at USFWS**  
**Patuxent Research Refuge**  
**USFWS\_2: South Tract Area 51 Site**  
*HUC-6: 20600 Patuxent River Watershed*  
*Prince George's County*  
**Total Planting Acreage: 7.75**

Map 2 of 13

JULY 2020



**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREAPOLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW BASED ON POLYGONS RECEIVED FROM USFWS, AS WELL AS FIELD DATA FROM A SITE REVIEW WITH USFWS ON 3/11/2020. THE MLS NEPA TEAM CONDUCTED A FOLLOW UP FIELD REVIEW ON 7/1/2020 TO CONFIRM AND REFINE THE PLANTING BOUNDARITES. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH USFWS. NO PLANTING IS PROPOSED WITHIN WETLANDS.



MAINTAIN EXISTING 8 FT. TRAIL.

**SITE ACCESS NOTE:**  
8 ft. trail around ponds/lakes.

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- Potential Planting Area

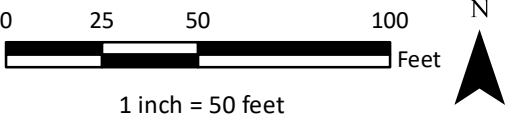
Planting Conflict

NWI Waters
- FEMA 100 Yr Floodplain

FEMA 500 Yr Floodplain

DNR Waters
- DNR Wetlands

NWI Wetlands



**Potential Reforestation Planting Opportunities at USFWS**  
**Patuxent Research Refuge**  
**USFWS\_3: South Tract Cash Lake Peninsula Site**  
*HUC-6: 20600 Patuxent River Watershed*  
*Prince George's County*  
**Total Planting Acreage: 3.22**

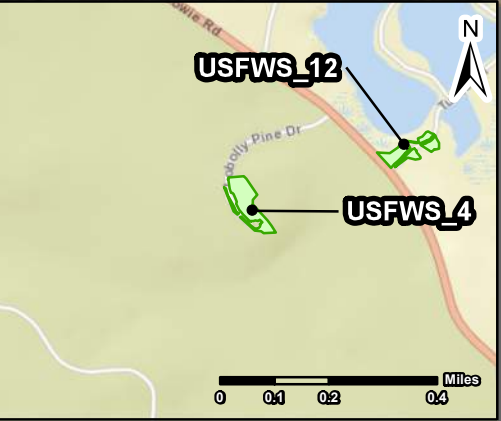
Map 3 of 13

JULY 2020

The block contains logos for Maryland State Routes 495 and 270, and a logo for the 'MANAGED LANES STUDY'.



**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREAPOLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW BASED ON POLYGONS RECEIVED FROM USFWS, AS WELL AS FIELD DATA FROM A SITE REVIEW WITH USFWS ON 3/11/2020. THE MLS NEPA TEAM CONDUCTED A FOLLOW UP FIELD REVIEW ON 7/1/2020 TO CONFIRM AND REFINE THE PLA NTING BOUNDARITES. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH USFWS. NO PLANTING IS PROPOSED WITHIN WETLANDS.



DEMOLITION WORK IS COMPLETE. USFWS WILL PREPARE THE SITE FOR FUTURE PLANTING.

DRIVEWAY TO REMAIN FOR HUNTER PARKING ACCESS.

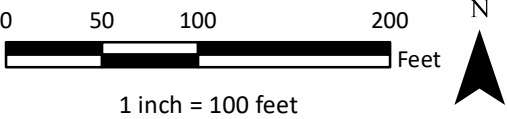
Patuxent  
Research  
Refuge

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**SITE ACCESS NOTE:**  
Access gate north of site. Paved access road into site off of Rt 197.

**LEGEND**

- |                         |                        |              |
|-------------------------|------------------------|--------------|
| Potential Planting Area | FEMA 100 Yr Floodplain | DNR Wetlands |
| Planting Conflict       | FEMA 500 Yr Floodplain | NWI Wetlands |
| NWI Waters              | DNR Waters             |              |



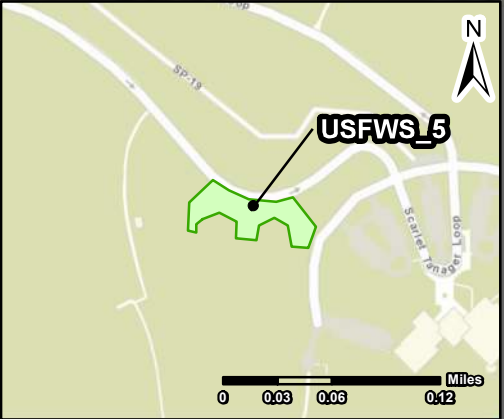
**Potential Reforestation Planting Opportunities at USFWS**  
**Patuxent Research Refuge**  
**USFWS\_4: South Tract Loblolly Drive Demolition Site**  
*HUC-6: 20600 Patuxent River Watershed*  
*Prince George's County*  
**Total Planting Acreage: 2.36**

Map 4 of 13

JULY 2020



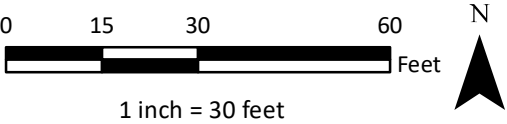
**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREAPOLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW BASED ON POLYGONS RECEIVED FROM USFWS, AS WELL AS FIELD DATA FROM A SITE REVIEW WITH USFWS ON 3/11/2020. THE MLS NEPA TEAM CONDUCTED A FOLLOW UP FIELD REVIEW ON 7/1/2020 TO CONFIRM AND REFINE THE PLA NTING BOUNDARITES. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH USFWS. NO PLANTING IS PROPOSED WITHIN WETLANDS.



**SITE ACCESS NOTE:**  
Accessible via visitors center.

**LEGEND**

- |                         |                        |              |
|-------------------------|------------------------|--------------|
| Potential Planting Area | FEMA 100 Yr Floodplain | DNR Wetlands |
| Planting Conflict       | FEMA 500 Yr Floodplain | NWI Wetlands |
| NWI Waters              | DNR Waters             |              |



**Potential Reforestation Planting Opportunities at USFWS**

**Patuxent Research Refuge**  
**USFWS\_5: South Tract North of TTP Site**  
*HUC-6: 20600 Patuxent River Watershed*  
*Prince George's County*  
**Total Planting Acreage: 0.76**

Map 5 of 13      JULY 2020





**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREAPOLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW BASED ON POLYGONS RECEIVED FROM USFWS, AS WELL AS FIELD DATA FROM A SITE REVIEW WITH USFWS ON 3/11/2020. THE MLS NEPA TEAM CONDUCTED A FOLLOW UP FIELD REVIEW ON 7/1/2020 TO CONFIRM AND REFINE THE PLA NTING BOUNDARITES. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH USFWS. NO PLANTING IS PROPOSED WITHIN WETLANDS.

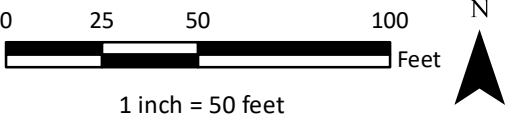


**SITE ACCESS NOTE:**  
Accessible via visitors center.

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- |                         |                        |              |
|-------------------------|------------------------|--------------|
| Potential Planting Area | FEMA 100 Yr Floodplain | DNR Wetlands |
| Planting Conflict       | FEMA 500 Yr Floodplain | NWI Wetlands |
| NWI Waters              | DNR Waters             |              |



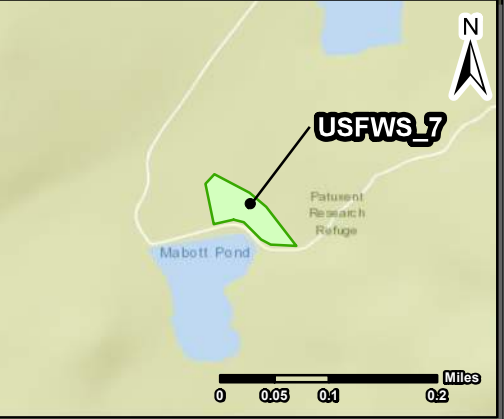
**Potential Reforestation Planting Opportunities at USFWS**  
**Patuxent Research Refuge**  
**USFWS\_6: South Tract 42h north of VC Site**  
*HUC-6: 20600 Patuxent River Watershed*  
*Prince George's County*  
**Total Planting Acreage: 1.53**

Map 6 of 13

JULY 2020



**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREAPOLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW BASED ON POLYGONS RECEIVED FROM USFWS, AS WELL AS FIELD DATA FROM A SITE REVIEW WITH USFWS ON 3/11/2020. THE MLS NEPA TEAM CONDUCTED A FOLLOW UP FIELD REVIEW ON 7/1/2020 TO CONFIRM AND REFINE THE PLANTING BOUNDARITES. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH USFWS. NO PLANTING IS PROPOSED WITHIN WETLANDS.

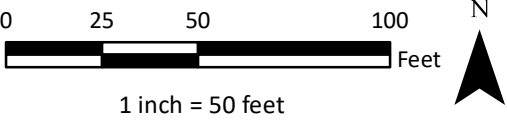


**SITE ACCESS NOTE:**  
Access from Tram Road.

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- |                         |                        |              |
|-------------------------|------------------------|--------------|
| Potential Planting Area | FEMA 100 Yr Floodplain | DNR Wetlands |
| Planting Conflict       | FEMA 500 Yr Floodplain | NWI Wetlands |
| NWI Waters              | DNR Waters             |              |



**Potential Reforestation Planting Opportunities at USFWS**

**Patuxent Research Refuge**  
**USFWS\_7: South Tract Mabbot Pond Field Site**  
*HUC-6: 20600 Patuxent River Watershed*  
*Prince George's County*  
**Total Planting Acreage: 1.48**

Map 7 of 13      JULY 2020





**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREAPOLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW BASED ON POLYGONS RECEIVED FROM USFWS, AS WELL AS FIELD DATA FROM A SITE REVIEW WITH USFWS ON 3/11/2020. THE MLS NEPA TEAM CONDUCTED A FOLLOW UP FIELD REVIEW ON 7/1/2020 TO CONFIRM AND REFINE THE PLA NTING BOUNDARITES. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH USFWS. NO PLANTING IS PROPOSED WITHIN WETLANDS.



**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

Potential Planting Area

FEMA 100 Yr Floodplain

DNR Wetlands

FEMA 500 Yr Floodplain

NWI Wetlands

NWI Waters

DNR Waters

012.52550

Feet

1 inch = 25 feet

N

**Potential Reforestation Planting Opportunities at USFWS**

**Patuxent Research Refuge**

**USFWS\_8: South Tract Harding Spring Pond Field Site**

*HUC-6: 20600 Patuxent River Watershed*

*Prince George's County*

**Total Planting Acreage: 0.59**

Map 8 of 13

JULY 2020

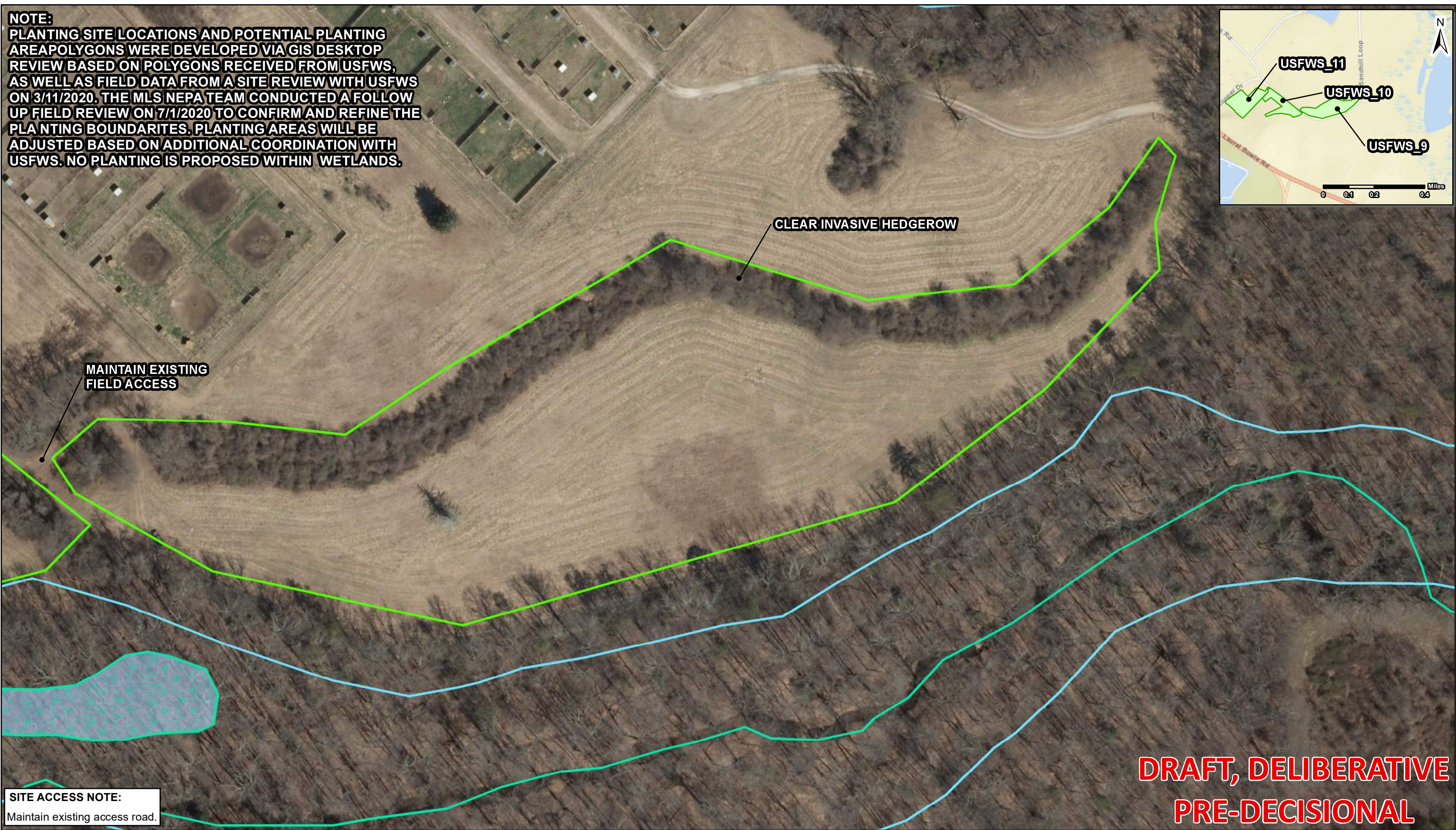
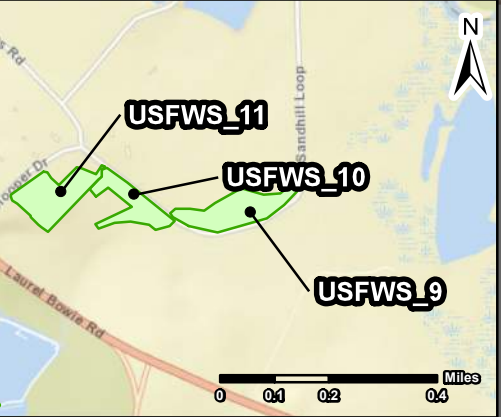
**MANAGED LANES STUDY**

DRAFT, DELIBERATIVE, PRE-DECISIONAL

Page 82 of 345











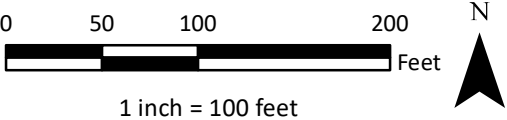
**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREAPOLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW BASED ON POLYGONS RECEIVED FROM USFWS, AS WELL AS FIELD DATA FROM A SITE REVIEW WITH USFWS ON 3/11/2020. THE MLS NEPA TEAM CONDUCTED A FOLLOW UP FIELD REVIEW ON 7/1/2020 TO CONFIRM AND REFINE THE PLANTING BOUNDARITES. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH USFWS. NO PLANTING IS PROPOSED WITHIN WETLANDS.



**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- |  |  |  |
|--|--|--|
|  Potential Planting Area |  FEMA 100 Yr Floodplain |  DNR Wetlands |
|  Planting Conflict       |  FEMA 500 Yr Floodplain |  NWI Wetlands |
|  NWI Waters              |  DNR Waters             |  |



**Potential Reforestation Planting Opportunities at USFWS  
Patuxent Research Refuge**  
**USFWS\_9: Central Tract Endangered Species Area - A Site**  
*HUC-6: 20600 Patuxent River Watershed  
Prince George's County*  
**Total Planting Acreage: 6.29**

Map 9 of 13

JULY 2020

**MANAGED  
LANES STUDY**



**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREAPOLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW BASED ON POLYGONS RECEIVED FROM USFWS, AS WELL AS FIELD DATA FROM A SITE REVIEW WITH USFWS ON 3/11/2020. THE MLS NEPA TEAM CONDUCTED A FOLLOW UP FIELD REVIEW ON 7/1/2020 TO CONFIRM AND REFINE THE PLANTING BOUNDARITES. PLANTING AREAS NEED TO BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH USFWS. NO PLANTING IS PROPOSED WITHIN WETLANDS.



**SITE ACCESS NOTE:**  
Maintain existing access road.

**LEGEND**

Potential Planting Area

Planting Conflict

NWJ Waters

FEMA 100 Yr Floodplain

FEMA 500 Yr Floodplain

DNR Waters

DNR Wetlands

NWI Wetlands

0

50

100

200

Feet

1 inch = 100 feet

N

**Potential Reforestation Planting Opportunities at USFWS**  
**Patuxent Research Refuge**  
**USFWS\_10: Central Tract Endangered Species Area - B Site**  
*HUC-6: 20600 Patuxent River Watershed*  
*Prince George's County*  
**Total Planting Acreage: 4.31**

Map 10 of 13

JULY 2020

495

270

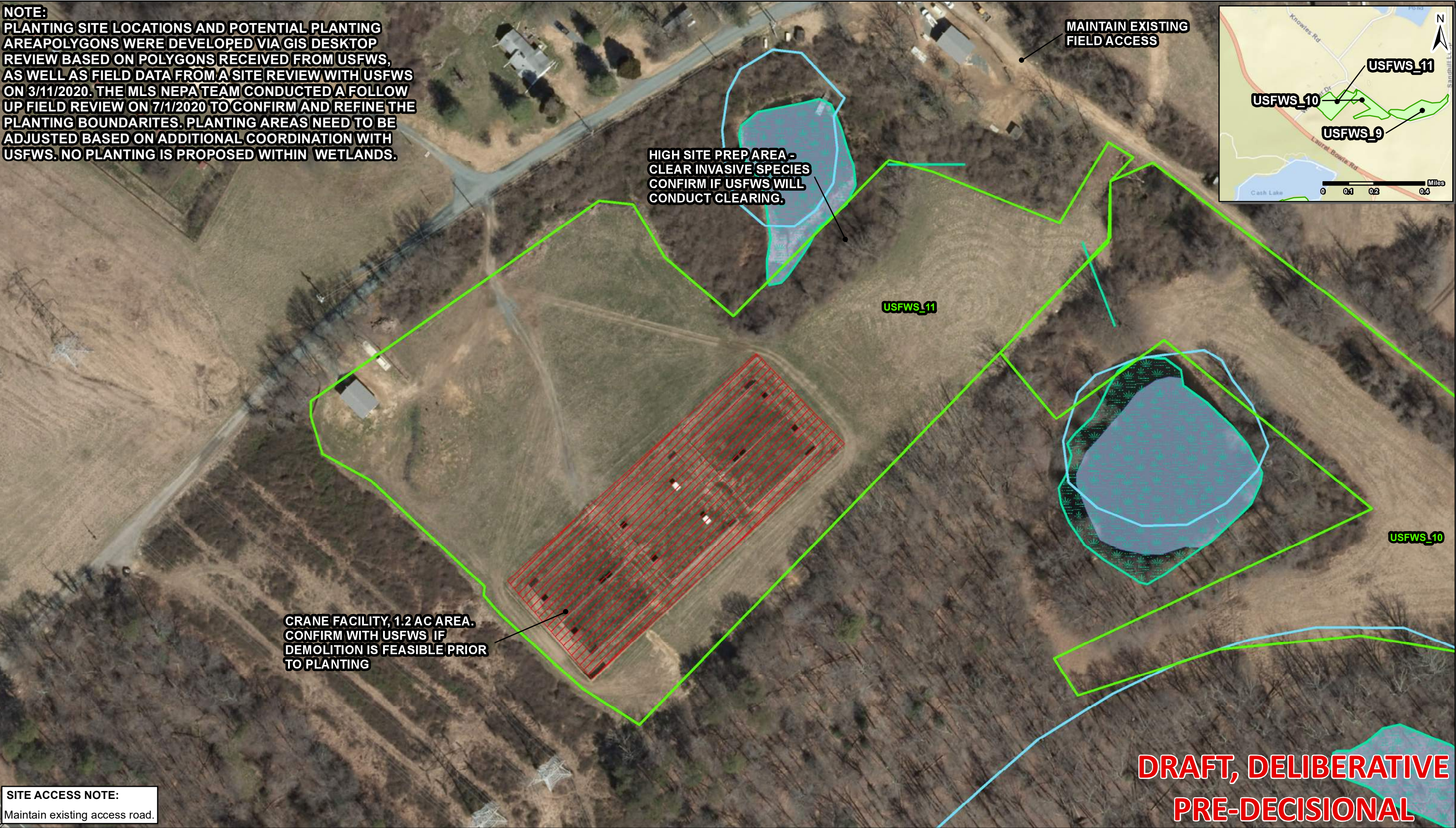
**MANAGED LANES STUDY**

DRAFT, DELIBERATIVE, PRE-DECISIONAL

Page 84 of 345



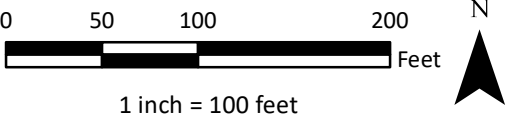
**NOTE:**  
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**SITE ACCESS NOTE:**  
Maintain existing access road.

**LEGEND**

- |                         |                        |              |
|-------------------------|------------------------|--------------|
| Potential Planting Area | FEMA 100 Yr Floodplain | DNR Wetlands |
| Planting Conflict       | FEMA 500 Yr Floodplain | NWI Wetlands |
| NWI Waters              | DNR Waters             |              |



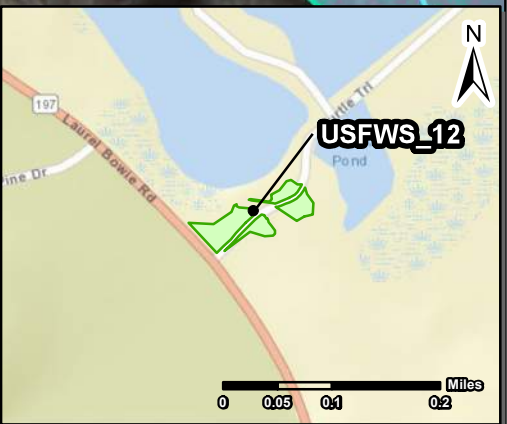
**Potential Reforestation Planting Opportunities at USFWS**  
**Patuxent Research Refuge**  
**USFWS\_11: Central Tract Endangered Species Area - C Site**  
*HUC-6: 20600 Patuxent River Watershed*  
*Prince George's County*  
**Total Planting Acreage: 6.24**

Map 11 of 13 JULY 2020

**MANAGED LANES STUDY**



**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREAPOLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW BASED ON POLYGONS RECEIVED FROM USFWS, AS WELL AS FIELD DATA FROM A SITE REVIEW WITH USFWS ON 3/11/2020. THE MLS NEPA TEAM CONDUCTED A FOLLOW UP FIELD REVIEW ON 7/1/2020 TO CONFIRM AND REFINE THE PLANTING BOUNDARITES. PLANTING AREAS NEED TO BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH USFWS. NO PLANTING IS PROPOSED WITHIN WETLANDS.



UTILITY LINE, 40 FT. CLEARANCE.

HOUSES WILL BE DEMOLISHED.  
USFWS WILL PREPARE THE SITE  
FOR FUTURE PLANTING.

ROAD TO REMAIN  
FOR USFWS ACCESS.

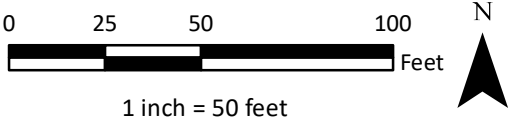
ROAD TO REMAIN  
FOR USFWS ACCESS.

**SITE ACCESS NOTE:**  
Easy access from Rt 197.

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- |                         |                        |              |
|-------------------------|------------------------|--------------|
| Potential Planting Area | FEMA 100 Yr Floodplain | DNR Wetlands |
| Planting Conflict       | FEMA 500 Yr Floodplain | NWI Wetlands |
| NWI Waters              | DNR Waters             |              |



**Potential Reforestation Planting Opportunities at USFWS**  
**Patuxent Research Refuge**  
**USFWS\_12: Central Quarters 64 and 65 Post Demolition Site**  
*HUC-6: 20600 Patuxent River Watershed*  
*Prince George's County*  
**Total Planting Acreage: 1.45**

Map 12 of 13

JULY 2020

The block contains logos for Maryland highways 495 and 270, and a logo for the 'MANAGED LANES STUDY'.



**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREAPOLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW BASED ON POLYGONS RECEIVED FROM USFWS, AS WELL AS FIELD DATA FROM A SITE REVIEW WITH USFWS ON 3/11/2020. THE MLS NEPA TEAM CONDUCTED A FOLLOW UP FIELD REVIEW ON 7/1/2020 TO CONFIRM AND REFINE THE PLANTING BOUNDARITES. PLANTING AREAS NEED TO BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH USFWS. NO PLANTING IS PROPOSED WITHIN WETLANDS.



DEMOLITION IS COMPLETE. USFWS WILL PREPARE THE SITE FOR FUTURE PLANTING.

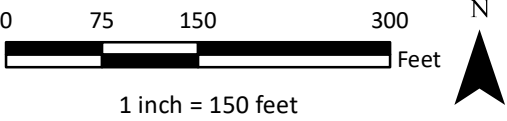
DRIVEWAY TO REMAIN FOR USFWS ACCESS.

**SITE ACCESS NOTE:**  
Need to keep gravel piles and access for USFWS.

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- |                         |                        |              |
|-------------------------|------------------------|--------------|
| Potential Planting Area | FEMA 100 Yr Floodplain | DNR Wetlands |
| Planting Conflict       | FEMA 500 Yr Floodplain | NWI Wetlands |
| NWI Waters              | DNR Waters             |              |



**Potential Reforestation Planting Opportunities at USFWS**  
**Patuxent Research Refuge**  
**USFWS\_13: North Tract Contractor Yard off Wildlife Loop Site**  
*HUC-6: 20600 Patuxent River Watershed*  
*Anne Arundel County*  
**Total Planting Acreage: 2.44**

Map 13 of 13

JULY 2020

The bottom right corner contains logos for Maryland highways 495 and 270, and a logo for the 'MANAGED LANES STUDY'.



**Anita Alexander**




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**From:** Marian Honeczy -DNR- <marian.honeczy@maryland.gov>  
**Sent:** Friday, April 19, 2019 8:19 AM  
**To:** Caryn Brookman  
**Cc:** Erron Ramsey; Eric Almquist; Karen Kahl; Joel Bush; Maddy Sigrist; Greg OHare; Justin Reel; gwendolyn.gibson; Tod Ericson -DNR-; Horace Henry -DNR-  
**Subject:** Re: MDOT SHA/DNR Forest Service Coordination Mtg

Thanks for meeting yesterday. To clarify my response to the question:

1) can mitigation banks be used? NRA 5-103 does allow the use of forest mitigation banks.

a) can FCA mitigation banks be used? FCA does not specifically exclude 5-103 projects from utilizing FCA mitigation banks. The 5-103 projects would need to use the same mitigation rates or ratios as FCA projects. Retention banks - 2 acres of bank for each 1 acre of required mitigation (2:1); planted banks- 1:1.

	<p>Marian Honeczy, AICP, CA          Supervisor Urban &amp; Community Forestry, MD Forest Service,          Department of Natural Resources          580 Taylor Ave E-1          Annapolis, MD 21401          410-260-8511 (office)  <a href="mailto:marian.honeczy@maryland.gov">marian.honeczy@maryland.gov</a></p>
  <a href="http://dnr.maryland.gov">dnr.maryland.gov</a>	

[Click here](#) to complete a three question customer experience survey.

On Fri, Mar 22, 2019 at 11:50 AM Caryn Brookman <[CBrookman@sha.state.md.us](mailto:CBrookman@sha.state.md.us)> wrote:

Topics for discussion will include study overview, potential impacts and proposed mitigation.






**Kate Gordon**

---

**From:** Marian Honeczy -DNR- <marian.honeczy@maryland.gov>  
**Sent:** Friday, June 26, 2020 1:19 PM  
**To:** Greg OHare  
**Cc:** Caryn Brookman; Chrissy Brandt; McNicholas, Pamela S. (Pam.McNicholas@wsp.com); Christopher Homeister -DNR-; Mary Owens -DNR-; Kate Gordon  
**Subject:** Re: Tree Canopy Replacement as MD Reforestation Law Mitigation

Greg, as previously discussed, since this is a design/build process, each contract will be submitting preliminary plans or construction plans for review and each contract will be conducting its own mitigation. The mitigation size will be the size as described in the preliminary plan submittal for each contract. The Reforestation Law requires forest mitigation for forest loss in the county of the construction (or contract in this case). The below idea does not appear to meet this requirement.

	<p>Marian Honeczy, AICP, CA          Supervisor Urban &amp; Community Forestry, MD Forest Service,          Department of Natural Resources          580 Taylor Ave E-1          Annapolis, MD 21401          410-260-8511 (office)  <a href="mailto:marian.honeczy@maryland.gov">marian.honeczy@maryland.gov</a></p>
  <a href="http://dnr.maryland.gov">dnr.maryland.gov</a>	

[Click here](#) to complete a three question customer experience survey.

On Mon, Jun 1, 2020 at 10:15 AM Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)> wrote:

Hi Marian,

We met with Laura Connelly from Prince George's County M-NCPPC late last week about potential mitigation opportunities in Prince George's County. She asked whether we could get credit under Reforestation Law for street tree and/or tree canopy replacement – i.e., planting trees in areas where the groundcover/understory will be maintained and that may not develop into areas that meet the definition of forest. She noted that Prince George's County has many urbanized areas that could use more tree canopy (including within county road rights-of-way), but does not have large open parcels that can be planted.

Please let us know if this is an option that could be considered for MD Reforestation Law mitigation for the MLS.

Thank you,



Greg

---

## **GREG O'HARE, LPF, PWS, CA**

Manager, Natural Resources



700 East Pratt Street, Suite 500

Baltimore, MD 21202

410.728.2900 P | 410.462.9165 D | 410.245.9015 C

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Larry Hogan, Governor  
 Boyd Rutherford, Lt. Governor  
 Jeannie Haddaway-Riccio, Secretary

September 16, 2020

Kate Gordon  
 Consultant Reviewer  
 Maryland Department of Transportation  
 State Highway Administration  
 I-495 & I-270 P3 Office  
 707 North Calvert St.  
 Mail Stop P-601  
 Baltimore, MD 21202

**RE: DNR Comments: I-270 & I-495 MLS Mitigation Plantings at Greenwell State Park PIF; 2020DNR204 (FMIS# AW073A11)**

Ms. Gordon:

Be advised that the Maryland Department of Natural Resources (DNR) Environmental Review Program (ERP) has completed the general review of the above referenced project located at Greenwell State Park in St. Mary's County, Maryland, which has been reviewed by DNR's team of interdisciplinary resources experts. Below are DNR's comments at this time. Additional materials and coordination is needed before this project is granted approval:

**DNR – Maryland Park Service (MPS) & DNR – Forest Service (FS):**

1. The PIF submitted for DNR Internal Review is missing valuable information. DNR requests additional information regarding the Maryland Department of Transportation (MDOT) State Highway Administration (SHA's) proposed site preparations, tree species, planting techniques, and maintenance practices.
2. The DNR recently enacted a new mitigation policy (*Attachment A*) for mitigation projects located on DNR Land. All proposed I-270 & I-495 Managed Lanes Study (MLS) mitigation planting sites will have to be properly vetted by the mitigation policy before any sites are granted approval. Please note Section IV.1 in DNR's mitigation policy:

*"All requests for the use of DNR lands for the purpose of mitigating environmental impacts from other State agencies will be considered, but will only be granted when such use would be in the best interest of the Land Management Unit's management and public use objectives. Furthermore, any requests that are inconsistent with the Department's natural resource management goals and objectives will be denied."*



3. A Comfort Station that has a septic tank and septic field is in close proximity to the proposed planting sites. It is recommended that MDOT SHA closely coordinate this project with the local Health Department regarding the exact location of utilities in the area. In general, tree plantings need to be set back from the existing septic fields, as well as from other areas identified as replacement septic fields. Usually, it is a 10,000 sq. ft. area that will be identified on plans as a "Sewage Reserve Area."
4. DNR-MPS is in the initial stages of planning a silvopasture project at Greenwell State Park. Greenwell State Park has a fair amount of existing fenced pasture. There is the potential to add more fencing, if needed. Planting trees around the silvopasture project site might be beneficial to providing some shade for the horses involved in the project. Continued coordination is needed with DNR-MPS as this silvopasture project continues to develop. Some proposed mitigation tree plantings sites may have to be removed from consideration as the silvopasture project boundaries become more defined.
5. The I-270 & I-495 MLS project is a MDOT SHA and a Public Private Partnership (P3) project. Who is the party responsible for the tree plantings and long term maintenance? Is it MDOT SHA or P3? What is the legal status of P3? What kind of agency does P3 identify as? Is P3 considered a state agency?
6. The DNR was notified by MDOT SHA on June 29, 2020 via email (*Attachment B*) that MDOT SHA may have to reduce their level of services at MDOT SHA tree planting sites on DNR Lands in response to COVID-19 budget cuts. This situation has made the DNR question the dependability of current and future maintenance agreements with MDOT SHA for tree planting projects on DNR land. Long term site maintenance is a critical component to the I-270 & I-495 MLS mitigation plantings. Discussions are needed between the DNR and MDOT SHA to generate a solution that secures long term maintenance for this project.

#### **DNR – Land Acquisition and Planning (LAP):**

1. Greenwall State Park has not received LWCF funding for acquisition or development projects. There are no concerns with this mitigation planting from an LWCF stewardship perspective.

#### **Maryland Historic Trust (MHT):**

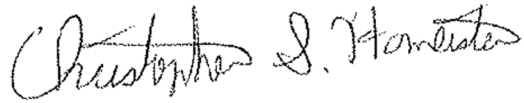
1. The Federal Highway Administration (FHWA) and MDOT SHA will be leading coordination with MHT regarding the Section 106 process for the I-495 & I-270 MLS project. The consultation between FHWA/MDOT SHA and MHT for the overall undertaking will include an analysis of all off-site mitigation. Therefore, MHT has no comments at this time.

In summary, additional review materials have been requested by the DNR. Please provide the DNR information regarding MDOT SHA's proposed site preparations, tree species, planting techniques, and maintenance practices. All proposed mitigation sites need to be vetted by the DNR's new mitigation policy prior to approval. Finally, discussions are needed between the DNR and MDOT SHA to discover a way to guarantee site maintenance funding is secure for the agreed upon maintenance period. Further review of this project and discussions with MDOT SHA are required before approval is granted. Please continue to keep an open dialogue with DNR. Please contact Chris Homeister at



[Christopher.Homeister@maryland.gov](mailto:Christopher.Homeister@maryland.gov) or by phone at 301-395-2306 if you have any questions or comments regarding this review.

Sincerely,

A handwritten signature in black ink that reads "Christopher S. Homeister". The signature is written in a cursive style with a large, stylized 'C' and 'H'.

Chris Homeister, Environmental Review Program

Cc: Mary Owens  
LeeAnne Chandler  
Dawn Letts  
Marian Honecзы  
Jack Perdue  
Andrew Mengel  
Beth Cole  
Tony Redman  
Martha Stauss

Attachment A: DNR Mitigation Policy  
Attachment B: SHA Reduced Level of Services Email



## Maryland Department of Natural Resources

**Subject:**                    **Requests and conditions for mitigation projects on DNR land**

**Policy Number:**

**Effective Date:**

**Approved:**

**Date:**

### **I. Purpose**

The purpose of this policy is to provide a framework for evaluating and approving mitigation projects proposed for Department of Natural Resources (DNR) land by non-DNR entities for regulated environmental impacts that occur outside of lands owned and managed by DNR. The goal of this policy is to ensure that any mitigation projects allowed on DNR land meet the Department's standards for ecological benefit and are consistent with the Land Management Unit's management and public use objectives.

### **II. Definition**

Environmental mitigation or compensatory mitigation are terms used to describe projects or programs intended to offset known regulated impacts to an existing natural resource such as a stream, wetland, or endangered species.

### **III. Scope**

This policy applies to all mitigation requests proposed to occur on DNR land except for those related to Forest Conservation Act mitigation or Reforestation Act mitigation banking.

### **IV. Policy**

It is the policy of the Department that the following represents the framework that will guide consideration of DNR lands for mitigating environmental impacts. If a proposed project could generate Total Maximum Daily Load credits, the project will be reserved for restoration at the discretion of the Department. Requests will be granted in the following scenarios only after the requesting party has provided sufficient proof to the Department that opportunities in the private sector have been adequately explored. Any requests for a mitigation project on DNR lands must be submitted to the Land Management Unit Internal Review point of contact with management responsibility for the property in question (see the annual "DNR Owned Lands Acreage" report to identify the appropriate unit).

#### **1. Requests from State Agencies**

All requests for the use of DNR lands for the purpose of mitigating environmental impacts from other State agencies will be considered, but will only be granted when such use would be in the best interest of the Land Management Unit's management



and public use objectives. Furthermore, any requests that are inconsistent with the Department's natural resource management goals and objectives will be denied.

2. Requests from Counties, Municipalities or other Local Governments  
Requests for impacts not occurring on DNR lands will not be considered.
3. Requests from the Private Sector  
Requests for impacts not occurring on DNR lands will not be considered.

#### **V. Procedures for evaluating requests**

1. The Land Management Unit will determine if there are any projects that could be satisfied by the proposed mitigation and are consistent with land and natural resource management goals and objectives of the Department. Based on the Land Management Unit's determination, the unit may deny the project or accept it for further review. If accepted, the project shall be subject to the Department's Internal Review Process.
2. If the Land Management Unit accepts the project, the requesting agency must adhere to the following criteria.
  - a. Requesting agency must show due diligence in exhausting all other options before submitting a formal mitigation request to the Department. This shall consist of, at a minimum:
    - i. documentation of alternatives analysis, avoidance and minimization.
    - ii. documentation of alternative landowner contact and refusal.
  - b. Project designs must achieve natural resource, aesthetic and public use outcomes as established by the Department for the specific project.

#### **VI. Conditions for implementation**

1. Project designs must be approved by the Department before submitting a permit application(s) to the regulatory agency and, additionally, prior to construction.
2. Subsequent design modifications must also be approved by the Department during all phases of planning and construction.
3. The Department will conduct a final site inspection to ensure the project is completed in accordance with approved drawing and specifications and meets the Department's management goals. This will be documented via correspondence from the Department to the project sponsor.
4. The project sponsor will bear responsibility for project maintenance requirements and guarantees according to the terms of the permit and in coordination with the Land Management Unit and other DNR staff for a minimum period of five (5) years following construction.





Christopher Homeister -DNR- &lt;christopher.homeister@maryland.gov&gt;

---

## Reduced Level of Service for DNR MPS - MDOT SHA Partnership Sites

---

**Karen Coffman** <KCoffman@mdot.maryland.gov>

Mon, Jun 29, 2020 at 8:59 PM

To: LeeAnne Chandler -DNR- &lt;leeanne.chandler@maryland.gov&gt;, Christopher Homeister &lt;christopher.homeister@maryland.gov&gt;

Cc: Ryan Cole &lt;RCole@mdot.maryland.gov&gt;, Kevin Wilsey &lt;KWilsey@mdot.maryland.gov&gt;

Hello LeeAnne and Christopher,

I apologize for not getting back to you sooner. As we have moved through FY20 towards FY21, it has become apparent that the State budget shortfall due to COVID-19 response efforts and reduced transportation related revenues due to sheltering-in-place orders has had a significant impact on MDOT SHA budgets for the next two years. In preparing for the coming years, MDOT SHA has eliminated all State funded spending where possible, and we anticipate this to impact our ability to meet commitments to our partners during this time. The impacts to the MDOT SHA - DNR MPS partnerships are indicated below.

The last year or so, MDOT SHA Office of Environmental Design has been working to establish a comprehensive adaptive management program that would address our many off-site restoration, mitigation, and environmental banking commitments using a variety of contracting mechanisms and both federal and State funding sources. Unfortunately, before we could implement new methods for managing these assets, the COVID-19 crisis has interrupted this program development indefinitely. However, in order to address your immediate concerns, we will investigate the possibility of issuing a federally funded small procurement contract. This will take a few weeks to resolve.

Another partnership area impacted by the budget shortfalls are reimbursements and land use payments identified in various executed PTAs. These will be deferred until we can program the funds which will likely be a few years down the road. Sonal Ram spoke to Matt Flemming related to this deferment.

Lastly, concerning finalizing our agreements/PTAs as site construction is completed, our MS4 permit expires October 8, 2020, and we may not have the financial resources in place to develop and execute final PTAs for our joint partnership restoration projects before that time. Regardless of this, MDOT SHA will claim the credits associated with these projects in order to close out MDOT SHA restoration compliance with the October 2020 MS4 Annual Report and will seek to finalize the PTAs at the first opportunity. We also see the need to renegotiate the tree establishment agreement as there are sites that both parties would like to exclude, and MDOT SHA would like to revisit the vegetation management expectations as our adaptive management program is developed.

We appreciate your understanding of the current budget constraints and look forward to continuing the discussion.

Karen

*Karen Coffman*

Chief, Water Programs Division

Office of Environmental Design

MDOT State Highway Administration

410-456-3317 (Mobile)



[kcoffman@mdot.maryland.gov](mailto:kcoffman@mdot.maryland.gov)

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Larry Hogan  
Governor  
Boyd K. Rutherford  
Lt. Governor  
Gregory Slater  
Secretary  
Tim Smith, P.E.  
Administrator

September 21, 2020

Ms. Marian Honeczy  
Supervisor Urban & Community Forestry  
Maryland Forest Service  
Department of Natural Resources  
580 Taylor Ave., E-1  
Annapolis MD 21401

Dear Ms. Honeczy:

As you are aware, the Maryland Department of Transportation State Highway Administration (MDOT SHA) has been conducting a site search to identify potential reforestation opportunities on public lands to mitigate for unavoidable impacts to forest associated with the construction of the improvements proposed as part of the I-495 and I-270 Managed Lanes Study (MLS). This off-site mitigation site search has been conducted in accordance with the requirements of the Maryland Reforestation Law (MD Natural Resources Code § 5-103).

As part of the site search, MDOT SHA contacted public landowners with property in the counties affected by the MLS (Montgomery and Prince George's counties) and/or within the affected MDE 6-digit watersheds (021402 - Metropolitan Washington and 021311 - Patuxent) to determine whether they have any land available for reforestation mitigation. The majority of the public landowners contacted to-date did not have suitable reforestation opportunities available.

In addition to public partner outreach, MDOT SHA has reviewed MDOT and Maryland Department of Planning (MDP) excess lands to identify potential off-site reforestation and forest retention opportunities. The off-site forest mitigation opportunities that have been identified along with available credits in forest conservation banks may not be able to fully meet the anticipated MLS mitigation requirement, even after forest impact avoidance and minimization efforts and identification of on-site mitigation opportunities during design.

As part of the site search, MDOT SHA coordinated with Maryland Department of Natural Resources (MDNR) Park Service staff to identify potential planting opportunities that would be consistent with MDNR land management goals and meet the mitigation requirements of the Maryland Reforestation Law. During this coordination, MDNR Park Service staff proposed planting sites at Newtowne Neck State Park, which is not located in one of the affected watersheds but within the adjacent Lower Potomac River Watershed (021404).

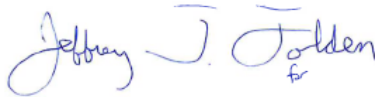


Ms. Marian Honeczy  
Page Two

MDOT SHA is requesting a variance to allow planting of the proposed reforestation sites within Newtowne Neck State Park for MLS Reforestation Law mitigation. The proposed planting includes a total of approximately 77 acres. Adding the proposed plantings at Newtowne Neck State Park to the MLS mitigation package would significantly reduce the anticipated credit deficit and potential need to pay into the Reforestation Fund to fully comply with the requirements of the Maryland Reforestation Law, since the mitigation available on-site, off-site within the affected counties or watersheds, and at approved forest conservation mitigation banks in the affected watersheds is not expected to fully meet the mitigation requirement for this MLS. The proposed planting areas at Newtowne Neck State Park support the goals of the MDNR Park Service and provide significant ecological value with the expansion of wooded buffers within the Chesapeake Bay Critical Area.

Please contact Ms. Caryn Brookman, Environmental Program Manager for the I-495 & I-270 Managed Lanes Study, directly if you have any questions about this variance request. Ms. Brookman can be reached at [cbrookman@mdot.maryland.gov](mailto:cbrookman@mdot.maryland.gov) or 410-637-3335.

Sincerely,



Lisa B. Choplin, DBIA  
Director, I-495 and I-270 P3 Office

cc: Ms. Mary Owens, Maryland Department of Natural Resources  
Ms. Caryn J. G. Brookman, Environmental Program Manager, I-495 and I-270 P3 Office, MDOT SHA  
Jeffrey T. Folden, P.E., DBIA, Deputy Director, I-495 and I-270 P3 Office, MDOT SHA  
Mr. Bob Maimone, I-495 and I-270 P3 Office, MDOT SHA  
Ms. Kate Gordon, I-495 and I-270 P3 Office, MDOT SHA  
Mr. Greg O'Hare, I-495 and I-270 P3 Office, MDOT SHA  
Ms. Erron Ramsey, I-495 and I-270 P3 Office, MDOT SHA





## I-495 & I-270 Managed Lanes Study

### Potential Reforestation Mitigation Site Opportunities at Newtowne Neck & Greenwell State Park

June 9, 2020 @ 10:00am

A field review meeting was conducted on June 9, 2020 with Maryland Department of Natural Resources (DNR) to discuss potential planting opportunities for reforestation mitigation credits needed for the I-495 & I-270 Managed Lanes Study (MLS). A summary of the topics discussed at the meeting follows.

#### Introductions

Participants met at Newtowne Neck State Park. The meeting began with introductions, followed by a brief summary of the reforestation mitigation needs for this project. Dawn Letts, Point Lookout State Park Complex Park Manager, provided an overview of the Newtowne Neck State Park sites located within the Lower Potomac River Watershed in St. Mary's County, along the Potomac River in Leonardtown, MD. Newtowne Neck State Park has 19 agricultural fields totaling 330 acres that are leased to local farmers, three designated sunflower fields, and four areas designated as hedgerows, as shown on the attached agriculture map provided by Chris Homeister (DNR) on May 5, 2020. The group discussed potential reforestation planting within portions of the leased agricultural fields to expand existing buffers, and reviewed potential planting opportunities in two of the sunflower fields and the southernmost agricultural field. The field meeting continued at Greenwell State Park located within the Patuxent River Watershed in St. Mary's County, along the Patuxent River in Hollywood, MD. The group discussed and reviewed planting opportunities in two agricultural fields. The meeting ended with a discussion of action items for both park sites.

#### General Comments

- DNR requested native shrub planting in addition to tree planting, to ensure the establishment of an understory for improved forest structure. Dawn prefers northern red and white oak tree plantings, and does not want American sycamore or London planetrees planted at either park.
- DNR will require MDOT SHA to provide at least 5 years of maintenance to ensure success of the planting sites.
- DNR prefers to have plant establishment occur by MLS construction contract to allow DNR an opportunity to evaluate the success of the planting effort and request adjustments to planting practices as needed. Timing of planting will be dictated by the project schedule and DNR requirements for compliance with Maryland Reforestation Law.

#### Planting Opportunities at Newtowne Neck State Park

- Dawn indicated that a significant portion of the leased agricultural fields are available for reforestation planting, since DNR wants to expand the existing wooded Chesapeake Bay Critical Area buffer on either side of the park along the Potomac River.
- Potential planting buffers were determined using existing treelines and/or the outer edge of the agriculture field boundaries shown on the mapping provided by Chris Homeister.
- Two of the three sunflower fields (DNR-26 and DNR-27 on attached mapping) as well as DNR-31 and DNR-32, have a 150 ft. buffer available for planting along the waterside edge of the field boundary. The third sunflower field northwest of DNR-26 is reserved for future development.
- DNR-30 was expanded to cover the entire agriculture field boundary and additional areas west and east of the existing agriculture boundary.
- DNR-28, DNR-25, DNR-37, and DNR-38 have a 200 ft. buffer available for planting along the water.
- In the southernmost agricultural fields along the Potomac River, DNR requested use of the existing tree





line adjacent to DNR-40 to set the width of the buffers, resulting in a total buffer width of 250 feet for DNR-39 and 280 feet for DNR-40 from existing treeline to water edge. An invasive stand of mimosa trees, honeysuckle, and other non-native invasive species borders the edge of DNR-39 and DNR-40, with Phragmites dominating the area along the Potomac River. DNR requested that the MLS project conduct selective clearing of the invasive species in these areas while preserving as many existing native trees as possible.

- DNR-41 has a 125 ft. buffer available for planting along the waterside edge of the field boundary.
- Most of the planting areas within the agricultural and sunflower fields are easily accessible from existing grass and paved access roads, which should be maintained. Access for planting will need to be coordinated with park staff.
- Water access onsite is limited, water trucks will be needed during plant installation.
- On July 21, 2020, Dawn provided feedback on a draft site map of the potential planting opportunities at Newtowne Neck State Park. She requested that the MLS team drop the following sites: DNR-29, DNR-33, DNR-34, and DNR-36. Dawn also indicated that an 8-acre field (identified as DNR-42 on the attached mapping) removed from the agricultural lease rotation is available for reforestation planting. DNR will continue to maintain the field to control invasives until the site is planted.
- The potential planting acreage at Newtowne Neck State Park totals 77 acres.

### Planting Opportunities at the Greenwell State Park

- Two agricultural fields identified by DNR are available for planting.
- Do not plant within 12 ft. grass access path between the agricultural fields that provides access to a waterside trail along the Patuxent River.
- Do not plant within pollinator meadow area between parking lot and first agricultural field. See DNR-24 on the attached mapping.
- The plantable area within the second agricultural field was expanded to the south, to the edge of the existing access road. See DNR-25 on the attached mapping.
- Planting areas are easily accessible off of existing 20 ft. access road and 12 ft. grass access path, which should remain unplanted. Access for planting will need to be coordinated with park staff.
- Potential planting acreage at Greenwell State Park totals 7.65 AC.

### Follow-Up Questions & Action Items

- Are designated hedgerow areas at Newtowne Neck State Park available for reforestation planting?
  - *Dawn confirmed during a phone conversation on 7/21/20 that the hedgerow areas would not be suitable areas for reforestation planting due to height and width restrictions.*
- The MLS team will develop preliminary mapping that shows potential planting areas, access notes, and general site notes for DNR to review and approve before submitting the PIF request for each park.
  - *Draft mapping was provided for DNR review on 7/1/20. Comments were received from Dawn during a phone conversation on 7/21/20.*
- Since the proposed planting areas are outside of the MLS affected counties and watersheds, DNR-Forest Service will need to approve a variance request to allow the planting at Newtowne Neck State Park as mitigation for the I-495 & I-270 MLS.



**Attendees:**

Name	Agency	Email
Dawn Letts	Maryland Department of Natural Resources	<a href="mailto:dawn.letts@maryland.gov">dawn.letts@maryland.gov</a>
Mary Owens	Maryland Department of Natural Resources	<a href="mailto:mary.owen@maryland.gov">mary.owen@maryland.gov</a>
Kate Gordon	MDOT SHA/RK&K	<a href="mailto:kgordon@rkk.com">kgordon@rkk.com</a>
Anita Alexander	MDOT SHA/RK&K	<a href="mailto:aalexander@rkk.com">aalexander@rkk.com</a>



Map of Newtowne Neck State Park provided by DNR on 5/5/20

## Newtowne Neck Agriculture Map





**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREA POLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW AND A FIELD REVIEW CONDUCTED WITH DNR ON JUNE 9, 2020. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH DNR AND FIELD REVIEWS. NO PLANTING IS PROPOSED WITHIN DELINEATED WETLANDS.



**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- |                            |       |                           |
|----------------------------|-------|---------------------------|
| DNR Parcels                | Drop  | Agricultural Fields       |
| Previous Planting Boundary | Keep  | Hedgerow                  |
| Invasive Treatment Area    | Maybe | Proposed Sunflower Fields |



**TOTAL PROPOSED  
PLANTING ACREAGE: 77 AC**

0 650 1,300 2,600  
Feet

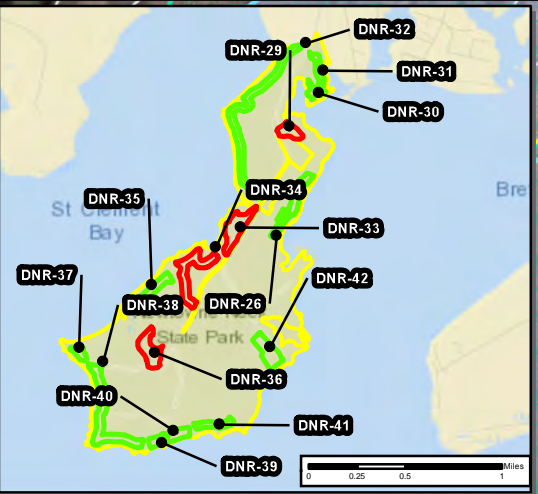
1 inch = 1,300 feet

Potential Reforestation Planting Opportunities  
on DNR Properties  
**NEWTOWNE NECK STATE PARK KEY MAP**  
**SEPTEMBER 2020**





**NOTE:**  
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**LEGEND**  
Planting Area - Site Status

Drop

Keep

Maybe

DNR Parcels

Invasive Treatment Area

NWI Waters

DNR Waters

DNR Wetlands

NWI Wetlands

FEMA 100 Yr Floodplain

FEMA 500 Yr Floodplain

SSURGO Soils

2 ft. Contours

N

012.52550

Feet

1 inch = 50 feet

Potential Reforestation Planting Opportunities  
on DNR Properties

DNR-26: Newtowne Neck State Park

MDE 6 Digit Watershed: 021404 Lower Potomac River Watershed

Total Planting Acreage: 1.47

Map 1 of 13

SEPTEMBER 2020

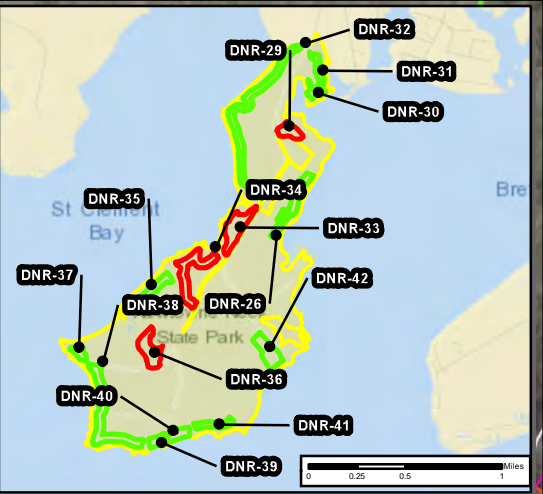
495

270

MANAGED LANES STUDY



**NOTE:**  
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**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

Planting Area - Site Status

- Drop
- Keep
- Maybe

DNR Parcels

-

Invasive Treatment Area

-

NWI Waters

-

DNR Waters

-

DNR Wetlands

-

NWI Wetlands

-

FEMA 100 Yr Floodplain

-

FEMA 500 Yr Floodplain

-

SSURGO Soils

-

2 ft. Contours

-

N

0 12.5 25 50 Feet

1 inch = 50 feet

**Potential Reforestation Planting Opportunities  
on DNR Properties**

**DNR-27: Newtowne Neck State Park**

MDE 6 Digit Watershed: 021404 Lower Potomac River Watershed

**Total Planting Acreage: 1.56**

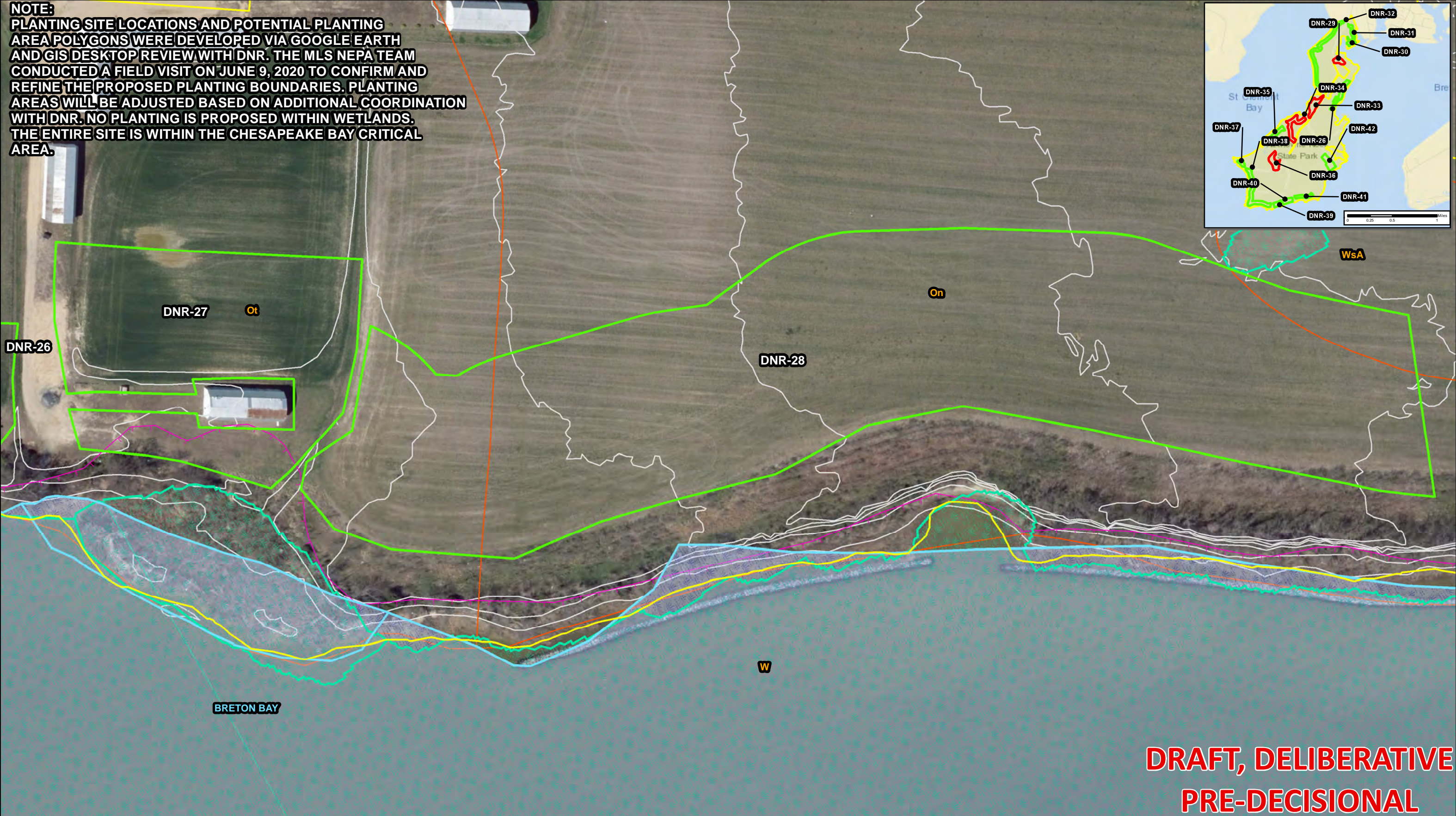
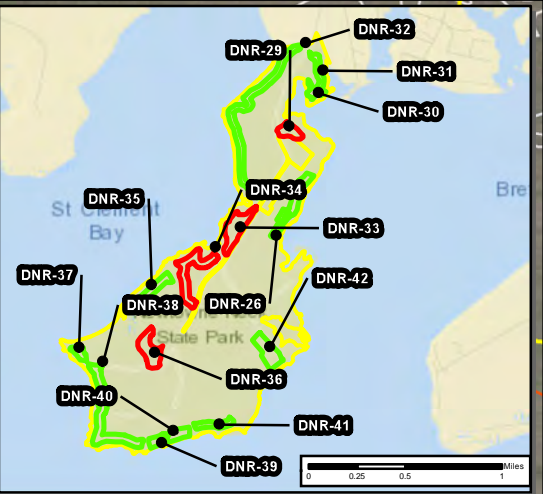
Map 2 of 13

SEPTEMBER 2020

**MANAGED  
LANES STUDY**



**NOTE:**  
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**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

Planting Area - Site Status

- Drop
- Keep
- Maybe

DNR Parcels

- Invasive Treatment Area
- NWI Waters
- DNR Waters

DNR Wetlands

- NWI Wetlands
- FEMA 100 Yr Floodplain
- FEMA 500 Yr Floodplain

SSURGO Soils

- 2 ft. Contours

0 25 50 100 Feet

1 inch = 100 feet

**Potential Reforestation Planting Opportunities  
on DNR Properties**

**DNR-28: Newtowne Neck State Park**

MDE 6 Digit Watershed: 021404 Lower Potomac River Watershed

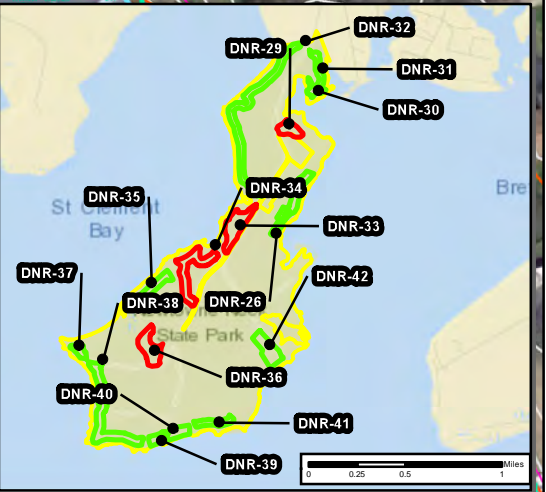
**Total Planting Acreage: 6.11**

Map 3 of 13

SEPTEMBER 2020



**NOTE:**  
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**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

Planting Area - Site Status

- Drop
- Keep
- Maybe

DNR Parcels

- Invasive Treatment Area
- NWI Waters
- DNR Waters

DNR Wetlands

- NWI Wetlands
- FEMA 100 Yr Floodplain
- FEMA 500 Yr Floodplain

SSURGO Soils

- 2 ft. Contours

0 25 50 100 Feet

1 inch = 100 feet

N

**Potential Reforestation Planting Opportunities  
on DNR Properties**

DNR-30: Newtowne Neck State Park

MDE 6 Digit Watershed: 021404 Lower Potomac River Watershed

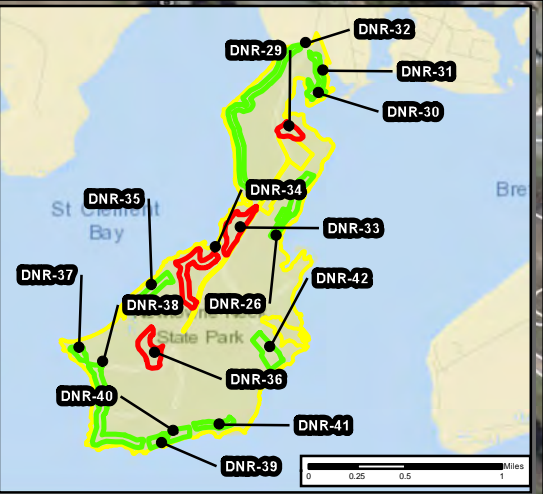
**Total Planting Acreage: 2.16**

Map 4 of 13

SEPTEMBER 2020



**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREA POLYGONS WERE DEVELOPED VIA GOOGLE EARTH AND GIS DESKTOP REVIEW WITH DNR. THE MLS NEPA TEAM CONDUCTED A FIELD VISIT ON JUNE 9, 2020 TO CONFIRM AND REFINE THE PROPOSED PLANTING BOUNDARIES. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH DNR. NO PLANTING IS PROPOSED WITHIN WETLANDS. THE ENTIRE SITE IS WITHIN THE CHESAPEAKE BAY CRITICAL AREA.



**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

Planting Area - Site Status

- Drop
- Keep
- Maybe

DNR Parcels

- Invasive Treatment Area
- NWI Waters
- DNR Waters

DNR Wetlands

- NWI Wetlands
- FEMA 100 Yr Floodplain
- FEMA 500 Yr Floodplain

SSURGO Soils

- 2 ft. Contours

0 37.5 75 150 Feet

1 inch = 150 feet

N

**Potential Reforestation Planting Opportunities  
on DNR Properties**

DNR-31: Newtowne Neck State Park

MDE 6 Digit Watershed: 021404 Lower Potomac River Watershed

**Total Planting Acreage: 3.81**

Map 5 of 13

SEPTEMBER 2020



NOTE:

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**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

Planting Area - Site Status

- Drop
- Keep
- Maybe

DNR Parcels

- Invasive Treatment Area
- NWI Waters
- DNR Waters

DNR Wetlands

- NWI Wetlands
- FEMA 100 Yr Floodplain
- FEMA 500 Yr Floodplain

SSURGO Soils

- 2 ft. Contours

0 75 150 300 Feet

1 inch = 300 feet

**Potential Reforestation Planting Opportunities  
on DNR Properties**

**DNR-32: Newtowne Neck State Park**

MDE 6 Digit Watershed: 021404 Lower Potomac River Watershed

**Total Planting Acreage: 19.6**

Map 6 of 13

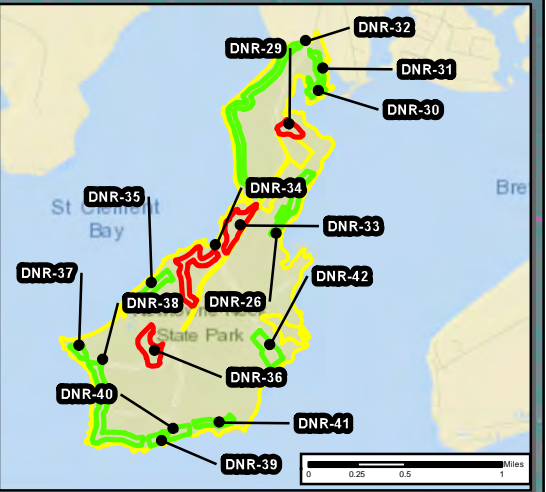
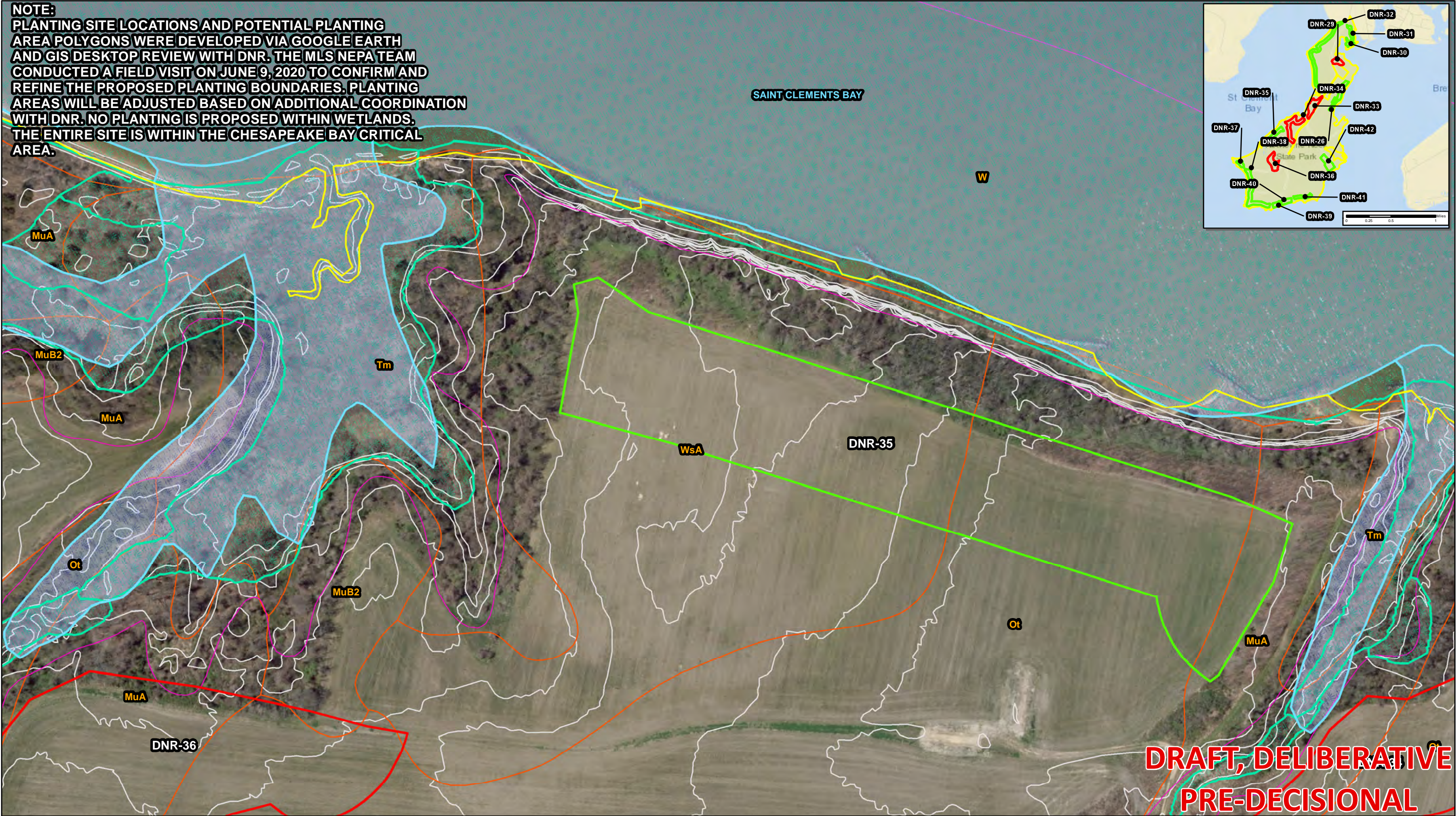
SEPTEMBER 2020

**495 270**

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LANES STUDY**

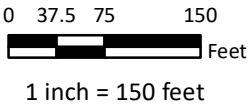


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**LEGEND**

Planting Area - Site Status	DNR Parcels	DNR Wetlands	SSURGO Soils
Drop	Invasive Treatment Area	NWI Wetlands	2 ft. Contours
Keep	NWI Waters	FEMA 100 Yr Floodplain	
Maybe	DNR Waters	FEMA 500 Yr Floodplain	



**Potential Reforestation Planting Opportunities  
on DNR Properties**

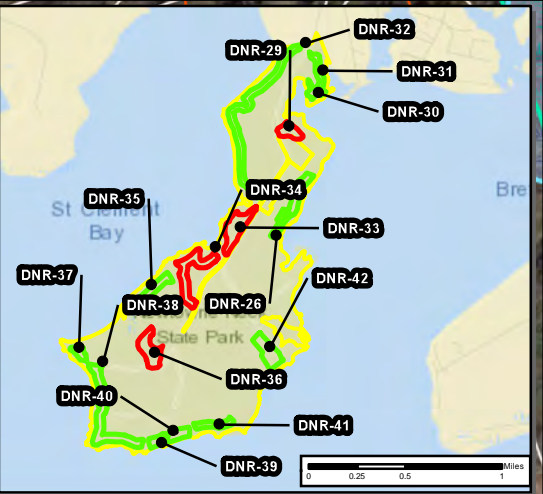
DNR-35: Newtowne Neck State Park  
MDE 6 Digit Watershed: 021404 Lower Potomac River Watershed  
**Total Planting Acreage: 6.04**

Map 7 of 13 SEPTEMBER 2020





**NOTE:**  
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**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

Planting Area - Site Status

- Drop
- Keep
- Maybe

DNR Parcels

-

Invasive Treatment Area

-

NWI Waters

-

DNR Waters

-

DNR Wetlands

-

NWI Wetlands

-

FEMA 100 Yr Floodplain

-

FEMA 500 Yr Floodplain

-

SSURGO Soils

-

2 ft. Contours

-

N

0 25 50 100 Feet

1 inch = 100 feet

**Potential Reforestation Planting Opportunities  
on DNR Properties**

**DNR-37: Newtowne Neck State Park**

MDE 6 Digit Watershed: 021404 Lower Potomac River Watershed

**Total Planting Acreage: 2.32**

Map 8 of 13

SEPTEMBER 2020

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LANES STUDY**



**NOTE:**  
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**LEGEND**

Planting Area - Site Status

- Drop
- Keep
- Maybe

DNR Parcels

- Invasive Treatment Area
- NWI Waters
- DNR Waters

DNR Wetlands

- NWI Wetlands
- FEMA 100 Yr Floodplain
- FEMA 500 Yr Floodplain

SSURGO Soils

- 2 ft. Contours

0 75 150 300 Feet

1 inch = 300 feet

Potential Reforestation Planting Opportunities on DNR Properties

DNR-38: Newtowne Neck State Park

MDE 6 Digit Watershed: 021404 Lower Potomac River Watershed

Total Planting Acreage: 16.28

Map 9 of 13

SEPTEMBER 2020

495 270

MANAGED LANES STUDY



**NOTE:**  
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**LEGEND**

Planting Area - Site Status

- Drop
- Keep
- Maybe

DNR Parcels

- Invasive Treatment Area
- NWI Waters
- DNR Waters

DNR Wetlands

- NWI Wetlands
- FEMA 100 Yr Floodplain
- FEMA 500 Yr Floodplain

SSURGO Soils

- 2 ft. Contours

0 25 50 100 Feet

1 inch = 100 feet

Potential Reforestation Planting Opportunities  
on DNR Properties

DNR-39: Newtowne Neck State Park

MDE 6 Digit Watershed: 021404 Lower Potomac River Watershed

**Total Planting Acreage: 2.48**

Map 10 of 13

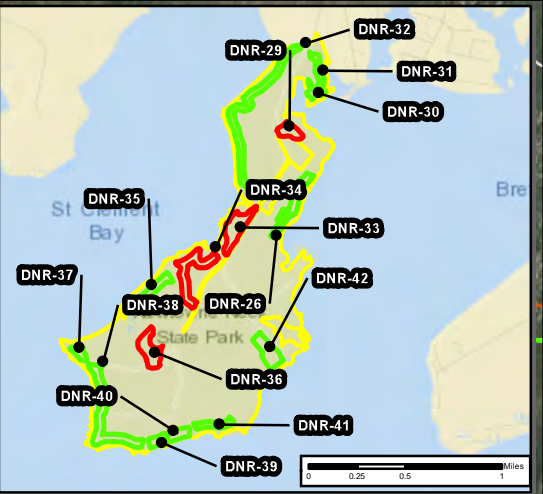
SEPTEMBER 2020

495 270

MANAGED LANES STUDY



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**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

Planting Area - Site Status

- Drop
- Keep
- Maybe

DNR Parcels

- Invasive Treatment Area
- NWI Waters
- DNR Waters

DNR Wetlands

- NWI Wetlands
- FEMA 100 Yr Floodplain
- FEMA 500 Yr Floodplain

SSURGO Soils

- 2 ft. Contours

0 25 50 100 Feet

1 inch = 100 feet

N

**Potential Reforestation Planting Opportunities  
on DNR Properties**

DNR-40: Newtowne Neck State Park

MDE 6 Digit Watershed: 021404 Lower Potomac River Watershed

**Total Planting Acreage: 3.78**

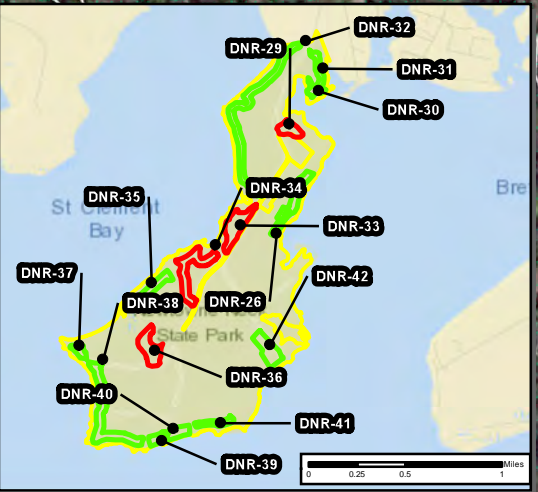
Map 11 of 13

SEPTEMBER 2020

**MANAGED LANES STUDY**



**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREA POLYGONS WERE DEVELOPED VIA GOOGLE EARTH AND GIS DESKTOP REVIEW WITH DNR. THE MLS NEPA TEAM CONDUCTED A FIELD VISIT ON JUNE 9, 2020 TO CONFIRM AND REFINE THE PROPOSED PLANTING BOUNDARIES. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH DNR. NO PLANTING IS PROPOSED WITHIN WETLANDS. THE ENTIRE SITE IS WITHIN THE CHESAPEAKE BAY CRITICAL AREA.



**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

Planting Area - Site Status

- Drop
- Keep
- Maybe

DNR Parcels

- Invasive Treatment Area
- NWI Waters
- DNR Waters

DNR Wetlands

- NWI Wetlands
- FEMA 100 Yr Floodplain
- FEMA 500 Yr Floodplain

SSURGO Soils

2 ft. Contours

N



0 25 50 100 Feet  
1 inch = 100 feet

**Potential Reforestation Planting Opportunities  
on DNR Properties**

**DNR-41: Newtowne Neck State Park**

MDE 6 Digit Watershed: 021404 Lower Potomac River Watershed

**Total Planting Acreage: 3.17**

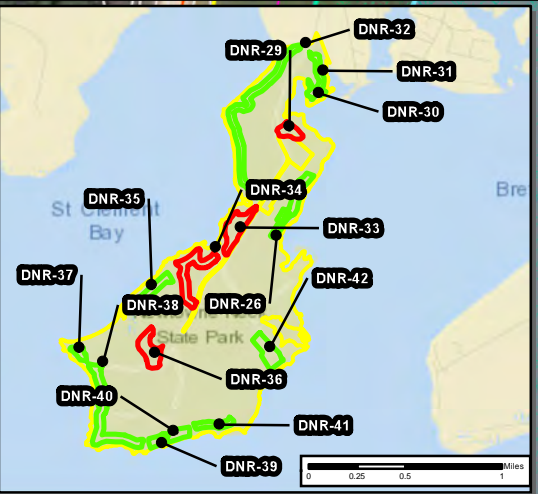
Map 12 of 13

SEPTEMBER 2020





**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREA POLYGONS WERE DEVELOPED VIA GOOGLE EARTH AND GIS DESKTOP REVIEW WITH DNR. THE MLS NEPA TEAM CONDUCTED A FIELD VISIT ON JUNE 9, 2020 TO CONFIRM AND REFINE THE PROPOSED PLANTING BOUNDARIES. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH DNR. NO PLANTING IS PROPOSED WITHIN WETLANDS. THE ENTIRE SITE IS WITHIN THE CHESAPEAKE BAY CRITICAL AREA.



**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

Planting Area - Site Status

- Drop
- Keep
- Maybe

DNR Parcels

-

Invasive Treatment Area

-

NWI Waters

-

DNR Waters

-

DNR Wetlands

-

NWI Wetlands

-

FEMA 100 Yr Floodplain

-

FEMA 500 Yr Floodplain

-

SSURGO Soils

-

2 ft. Contours

-

North Arrow

Scale Bar

0 25 50 100 Feet

1 inch = 100 feet

**Potential Reforestation Planting Opportunities  
on DNR Properties**

**DNR-42: Newtowne Neck State Park**

MDE 6 Digit Watershed: 021404 Lower Potomac River Watershed

**Total Planting Acreage: 8.22**

Map 13 of 13

SEPTEMBER 2020

**MANAGED  
LANES STUDY**



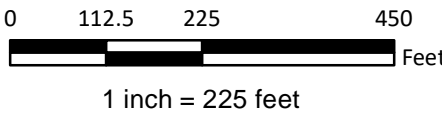
**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREA POLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW WITH DNR. THE MLS NEPA TEAM CONDUCTED A FIELD VISIT ON JUNE 9, 2020 TO CONFIRM AND REFINE THE PROPOSED PLANTING BOUNDARIES. PLANTING AREAS NEED TO BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH DNR. NO PLANTING IS PROPOSED WITHIN WETLANDS.



**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- DNR Planting Areas
- DNR Parcels
- Site Access



**TOTAL PROPOSED  
PLANTING ACREAGE: 7.65 AC**

Potential Reforestation Planting Opportunities  
on DNR Properties  
**DNR\_24 & DNR\_25 - GREENWELL STATE PARK**  
**KEY MAP**





**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREA POLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW. WITH DNR, THE MLS NEPA TEAM CONDUCTED A FIELD VISIT ON JUNE 9, 2020 TO CONFIRM AND REFINE PROPOSED PLANTING BOUNDARIES. PLANTING AREAS NEED TO BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH DNR. NO PLANTING IS PROPOSED WITHIN WETLANDS.

**DNR\_24 IS ENTIRELY WITHIN THE CHESAPEAKE BAY CRITICAL AREA.**



**LEAVE POLLINATOR MEADOW OPEN**

**MnA**

**GRAVEL ACCESS ROAD (20 FT. WIDE)**

**MnC3**

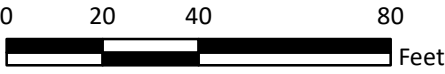
**MAINTAIN GRASS ACCESS PATH (12 FT. WIDE)**

**EwD2**

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- |                    |              |                        |                |
|--------------------|--------------|------------------------|----------------|
| DNR Planting Areas | NWI Waters   | FEMA 100 Yr Floodplain | 2 ft. Contours |
| DNR Parcels        | DNR Waters   | FEMA 500 Yr Floodplain |                |
| Site Access        | DNR Wetlands | Critical Area Boundary |                |
|                    | NWI Wetlands | SSURGO Soils           |                |



1 inch = 40 feet



**Potential Reforestation Planting Opportunities  
on DNR Owned Parcels**

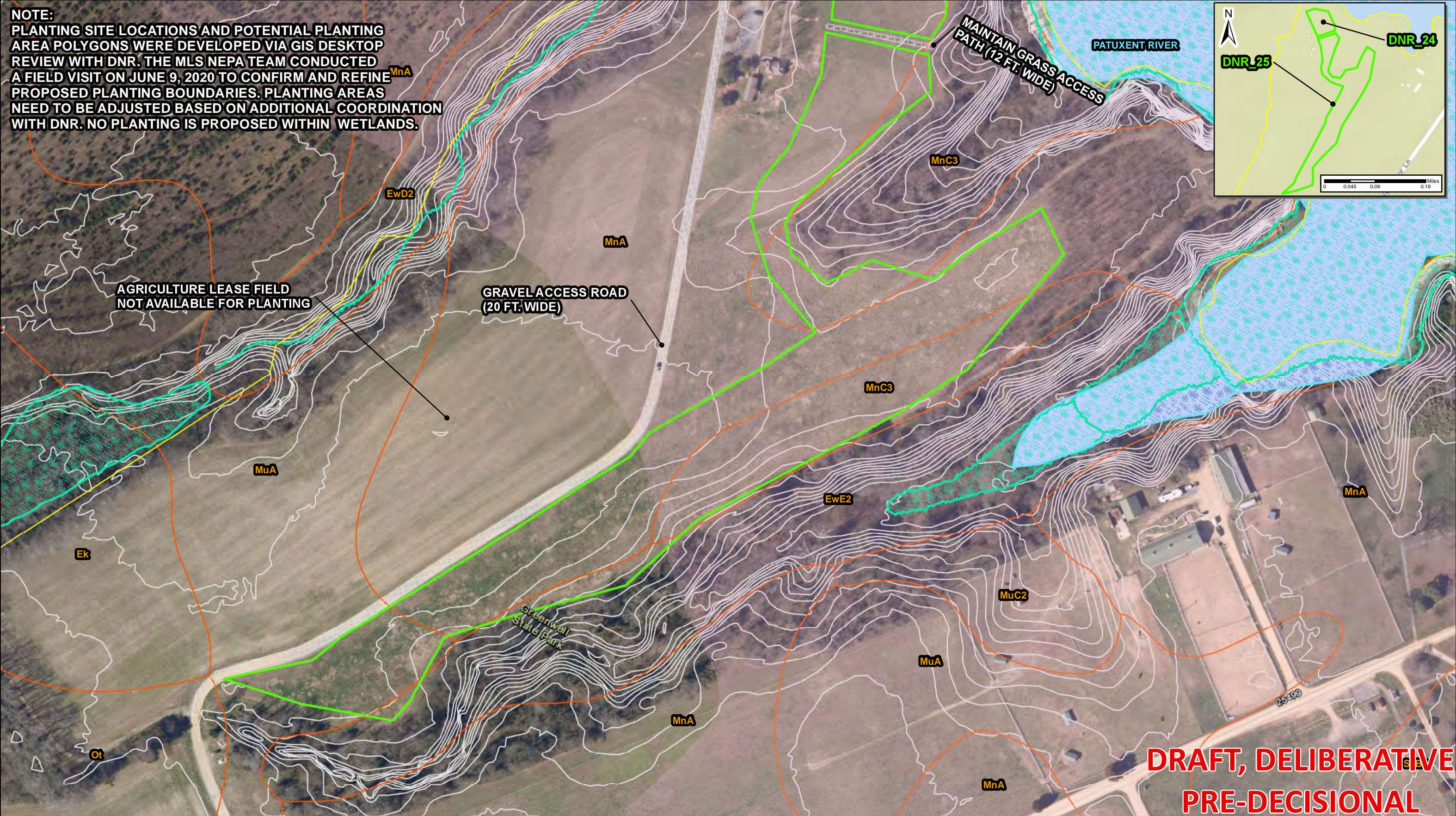
**DNR\_24: Greenwell State Park**  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
**Total Planting Acreage: 1.02**

Map 1 of 2

JULY 2020

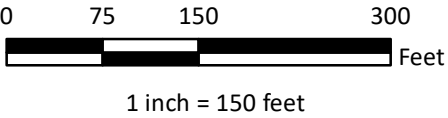


**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREA POLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW WITH DNR. THE MLS NEPA TEAM CONDUCTED A FIELD VISIT ON JUNE 9, 2020 TO CONFIRM AND REFINE PROPOSED PLANTING BOUNDARIES. PLANTING AREAS NEED TO BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH DNR. NO PLANTING IS PROPOSED WITHIN WETLANDS.



**LEGEND**

- |                    |              |                        |                |
|--------------------|--------------|------------------------|----------------|
| DNR Planting Areas | NWI Waters   | FEMA 100 Yr Floodplain | 2 ft. Contours |
| DNR Parcels        | DNR Wetlands | FEMA 500 Yr Floodplain |                |
| Site Access        | NWI Wetlands | Critical Area Boundary |                |
|                    |              | SSURGO Soils           |                |



**Potential Reforestation Planting Opportunities  
on DNR Owned Parcels**  
DNR\_25: Greenwell State Park  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
**Total Planting Acreage: 6.63**

Map 2 of 2

JULY 2020

**MANAGED LANES STUDY**





Larry Hogan, Governor  
 Boyd Rutherford, Lt. Governor  
 Jeannie Haddaway-Riccio, Secretary

August 21, 2020

Kate Gordon  
 Consultant Reviewer  
 Maryland Department of Transportation  
 State Highway Administration  
 I-495 & I-270 P3 Office  
 707 North Calvert St.  
 Mail Stop P-601  
 Baltimore, MD 21202

**RE: DNR Comments: I-270 & I-495 MLS Mitigation Plantings at Patuxent River State Park PIF; 2020DNR180**

Ms. Gordon:

Be advised that the Maryland Department of Natural Resources (DNR) Environmental Review Program (ERP) has completed the general review of the above referenced project located at Patuxent River State Park in Howard County, Maryland, which has been reviewed by DNR's team of interdisciplinary resources experts. Below are DNR's comments at this time. Additional materials and coordination is needed before this project is granted approval:

**DNR – Maryland Park Service (MPS) & DNR – Forest Service (FS):**

1. The PIF submitted for DNR Internal Review is missing valuable information. DNR requests additional information regarding MDOT SHA's proposed site preparations, tree species, planting techniques, and maintenance practices.
2. DNR recently enacted a new mitigation policy (*Attachment A*) for mitigation projects located on DNR Land. All proposed I-270 & I-495 MLS mitigation planting sites will have to be properly vetted by the mitigation policy before any sites are granted approval. Please note Section IV.1 in DNR's mitigation policy:

*"All requests for the use of DNR lands for the purpose of mitigating environmental impacts from other State agencies will be considered, but will only be granted when such use would be in the best interest of the Land Management Unit's management and public use objectives. Furthermore, any requests that are inconsistent with the Department's natural resource management goals and objectives will be denied."*

3. Patuxent River State Park Management has requested that the fenced in area behind the property on Jones Road be removed from the planting plan.

Tawes State Office Building – 580 Taylor Avenue – Annapolis, Maryland 21401  
 410-260-8DNR or toll free in Maryland 877-620-8DNR – [dnr.maryland.gov](http://dnr.maryland.gov) – TTY Users Call via the Maryland Relay



4. DNR was notified by the Maryland Department of Transportation (MDOT) State Highway Administration (SHA) on June 29, 2020 via email (*Attachment B*) that MDOT SHA may have to reduce their level of services at MDOT SHA tree planting sites on DNR Lands in response to COVID-19 budget cuts. This situation has made DNR question the dependability of current and future maintenance agreements with MDOT SHA for tree planting projects on DNR land. Long term site maintenance is a critical component to the I-270 & I-495 MLS mitigation plantings. Discussions are needed between DNR and MDOT SHA to generate a solution that secures long term maintenance for this project.

#### **DNR – Land Acquisition and Planning (LAP):**

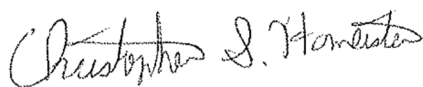
1. As was mentioned in the PIF, the existing public access should remain open and accessible during the project period. If this project will result in public access being closed for any period of time then DNR will need to submit a formal request to the National Park Service (NPS) describing the project and the time period we expect the area to be inaccessible. If the public access were expected to be impacted for longer than six months then NPS would consider this a conversion of use and would require MDOT SHA to provide replacement property for the impacted area.

#### **Maryland Historic Trust (MHT):**

1. The Federal Highway Administration (FHWA) and MDOT SHA will be leading coordination with MHT regarding the Section 106 process for the I-495 & I-270 MLS project. The consultation between FHWA/MDOT SHA and MHT for the overall undertaking will include an analysis of all off-site mitigation. Therefore, MHT has no comments at this time.

In summary, additional review materials have been requested by DNR. Please provide DNR information regarding MDOT SHA's proposed site preparations, tree species, planting techniques, and maintenance practices. All proposed mitigation sites need to be vetted by DNR's new mitigation policy prior to approval. Finally, discussions are needed between DNR and MDOT SHA to discover a way to guarantee site maintenance funding is secure for the agreed upon maintenance period. Further review of this project and discussions with MDOT SHA are required before approval is granted. Please continue to keep an open dialogue with DNR. Please contact Chris Homeister at [Christopher.Homeister@maryland.gov](mailto:Christopher.Homeister@maryland.gov) or by phone at 410-260-8750 if you have any questions or comments regarding this review.

Sincerely,



Chris Homeister, Environmental Review Program

Cc: Mary Owens  
LeeAnne Chandler  
Shea Niemann  
Marian Honecny  
Jack Perdue



Andrew Mengel  
Beth Cole  
Tony Redman  
Martha Stauss

Attachment A: DNR Mitigation Policy

Attachment B: SHA Reduced Level of Services Email



## Maryland Department of Natural Resources

**Subject:**                **Requests and conditions for mitigation projects on DNR land**

**Policy Number:**    **2019:03**

**Effective Date:**

**Approved:**

**Date:**

### **I.      Purpose**

The purpose of this policy is to provide a framework for evaluating and approving mitigation projects proposed for Department of Natural Resources (DNR) land by non-DNR entities for regulated environmental impacts that occur outside of lands owned and managed by DNR. The goal of this policy is to ensure that any mitigation projects allowed on DNR land meet the Department's standards for ecological benefit and are consistent with the Land Management Unit's management and public use objectives.

### **II.     Definition**

Environmental mitigation or compensatory mitigation are terms used to describe projects or programs intended to offset known regulated impacts to an existing natural resource such as a stream, wetland, or endangered species.

### **III.    Scope**

This policy applies Department-wide except for Forest Conservation Act mitigation requests which are addressed in Policy Number 2003:01 Forest Conservation Implementation and Mitigation on DNR Lands.

### **IV.    Policy**

It is the policy of the Department that the following represents the framework that will guide consideration of DNR lands for mitigating environmental impacts. If a proposed project could generate Total Maximum Daily Load credits, the project will be reserved for restoration at the discretion of the Department. Requests will be granted in the following scenarios only after the requesting party has provided sufficient proof to the Department that opportunities in the private sector have been adequately explored. Any requests for a mitigation project on DNR lands must be submitted to the Land Management Unit Internal Review point of contact with management responsibility for the property in question (see the annual "DNR Owned Lands Acreage" report to identify the appropriate unit).

#### **1.    Requests from State Agencies**

All requests for the use of DNR lands for the purpose of mitigating environmental impacts from other State agencies will be considered, but will only be granted when such use would be in the best interest of the Land Management Unit's management



and public use objectives. Furthermore, any requests that are inconsistent with the Department's natural resource management goals and objectives will be denied.

2. Requests from Counties, Municipalities or other Local Governments  
Requests for impacts not occurring on DNR lands will not be considered.
3. Requests from the Private Sector  
Requests for impacts not occurring on DNR lands will not be considered.

#### **V. Procedures for evaluating requests**

1. The Land Management Unit will determine if there are any projects that could be satisfied by the proposed mitigation and are consistent with land and natural resource management goals and objectives of the Department. Based on the Land Management Unit's determination, the unit may deny the project or accept it for further review. If accepted, the project shall be subject to the Department's Internal Review Process.
2. If the Land Management Unit accepts the project, the requesting agency must adhere to the following criteria.
  - a. Requesting agency must show due diligence in exhausting all other options before submitting a formal mitigation request to the Department. This shall consist of, at a minimum:
    - i. documentation of alternatives analysis, avoidance and minimization.
    - ii. documentation of alternative landowner contact and refusal.
  - b. Project designs must achieve natural resource, aesthetic and public use outcomes as established by the Department for the specific project.

#### **VI. Conditions for implementation**

1. Project designs must be approved by the Department before submitting a permit application(s) to the regulatory agency and, additionally, prior to construction.
2. Subsequent design modifications must also be approved by the Department during all phases of planning and construction.
3. The Department will conduct a final site inspection to ensure the project is completed in accordance with approved drawing and specifications and meets the Department's management goals. This will be documented via correspondence from the Department to the project sponsor.
4. The project sponsor will bear responsibility for project maintenance requirements and guarantees according to the terms of the permit and in coordination with the Land Management Unit and other DNR staff for a minimum period of five (5) years following construction.





Christopher Homeister -DNR- &lt;christopher.homeister@maryland.gov&gt;

---

## Reduced Level of Service for DNR MPS - MDOT SHA Partnership Sites

---

**Karen Coffman** <KCoffman@mdot.maryland.gov>

Mon, Jun 29, 2020 at 8:59 PM

To: LeeAnne Chandler -DNR- &lt;leeanne.chandler@maryland.gov&gt;, Christopher Homeister &lt;christopher.homeister@maryland.gov&gt;

Cc: Ryan Cole &lt;RCole@mdot.maryland.gov&gt;, Kevin Wilsey &lt;KWilsey@mdot.maryland.gov&gt;

Hello LeeAnne and Christopher,

I apologize for not getting back to you sooner. As we have moved through FY20 towards FY21, it has become apparent that the State budget shortfall due to COVID-19 response efforts and reduced transportation related revenues due to sheltering-in-place orders has had a significant impact on MDOT SHA budgets for the next two years. In preparing for the coming years, MDOT SHA has eliminated all State funded spending where possible, and we anticipate this to impact our ability to meet commitments to our partners during this time. The impacts to the MDOT SHA - DNR MPS partnerships are indicated below.

The last year or so, MDOT SHA Office of Environmental Design has been working to establish a comprehensive adaptive management program that would address our many off-site restoration, mitigation, and environmental banking commitments using a variety of contracting mechanisms and both federal and State funding sources. Unfortunately, before we could implement new methods for managing these assets, the COVID-19 crisis has interrupted this program development indefinitely. However, in order to address your immediate concerns, we will investigate the possibility of issuing a federally funded small procurement contract. This will take a few weeks to resolve.

Another partnership area impacted by the budget shortfalls are reimbursements and land use payments identified in various executed PTAs. These will be deferred until we can program the funds which will likely be a few years down the road. Sonal Ram spoke to Matt Flemming related to this deferment.

Lastly, concerning finalizing our agreements/PTAs as site construction is completed, our MS4 permit expires October 8, 2020, and we may not have the financial resources in place to develop and execute final PTAs for our joint partnership restoration projects before that time. Regardless of this, MDOT SHA will claim the credits associated with these projects in order to close out MDOT SHA restoration compliance with the October 2020 MS4 Annual Report and will seek to finalize the PTAs at the first opportunity. We also see the need to renegotiate the tree establishment agreement as there are sites that both parties would like to exclude, and MDOT SHA would like to revisit the vegetation management expectations as our adaptive management program is developed.

We appreciate your understanding of the current budget constraints and look forward to continuing the discussion.

Karen

*Karen Coffman*

Chief, Water Programs Division

Office of Environmental Design

MDOT State Highway Administration

410-456-3317 (Mobile)



[kcoffman@mdot.maryland.gov](mailto:kcoffman@mdot.maryland.gov)

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**I-495 & I-270 Managed Lanes Study**  
**Potential Reforestation Mitigation Site Field Review at Patuxent State Park**  
**Jones Rd Planting Site**  
**July 17, 2019 @ 11:00am**

A field review meeting was conducted on July 17, 2019 with Maryland Department of Natural Resources (DNR) to discuss potential planting opportunities for reforestation mitigation credits needed for the I-495 & I-270 Managed Lanes Study (MLS). A summary of the topics discussed at the meeting follows.

### Introductions

Participants met at a Patuxent River State Park parcel located near 3200 Jones Road, Woodbine, Maryland 21797. The meeting began with introductions, followed by a general summary of the reforestation mitigation process and credit needs for this project by Greg O'Hare. Shea Niemann, Patuxent River State Park Manager provided an overview of the site located within the Patuxent River watershed in Howard County, just over the Montgomery County line. A portion of the parcel was formerly used as an airfield and is currently being mowed by the adjacent private property owner. The group then walked the site and discussed potential planting areas onsite.

### Planting Opportunities

- Shea indicated that the entire mowed area (approximately 14.2 acres) is available for reforestation planting.
- There is approximately 1.42 acres of an invasive Bradford pear stand, adjacent to the mowed area that can be cleared and prepared for reforestation planting as well.
- A 12-foot access road must remain unplanted for routine site maintenance.

### Action Items

- Shea will identify additional potential planting opportunities at Monocacy Natural Resource Management Area (NRMA), Seneca Creek, and Patuxent River State Parks.
- Shea will check with DNR parks forestry staff to see if they are aware of any other reforestation opportunities within the Patuxent River and Washington Metropolitan MDE 6-Digit Watersheds.
- RK&K will develop mapping that shows potential planting areas, invasive tree removal areas, and access areas for DNR to review.
  - Mapping is attached.
- RK&K will follow-up with Mary Owens (DNR Planning) to discuss planting opportunities on DNR property and the process for DNR Reforestation Law approval.

### Attendees:

Name	Agency	Email
Shea Niemann	Maryland Department of Natural Resources	<a href="mailto:shea.niemann@maryland.gov">shea.niemann@maryland.gov</a>
Greg O'Hare	P3/RK&K	<a href="mailto:gohare@rkk.com">gohare@rkk.com</a>
Anita Alexander	P3/RK&K	<a href="mailto:aalexander@rkk.com">aalexander@rkk.com</a>
Sarah Falcone	P3/RK&K	<a href="mailto:sfalcone@rkk.com">sfalcone@rkk.com</a>

Confidential, Deliberative and Pre-Decisional





## Managed Lanes Study

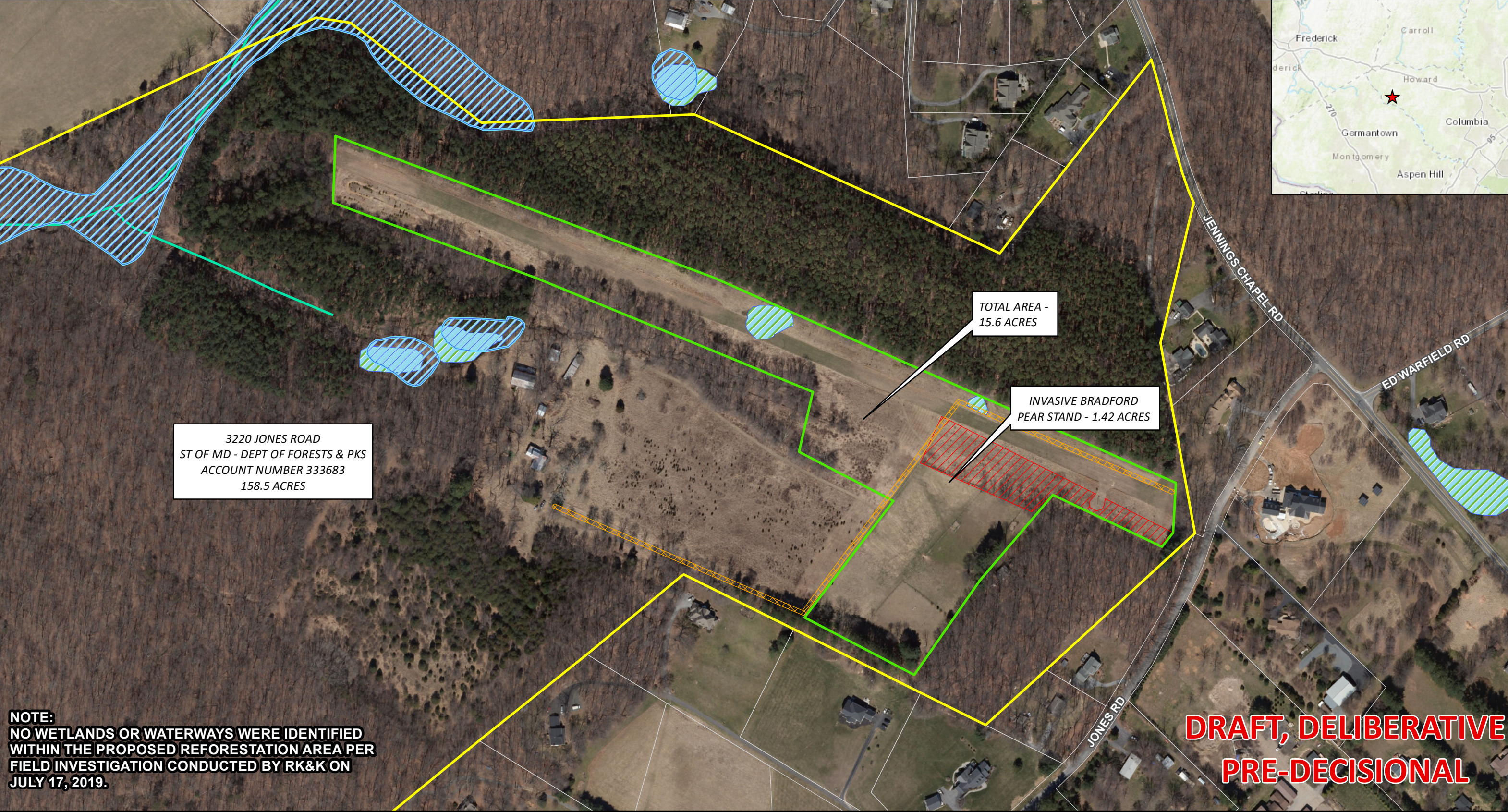
## DNR Forest Mitigation Field Review

July 17, 2019

### SIGN IN SHEET

Name	Agency/Company	Phone Number	Email Address
Shea Niemann	Maryland Department of Natural Resources	(301) 924-2127 – work	<a href="mailto:shea.niemann@maryland.gov">shea.niemann@maryland.gov</a>
Greg O'Hare	RK&K	(410) 462-9165 – work	<a href="mailto:gohare@rkk.com">gohare@rkk.com</a>
Anita Alexander	RK&K	(410) 462-9358 – work	<a href="mailto:aalexander@rkk.com">aalexander@rkk.com</a>
Sarah Falcone	RK&K	(410) 462-9483 – work	<a href="mailto:sfalcone@rkk.com">sfalcone@rkk.com</a>

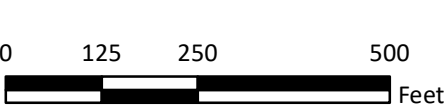




**LEGEND**

- DNR Parcel
- Adjacent Parcel Boundary
- Proposed Reforestation Area
- Access Path to Remain Unplanted (12 feet wide)

- Invasive Tree Removal Area
- NWI Wetlands
- NWI Waters
- DNR Wetlands
- DNR Waters



**Potential Jones Rd Reforestation  
Site at Patuxent River State Park**







Larry Hogan, Governor  
 Boyd Rutherford, Lt. Governor  
 Jeannie Haddaway-Riccio, Secretary

September 8, 2020

Kate Gordon  
 Consultant Reviewer  
 Maryland Department of Transportation  
 State Highway Administration  
 I-495 & I-270 P3 Office  
 707 North Calvert St.  
 Mail Stop P-601  
 Baltimore, MD 21202

**RE: DNR Comments: I-270 & I-495 MLS Mitigation Plantings at Rosaryville State Park PIF; 2020DNR189 (FMIS# AW073A11)**

Ms. Gordon:

Be advised that the Maryland Department of Natural Resources (DNR) Environmental Review Program (ERP) has completed the general review of the above referenced project located at Rosaryville State Park in Prince George's County, Maryland, which has been reviewed by DNR's team of interdisciplinary resources experts. Below are DNR's comments at this time. Additional materials and coordination is needed before this project is granted approval:

**DNR – Maryland Park Service (MPS) & DNR – Forest Service (FS):**

1. The PIF submitted for DNR Internal Review is missing valuable information. DNR requests additional information regarding the Maryland Department of Transportation (MDOT) State Highway Administration (SHA's) proposed site preparations, tree species, planting techniques, and maintenance practices.
2. The DNR recently enacted a new mitigation policy (*Attachment A*) for mitigation projects located on DNR Land. All proposed I-270 & I-495 Managed Lanes Study (MLS) mitigation planting sites will have to be properly vetted by the mitigation policy before any sites are granted approval. Please note Section IV.1 in DNR's mitigation policy:

*"All requests for the use of DNR lands for the purpose of mitigating environmental impacts from other State agencies will be considered, but will only be granted when such use would be in the best interest of the Land Management Unit's management and public use objectives. Furthermore, any requests that are inconsistent with the Department's natural resource management goals and objectives will be denied."*



3. The I-270 & I-495 MLS project is a MDOT SHA and a Public Private Partnership (P3) project. Who is the party responsible for the tree plantings and long term maintenance? Is it MDOT SHA or P3? What is the legal status of P3? What kind of agency does P3 identify as? Is P3 considered a state agency?
4. The DNR was notified by MDOT SHA on June 29, 2020 via email (*Attachment B*) that MDOT SHA may have to reduce their level of services at MDOT SHA tree planting sites on DNR Lands in response to COVID-19 budget cuts. This situation has made the DNR question the dependability of current and future maintenance agreements with MDOT SHA for tree planting projects on DNR land. Long term site maintenance is a critical component to the I-270 & I-495 MLS mitigation plantings. Discussions are needed between the DNR and MDOT SHA to generate a solution that secures long term maintenance for this project.

#### **DNR – Land Acquisition and Planning (LAP):**

1. Rosaryville State Park has not received LWCF funding for acquisition or development projects. There are no concerns with this mitigation planting from an LWCF stewardship perspective.

#### **DNR – Wildlife and Heritage Service (WHS):**

1. The Natural Heritage Program supports the proposed reforestation of fields on these properties. Reforestation will provide better protection of the hydrology and water quality of wetlands downstream on Charles Branch that support rare plant species. The habitat for forest interior dwelling birds at Rosaryville State Park will be expanded and improved as fields that cause extensive edge effects develop a forest canopy and become part of the forest interior. The control of invasive plants until the forest canopy closes in these reforested areas will be vital to the success of this project, and Natural Heritage recommends that this be required in the authorization.

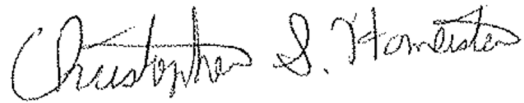
#### **Maryland Historic Trust (MHT):**

1. The Federal Highway Administration (FHWA) and MDOT SHA will be leading coordination with MHT regarding the Section 106 process for the I-495 & I-270 MLS project. The consultation between FHWA/MDOT SHA and MHT for the overall undertaking will include an analysis of all off-site mitigation. Therefore, MHT has no comments at this time.

In summary, additional review materials have been requested by the DNR. Please provide the DNR information regarding MDOT SHA's proposed site preparations, tree species, planting techniques, and maintenance practices. All proposed mitigation sites need to be vetted by the DNR's new mitigation policy prior to approval. Finally, discussions are needed between the DNR and MDOT SHA to discover a way to guarantee site maintenance funding is secure for the agreed upon maintenance period. Further review of this project and discussions with MDOT SHA are required before approval is granted. Please continue to keep an open dialogue with DNR. Please contact Chris Homeister at [Christopher.Homeister@maryland.gov](mailto:Christopher.Homeister@maryland.gov) or by phone at 301-395-2306 if you have any questions or comments regarding this review.



Sincerely,

A handwritten signature in black ink, reading "Christopher S. Homeister". The signature is written in a cursive, flowing style.

Chris Homeister, Environmental Review Program

Cc: Mary Owens  
LeeAnne Chandler  
Jacob Wells  
Marian Honecny  
Jack Perdue  
Andrew Mengel  
Beth Cole  
Tony Redman  
Martha Stauss

Attachment A: DNR Mitigation Policy  
Attachment B: SHA Reduced Level of Services Email



## Maryland Department of Natural Resources

**Subject:**                    **Requests and conditions for mitigation projects on DNR land**

**Policy Number:**

**Effective Date:**

**Approved:**

**Date:**

### **I. Purpose**

The purpose of this policy is to provide a framework for evaluating and approving mitigation projects proposed for Department of Natural Resources (DNR) land by non-DNR entities for regulated environmental impacts that occur outside of lands owned and managed by DNR. The goal of this policy is to ensure that any mitigation projects allowed on DNR land meet the Department's standards for ecological benefit and are consistent with the Land Management Unit's management and public use objectives.

### **II. Definition**

Environmental mitigation or compensatory mitigation are terms used to describe projects or programs intended to offset known regulated impacts to an existing natural resource such as a stream, wetland, or endangered species.

### **III. Scope**

This policy applies to all mitigation requests proposed to occur on DNR land except for those related to Forest Conservation Act mitigation or Reforestation Act mitigation banking.

### **IV. Policy**

It is the policy of the Department that the following represents the framework that will guide consideration of DNR lands for mitigating environmental impacts. If a proposed project could generate Total Maximum Daily Load credits, the project will be reserved for restoration at the discretion of the Department. Requests will be granted in the following scenarios only after the requesting party has provided sufficient proof to the Department that opportunities in the private sector have been adequately explored. Any requests for a mitigation project on DNR lands must be submitted to the Land Management Unit Internal Review point of contact with management responsibility for the property in question (see the annual "DNR Owned Lands Acreage" report to identify the appropriate unit).

#### **1. Requests from State Agencies**

All requests for the use of DNR lands for the purpose of mitigating environmental impacts from other State agencies will be considered, but will only be granted when such use would be in the best interest of the Land Management Unit's management



and public use objectives. Furthermore, any requests that are inconsistent with the Department's natural resource management goals and objectives will be denied.

2. Requests from Counties, Municipalities or other Local Governments  
Requests for impacts not occurring on DNR lands will not be considered.
3. Requests from the Private Sector  
Requests for impacts not occurring on DNR lands will not be considered.

#### **V. Procedures for evaluating requests**

1. The Land Management Unit will determine if there are any projects that could be satisfied by the proposed mitigation and are consistent with land and natural resource management goals and objectives of the Department. Based on the Land Management Unit's determination, the unit may deny the project or accept it for further review. If accepted, the project shall be subject to the Department's Internal Review Process.
2. If the Land Management Unit accepts the project, the requesting agency must adhere to the following criteria.
  - a. Requesting agency must show due diligence in exhausting all other options before submitting a formal mitigation request to the Department. This shall consist of, at a minimum:
    - i. documentation of alternatives analysis, avoidance and minimization.
    - ii. documentation of alternative landowner contact and refusal.
  - b. Project designs must achieve natural resource, aesthetic and public use outcomes as established by the Department for the specific project.

#### **VI. Conditions for implementation**

1. Project designs must be approved by the Department before submitting a permit application(s) to the regulatory agency and, additionally, prior to construction.
2. Subsequent design modifications must also be approved by the Department during all phases of planning and construction.
3. The Department will conduct a final site inspection to ensure the project is completed in accordance with approved drawing and specifications and meets the Department's management goals. This will be documented via correspondence from the Department to the project sponsor.
4. The project sponsor will bear responsibility for project maintenance requirements and guarantees according to the terms of the permit and in coordination with the Land Management Unit and other DNR staff for a minimum period of five (5) years following construction.





Christopher Homeister -DNR- &lt;christopher.homeister@maryland.gov&gt;

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## Reduced Level of Service for DNR MPS - MDOT SHA Partnership Sites

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**Karen Coffman** <KCoffman@mdot.maryland.gov>

Mon, Jun 29, 2020 at 8:59 PM

To: LeeAnne Chandler -DNR- &lt;leeanne.chandler@maryland.gov&gt;, Christopher Homeister &lt;christopher.homeister@maryland.gov&gt;

Cc: Ryan Cole &lt;RCole@mdot.maryland.gov&gt;, Kevin Wilsey &lt;KWilsey@mdot.maryland.gov&gt;

Hello LeeAnne and Christopher,

I apologize for not getting back to you sooner. As we have moved through FY20 towards FY21, it has become apparent that the State budget shortfall due to COVID-19 response efforts and reduced transportation related revenues due to sheltering-in-place orders has had a significant impact on MDOT SHA budgets for the next two years. In preparing for the coming years, MDOT SHA has eliminated all State funded spending where possible, and we anticipate this to impact our ability to meet commitments to our partners during this time. The impacts to the MDOT SHA - DNR MPS partnerships are indicated below.

The last year or so, MDOT SHA Office of Environmental Design has been working to establish a comprehensive adaptive management program that would address our many off-site restoration, mitigation, and environmental banking commitments using a variety of contracting mechanisms and both federal and State funding sources. Unfortunately, before we could implement new methods for managing these assets, the COVID-19 crisis has interrupted this program development indefinitely. However, in order to address your immediate concerns, we will investigate the possibility of issuing a federally funded small procurement contract. This will take a few weeks to resolve.

Another partnership area impacted by the budget shortfalls are reimbursements and land use payments identified in various executed PTAs. These will be deferred until we can program the funds which will likely be a few years down the road. Sonal Ram spoke to Matt Flemming related to this deferment.

Lastly, concerning finalizing our agreements/PTAs as site construction is completed, our MS4 permit expires October 8, 2020, and we may not have the financial resources in place to develop and execute final PTAs for our joint partnership restoration projects before that time. Regardless of this, MDOT SHA will claim the credits associated with these projects in order to close out MDOT SHA restoration compliance with the October 2020 MS4 Annual Report and will seek to finalize the PTAs at the first opportunity. We also see the need to renegotiate the tree establishment agreement as there are sites that both parties would like to exclude, and MDOT SHA would like to revisit the vegetation management expectations as our adaptive management program is developed.

We appreciate your understanding of the current budget constraints and look forward to continuing the discussion.

Karen

*Karen Coffman*

Chief, Water Programs Division

Office of Environmental Design

MDOT State Highway Administration

410-456-3317 (Mobile)



[kcoffman@mdot.maryland.gov](mailto:kcoffman@mdot.maryland.gov)

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## **I-495 & I-270 Managed Lanes Study**

### **Potential Reforestation Mitigation Site Opportunities at Rosaryville State Park & the Wood Property**

**April 30, 2020 @ 10:00am**

A desktop review meeting was conducted on April 30, 2020 with Maryland Department of Natural Resources (DNR) to discuss potential planting opportunities for reforestation mitigation credits needed for the I-495 & I-270 Managed Lanes Study (MLS). A summary of the topics discussed at the meeting follows.

#### **Introductions**

Participants met online via Microsoft Teams for a video call. The meeting began with introductions, followed by a brief summary of the reforestation mitigation needs for this project. Jacob Wells, Southern Maryland Recreational Complex Park Manager provided an overview of the Rosaryville State Park and Wood Property sites located within the Patuxent River Watershed in Prince George's County, just southeast of the Andrews Air Force Base facility. A majority of Rosaryville State Park is forested, with 39.3 acres of mowed areas available for planting in the northern portion of the park parcel. The Wood Property located just northeast of Rosaryville State Park will be purchased by DNR at a later date and has approximately 64.6 acres of open fields available for planting. The group reviewed KMZs of potential planting areas developed by RK&K in Google Earth and discussed the viability of each site.

#### **Planting Opportunities at Rosaryville State Park**

- Jacob indicated that all mowed areas on Rosaryville State Park property, with exception of the Mt. Airy Mansion and associated historic properties, are available for reforestation planting. There is a possibility that some open areas may be used for pollinator sites. For now, Jacob recommended assuming all open areas may be used for reforestation planting.
- DNR had a contract with a conservancy group to manage the Mt. Airy Mansion. The contract expired last year and the State is now responsible for managing the mansion and historic portion of the park.
- Most of the planting areas at Rosaryville State Park are easily accessible off of existing grass and paved access roads, which should be maintained. Site DNR-08 and DNR-09 can be accessed via a gravel access road off of one of the park roads.

#### **Planting Opportunities at the Wood Property**

- All open fields on the Wood Property will be available for reforestation planting, once the property is acquired by DNR. Dilapidated structures on the Wood Property will need to be removed prior to reforestation planting. DNR will clarify responsibility for site preparation prior to reforestation planting.
- Two planting areas identified by MDOT SHA on the Wood Property (DNR\_19 and DNR\_22) were expanded based on Jacob's feedback.
- The proposed planting areas should not impact any existing grass or paved access roads.
- The Wood Property is immediately adjacent to Rosaryville State Park, but there are no existing roads that currently connect the two properties. Alternate access to the Wood Property via Perrywood Road on the northwest side of the property is being explored by DNR and Prince George's County; coordination is ongoing. For PIF coordination, we will show access to the Wood Property via Perrywood Road.
- If construction access via Perrywood Road or through Rosaryville State Park is not feasible, access to the Wood Property could potentially be provided via the utility ROW that borders the park following coordination with Potomac Electric Power Company for approval.

#### **Action Items**

- MDOT SHA will develop preliminary mapping that shows potential planting areas, access notes, and





general site notes for DNR to review and approve. *Mapping is attached.*

### Field Review Updates

- Representatives from the MLS Team conducted a site visit to Rosaryville State Park on June 26, 2020.
- Site access was confirmed and is shown on the attached mapping.
- The planting boundaries for DNR\_08 – DNR\_12 and DNR\_15 were appropriate as determined during the desktop review.
- The planting boundary for DNR\_13 was revised to avoid planting within an existing sewer ROW and the boundary for DNR\_14 was revised to avoid planting within an existing SWM facility. See attached mapping that shows revised boundaries and appropriate planting offsets.

### Attendees:

Name	Agency	Email
Jacob Wells	Maryland Department of Natural Resources	<a href="mailto:jacob.wells@maryland.gov">jacob.wells@maryland.gov</a>
Greg O'Hare	MDOT SHA/RK&K	<a href="mailto:gohare@rkk.com">gohare@rkk.com</a>
Kate Gordon	MDOT SHA/RK&K	<a href="mailto:kgordon@rkk.com">kgordon@rkk.com</a>
Anita Alexander	MDOT SHA/RK&K	<a href="mailto:aalexander@rkk.com">aalexander@rkk.com</a>



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**TOTAL PROPOSED  
PLANTING ACREAGE: 39.3 AC**

- 0 180 360 720 Feet
- 1 inch = 360 feet












**ROSARYVILLE STATE PARK KEY MAP**  
**JULY 2020**

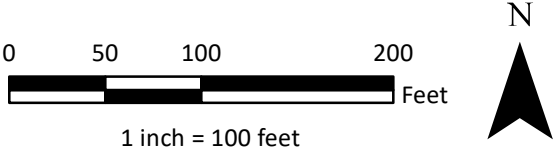


**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING  
AREA POLYGONS WERE DEVELOPED VIA GOOGLE EARTH  
AND GIS DESKTOP REVIEW WITH DNR. A FIELD INVESTIGATION  
WAS CONDUCTED BY THE MLS NEPA TEAM ON JUNE 26, 2020  
TO REVIEW AND REFINE THE PROPOSED PLANTING BOUNDARIES.  
NO PLANTING IS PROPOSED WITHIN WETLANDS.



**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

LEGEND			
 DNR Planting Areas	 Planting Conflicts	 DNR Wetlands	
 DNR Parcels	 NWI Waters	 FEMA 100 Yr Floodplain	
 Adjacent Parcel Boundary	 DNR Waters	 FEMA 500 Yr Floodplain	
 Site Access	 NWI Wetlands		



**Potential Reforestation Planting Opportunities  
on DNR Properties**

DNR\_08: Rosaryville State Park

MDE 6 Digit Watershed: 021311 Patuxent River Watershed

**Total Planting Acreage: 5.1**

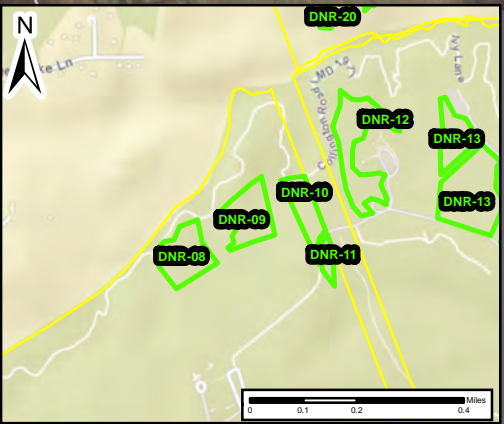
Map 1 of 16

JULY 2020

**MANAGED  
LANES STUDY**



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UNNAMED TRIBUTARY  
TO CHARLES BRANCH

Rosaryville  
State Park

EXISTING UTILITY ROW

DNR-10

DNR-09

GRAVEL ACCESS  
ROAD (20 FT. WIDE)

MAINTAIN EXISTING GRAVEL  
25 FT. DNR ACCESS ROAD

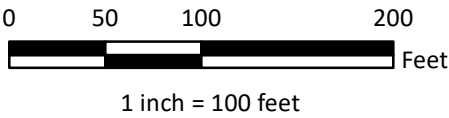
DNR-08

DNR-11

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PRE-DECISIONAL**

**LEGEND**

- |                          |                    |                        |
|--------------------------|--------------------|------------------------|
| DNR Planting Areas       | Planting Conflicts | DNR Wetlands           |
| DNR Parcels              | NWI Waters         | FEMA 100 Yr Floodplain |
| Adjacent Parcel Boundary | DNR Waters         | FEMA 500 Yr Floodplain |
| Site Access              | NWI Wetlands       |                        |



**Potential Reforestation Planting Opportunities  
on DNR Properties**

DNR\_09: Rosaryville State Park

MDE 6 Digit Watershed: 021311 Patuxent River Watershed

**Total Planting Acreage: 4.8**

Map 2 of 16

JULY 2020





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Rosaryville  
State Park

EXISTING UTILITY ROW

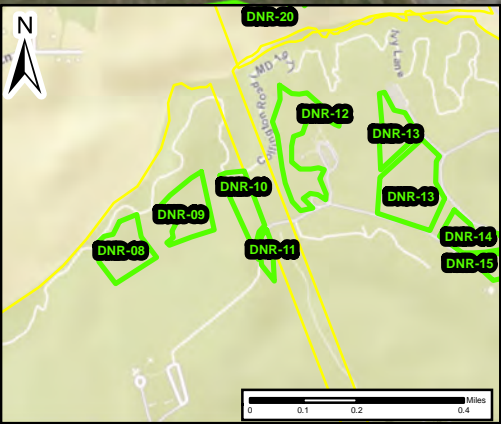
DNR-10

DNR-09

MAINTAIN EXISTING GRAVEL  
25 FT. DNR ACCESS ROAD

DNR-11

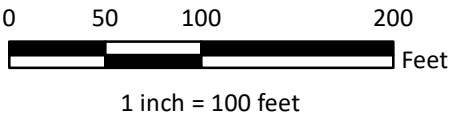
DNR-



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PRE-DECISIONAL**

**LEGEND**

- |                          |                    |                        |
|--------------------------|--------------------|------------------------|
| DNR Planting Areas       | Planting Conflicts | DNR Wetlands           |
| DNR Parcels              | NWI Waters         | FEMA 100 Yr Floodplain |
| Adjacent Parcel Boundary | DNR Waters         | FEMA 500 Yr Floodplain |
| Site Access              | NWI Wetlands       |                        |



**Potential Reforestation Planting Opportunities  
on DNR Properties**

DNR\_10: Rosaryville State Park  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
**Total Planting Acreage: 3.4**

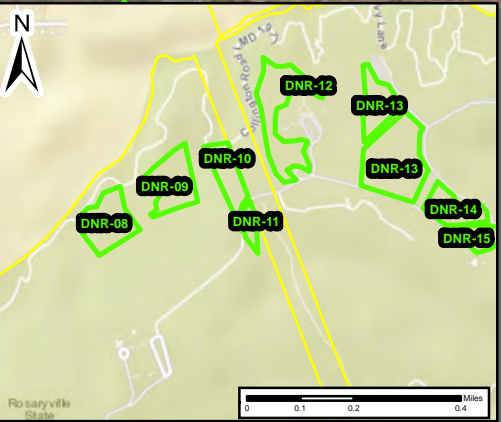
Map 3 of 16

JULY 2020

**MANAGED  
LANES STUDY**



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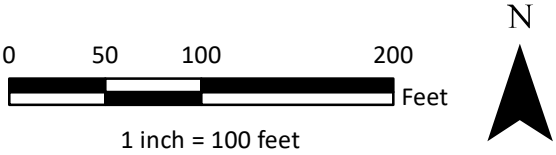


MAINTAIN EXISTING GRAVEL  
25 FT. DNR ACCESS ROAD

EXISTING UTILITY ROW

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PRE-DECISIONAL**

LEGEND			
DNR Planting Areas	PlantingConflicts	DNR Wetlands	
DNR Parcels	NWI Waters	FEMA 100 Yr Floodplain	
Adjacent Parcel Boundary	DNR Waters	FEMA 500 Yr Floodplain	
Site Access	NWI Wetlands		



Potential Reforestation Planting Opportunities  
on DNR Properties  
DNR\_11: Rosaryville State Park  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
Total Planting Acreage: 1.1

Map 4 of 16

JULY 2020

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UNNAMED TRIBUTARY  
TO CHARLES BRANCH

DNR-12

DNR-13

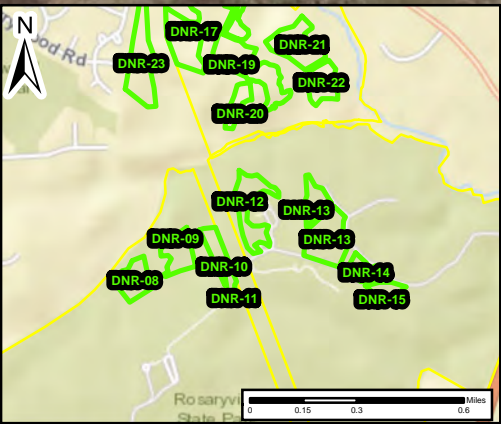
DNR-13

DNR-10

DNR-09

EXISTING UTILITY ROW

MAINTAIN EXISTING PAVED  
25 FT. DNR ACCESS ROAD



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PRE-DECISIONAL**

**LEGEND**

DNR Planting Areas

DNR Parcels

Adjacent Parcel Boundary

Site Access

PlantingConflicts

NWI Waters

DNR Waters

NWI Wetlands

DNR Wetlands

FEMA 100 Yr Floodplain

FEMA 500 Yr Floodplain

**Potential Reforestation Planting Opportunities  
on DNR Properties**  
**DNR\_12: Rosaryville State Park**  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
**Total Planting Acreage: 7.5**

Map 5 of 16

JULY 2020

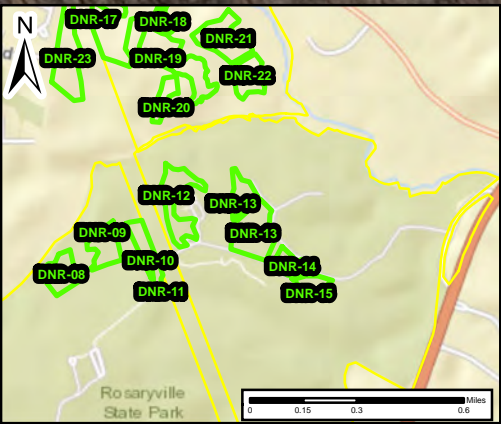
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LANES STUDY**

DRAFT, DELIBERATIVE, PRE-DECISIONAL

Page 145 of 345



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LEGEND			
DNR Planting Areas	Planting Conflicts	DNR Wetlands	
DNR Parcels	NWI Waters	FEMA 100 Yr Floodplain	
Adjacent Parcel Boundary	DNR Waters	FEMA 500 Yr Floodplain	
Site Access	NWI Wetlands		



Potential Reforestation Planting Opportunities  
on DNR Properties  
DNR\_13: Rosaryville State Park  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
Total Planting Acreage: 12

Map 6 of 16

JULY 2020

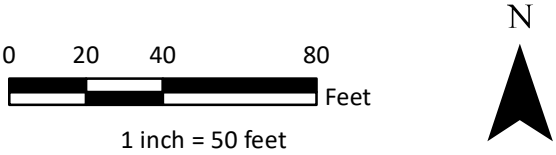
**MANAGED LANES STUDY**



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LEGEND			
DNR Planting Areas	PlantingConflicts	DNR Wetlands	
DNR Parcels	NWI Waters	FEMA 100 Yr Floodplain	
Adjacent Parcel Boundary	DNR Waters	FEMA 500 Yr Floodplain	
Site Access	NWI Wetlands		



Potential Reforestation Planting Opportunities  
on DNR Properties  
DNR\_14: Rosaryville State Park  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
Total Planting Acreage: 3.3

Map 7 of 16

JULY 2020














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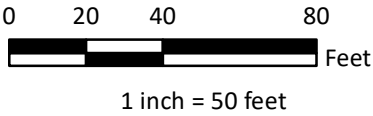


MAINTAIN EXISTING  
25 FT. DNR ACCESS ROAD

DNR-15

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PRE-DECISIONAL**


LEGEND			
 DNR Planting Areas	 PlantingConflicts	 DNR Wetlands	
 DNR Parcels	 NWI Waters	 FEMA 100 Yr Floodplain	
 Adjacent Parcel Boundary	 DNR Waters	 FEMA 500 Yr Floodplain	
 Site Access	 NWI Wetlands		



**Potential Reforestation Planting Opportunities  
on DNR Properties**  
DNR\_15: Rosaryville State Park  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
**Total Planting Acreage: 2.1**

Map 8 of 16

JULY 2020

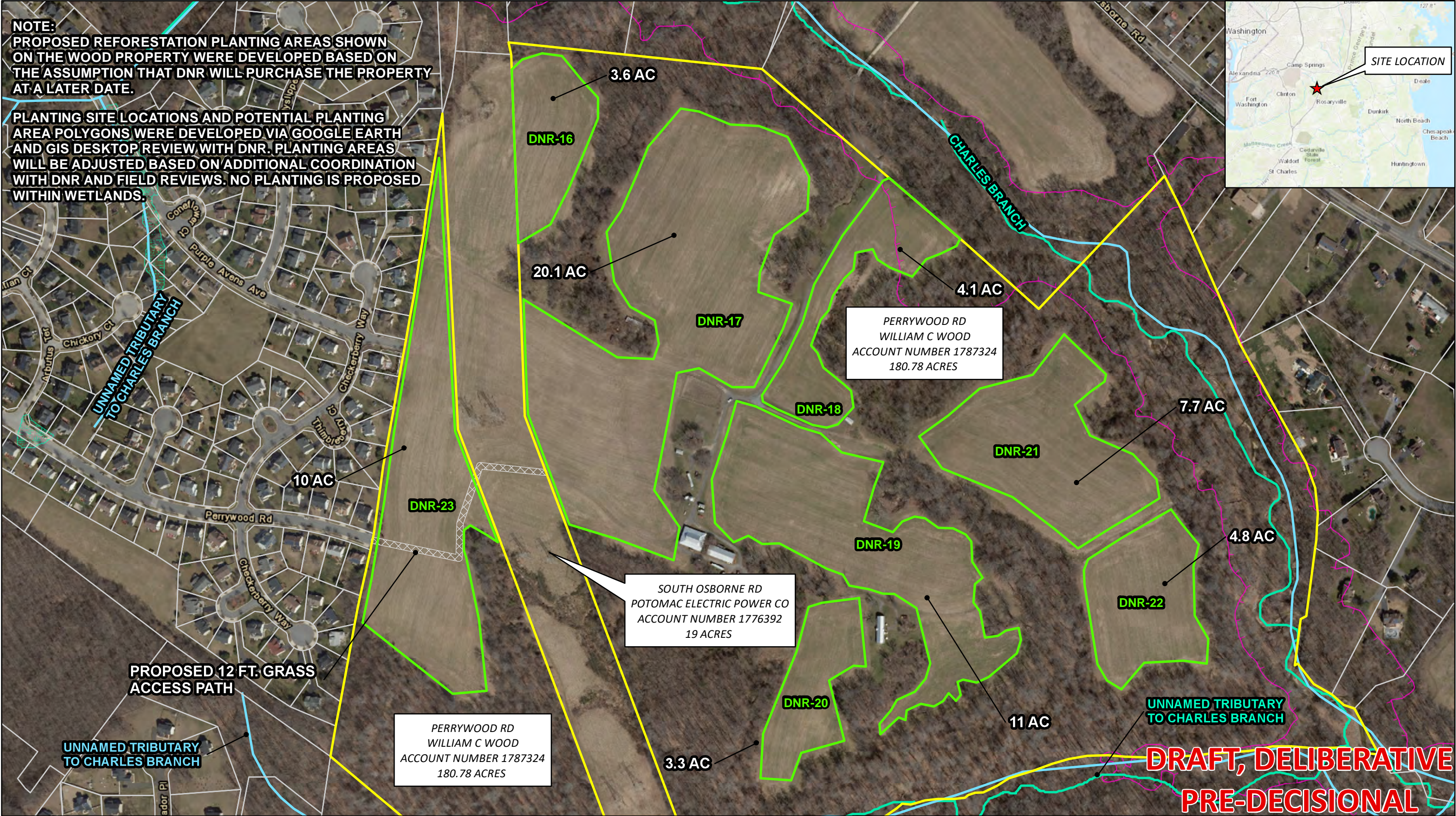


495 270  
MANAGED  
LANES STUDY



**NOTE:**  
PROPOSED REFORESTATION PLANTING AREAS SHOWN ON THE WOOD PROPERTY WERE DEVELOPED BASED ON THE ASSUMPTION THAT DNR WILL PURCHASE THE PROPERTY AT A LATER DATE.

PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREA POLYGONS WERE DEVELOPED VIA GOOGLE EARTH AND GIS DESKTOP REVIEW WITH DNR. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH DNR AND FIELD REVIEWS. NO PLANTING IS PROPOSED WITHIN WETLANDS.



**LEGEND**

- |                          |                    |                        |
|--------------------------|--------------------|------------------------|
| DNR Planting Areas       | Planting Conflicts | DNR Wetlands           |
| DNR Parcels              | NWI Waters         | FEMA 100 Yr Floodplain |
| Adjacent Parcel Boundary | DNR Waters         | FEMA 500 Yr Floodplain |
| Site Access              | NWI Wetlands       |                        |

0 165 330 660 Feet  
1 inch = 330 feet  
**TOTAL PROPOSED PLANTING ACREAGE: 64.6 AC**

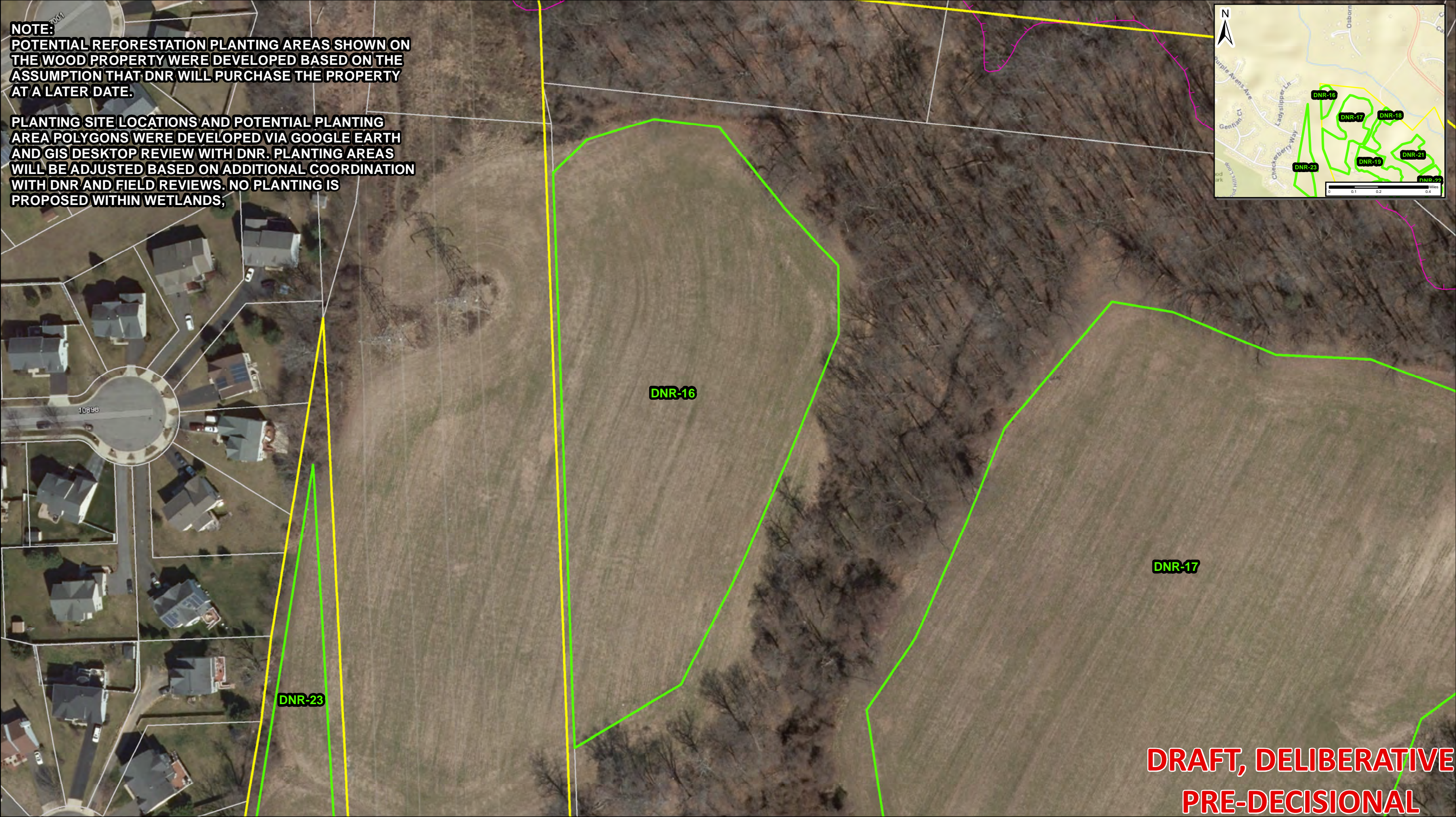
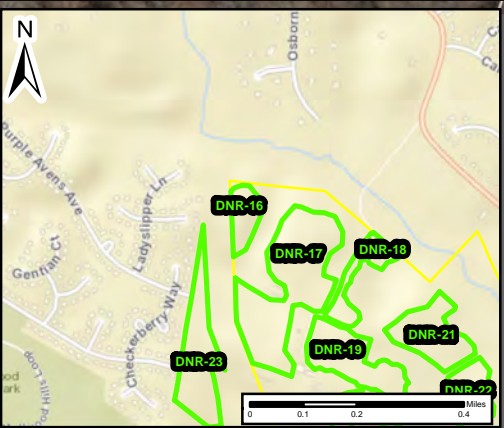
Potential Reforestation Planting Opportunities  
on DNR Properties  
**WOOD PROPERTY KEY MAP**  
**JULY 2020**














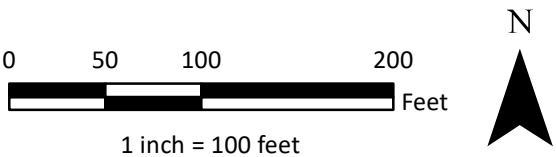


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LEGEND			
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 DNR Parcels	 NWI Waters	 FEMA 100 Yr Floodplain	
 Adjacent Parcel Boundary	 DNR Waters	 FEMA 500 Yr Floodplain	
 Site Access	 NWI Wetlands		



Potential Reforestation Planting Opportunities  
on DNR Properties  
DNR\_16: Wood Property  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
Total Planting Acreage: 3.6

Map 9 of 16

JULY 2020





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**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

DNR Planting Areas

DNR Parcels

Adjacent Parcel Boundary

Site Access

PlantingConflicts

NWI Waters

DNR Waters

NWI Wetlands

DNR Wetlands

FEMA 100 Yr Floodplain

FEMA 500 Yr Floodplain

0

100

200

400

Feet

1 inch = 200 feet

N

Potential Reforestation Planting Opportunities  
on DNR Properties  
DNR\_17: Wood Property  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
Total Planting Acreage: 20.1

Map 10 of 16

JULY 2020

495

270

MANAGED LANES STUDY

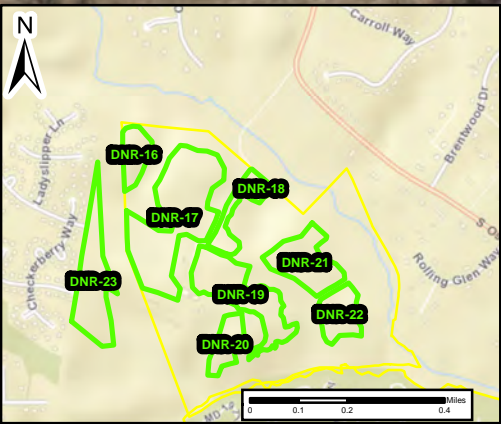
DRAFT, DELIBERATIVE, PRE-DECISIONAL

Page 151 of 345



**NOTE:**  
POTENTIAL REFORESTATION PLANTING AREAS SHOWN ON THE WOOD PROPERTY WERE DEVELOPED BASED ON THE ASSUMPTION THAT DNR WILL PURCHASE THE PROPERTY AT A LATER DATE.

PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREA POLYGONS WERE DEVELOPED VIA GOOGLE EARTH AND GIS DESKTOP REVIEW WITH DNR. PLANTING AREAS WILL BE ADJUSTED BASED ON ADDITIONAL COORDINATION WITH DNR AND FIELD REVIEWS. NO PLANTING IS PROPOSED WITHIN WETLANDS,



DNR-17

DNR-18

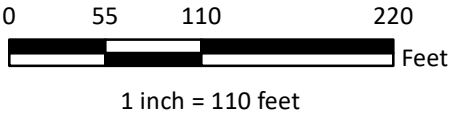
DNR-21

DNR-19

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- |                          |                   |                        |
|--------------------------|-------------------|------------------------|
| DNR Planting Areas       | PlantingConflicts | DNR Wetlands           |
| DNR Parcels              | NWI Waters        | FEMA 100 Yr Floodplain |
| Adjacent Parcel Boundary | DNR Waters        | FEMA 500 Yr Floodplain |
| Site Access              | NWI Wetlands      |                        |



**Potential Reforestation Planting Opportunities  
on DNR Properties**  
DNR\_18: Wood Property  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
**Total Planting Acreage: 4.1**

Map 11 of 16

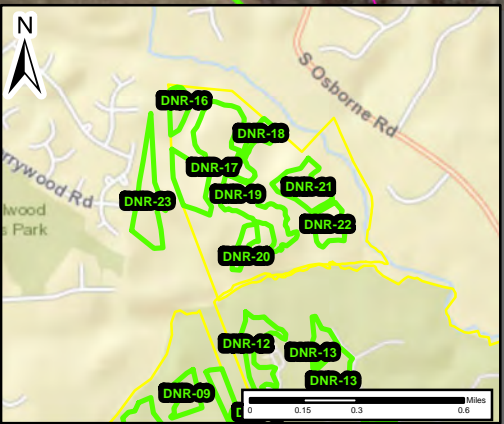
JULY 2020












MANAGED LANES STUDY

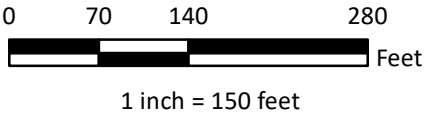


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LEGEND			
 DNR Planting Areas	 PlantingConflicts	 DNR Wetlands	
 DNR Parcels	 NWI Waters	 FEMA 100 Yr Floodplain	
 Adjacent Parcel Boundary	 DNR Waters	 FEMA 500 Yr Floodplain	
 Site Access	 NWI Wetlands		



**Potential Reforestation Planting Opportunities  
on DNR Properties**  
DNR\_19: Wood Property  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
**Total Planting Acreage: 11**

Map 12 of 16

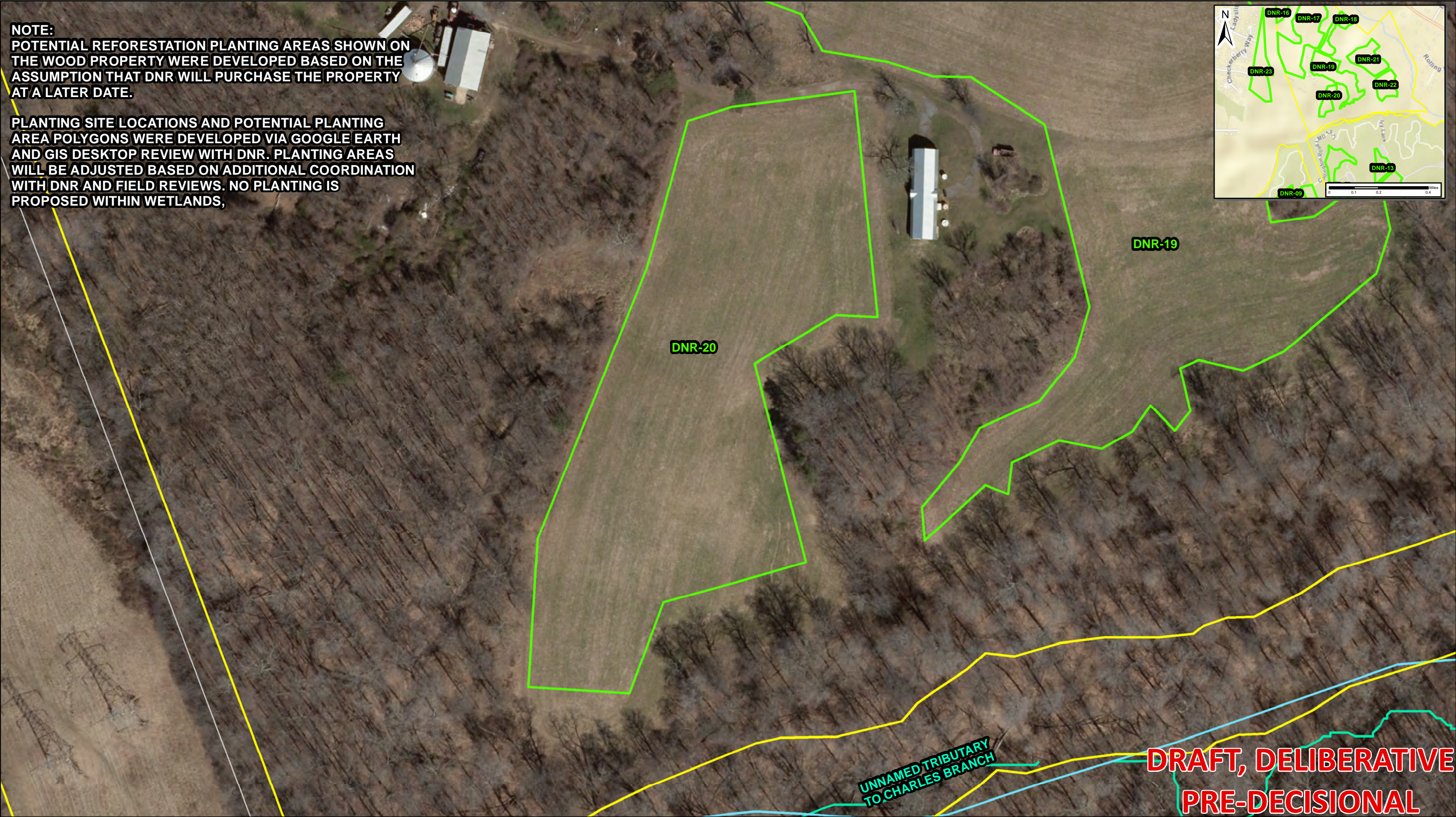
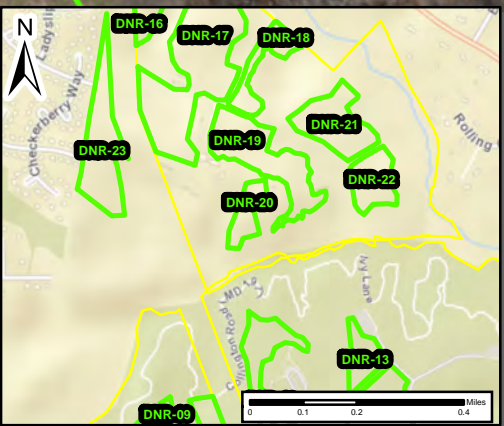
JULY 2020

**MANAGED  
LANES STUDY**

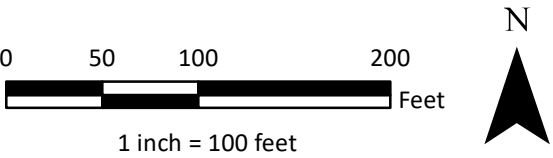


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LEGEND			
DNR Planting Areas	PlantingConflicts	DNR Wetlands	
DNR Parcels	NWI Waters	FEMA 100 Yr Floodplain	
Adjacent Parcel Boundary	DNR Waters	FEMA 500 Yr Floodplain	
Site Access	NWI Wetlands		



Potential Reforestation Planting Opportunities  
on DNR Properties  
DNR\_20: Wood Property  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
Total Planting Acreage: 3.3

Map 13 of 16

JULY 2020

**MANAGED LANES STUDY**



**NOTE:**  
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**DNR-18**

**DNR-21**

**DNR-19**

**DNR-22**

**CHARLES BRANCH**

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

DNR Planting Areas

DNR Parcels

Adjacent Parcel Boundary

Site Access

PlantingConflicts

NWI Waters

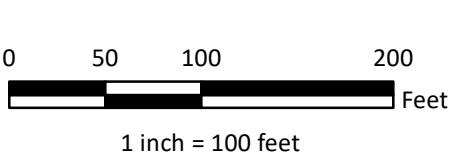
DNR Waters

NWI Wetlands

DNR Wetlands

FEMA 100 Yr Floodplain

FEMA 500 Yr Floodplain



**Potential Reforestation Planting Opportunities  
on DNR Properties**  
DNR\_21: Wood Property  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
**Total Planting Acreage: 7.7**

Map 14 of 16

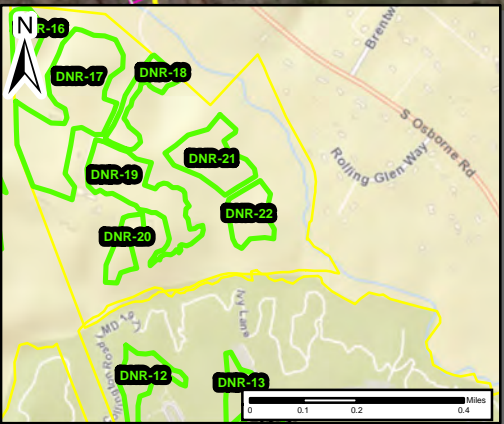
JULY 2020












**MANAGED  
LANES STUDY**

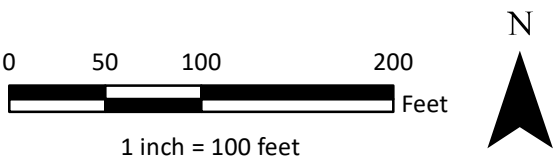


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LEGEND			
 DNR Planting Areas	 PlantingConflicts	 DNR Wetlands	
 DNR Parcels	 NWI Waters	 FEMA 100 Yr Floodplain	
 Adjacent Parcel Boundary	 DNR Waters	 FEMA 500 Yr Floodplain	
 Site Access	 NWI Wetlands		



**Potential Reforestation Planting Opportunities  
on DNR Properties**  
DNR\_22: Wood Property  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
**Total Planting Acreage: 4.8**

Map 15 of 16

JULY 2020

**MANAGED  
LANES STUDY**

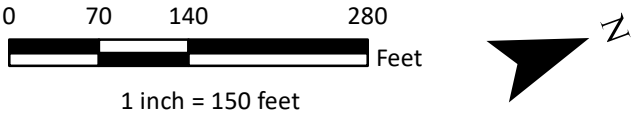


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LEGEND			
DNR Planting Areas	Planting Conflicts	DNR Wetlands	
DNR Parcels	NWI Waters	FEMA 100 Yr Floodplain	
Adjacent Parcel Boundary	DNR Waters	FEMA 500 Yr Floodplain	
Site Access	NWI Wetlands		



Potential Reforestation Planting Opportunities  
on DNR Properties  
DNR\_23: Wood Property  
MDE 6 Digit Watershed: 021311 Patuxent River Watershed  
Total Planting Acreage: 10

Map 16 of 16

JULY 2020

**MANAGED LANES STUDY**





**I-495 & I-270 Managed Lanes Study**  
**Potential Reforestation Mitigation Site Field Review at Seneca Creek State Park**  
**Berryville Rd Planting Site**  
**February 5, 2020 @ 10:00am**

A field review meeting was conducted on February 5, 2020 with Maryland Department of Natural Resources (DNR) to discuss potential planting opportunities for reforestation mitigation credits needed for the I-495 & I-270 Managed Lanes Study (MLS). A summary of the topics discussed at the meeting follows.

### Introductions

Participants met at a Seneca Creek State Park parcel located near 14601 Berryville Road, Darnestown, Maryland 20874. The meeting began with introductions, followed by a brief summary of the reforestation mitigation process and credit needs for this project by Greg O'Hare. Shea Niemann, Seneca Creek State Park Manager provided an overview of the site located within the Washington Metropolitan watershed in lower Montgomery County, just north of the Potomac River. A majority of the 30.2-acre parcel is forested, with a mowed area available for planting adjacent to the private residence at 14601 Berryville Road. The group then walked the site and discussed potential planting opportunities onsite.

### Planting Opportunities

- Shea and Erik indicated that a majority of the mowed area (approximately 5.99 acres) is available for reforestation planting.
- A 12-foot access road must remain unplanted for routine maintenance.
- Preserve existing trees onsite that are in reasonable condition.
- Coordination with MHT may be required for planting adjacent to historic structures (barn at the southeastern section of the planting area).
- Shea and Erik indicated that there are infill planting opportunities on the adjacent parcel across Berryville Rd. Concentrate infill planting near entrance to site from Berryville Rd (~2.79 acres).
  - Follow up research indicated the site was already planted under the Million Dollar Tree Planting Initiative and is currently managed as a TMDL site, so it cannot be used for Reforestation Law mitigation

### Action Items

- Shea will identify additional potential planting opportunities at Monocacy Natural Resource Management Area (NRMA) and Patuxent River State Park.
- RK&K will develop mapping that shows potential planting areas, access areas, and site notes for DNR to review and approve. Mapping is attached.

### Attendees:

Name	Agency	Email
Shea Niemann	Maryland Department of Natural Resources	<a href="mailto:shea.niemann@maryland.gov">shea.niemann@maryland.gov</a>
Erik Ledbetter	Maryland Department of Natural Resources	<a href="mailto:Erik.ledbetter@maryland.gov">Erik.ledbetter@maryland.gov</a>
Greg O'Hare	P3/RK&K	<a href="mailto:gohare@rkk.com">gohare@rkk.com</a>
Anita Alexander	P3/RK&K	<a href="mailto:aalexander@rkk.com">aalexander@rkk.com</a>





## Managed Lanes Study

## DNR Forest Mitigation Field Review

February 5, 2020

### SIGN IN SHEET

Name	Agency/Company	Phone Number	Email Address
Shea Niemann	Maryland Department of Natural Resources	(301) 924-2127 – work	<a href="mailto:shea.niemann@maryland.gov">shea.niemann@maryland.gov</a>
Erik Ledbetter	Maryland Department of Natural Resources	(301) 924-2127 – work	<a href="mailto:erik.ledbetter@maryland.gov">erik.ledbetter@maryland.gov</a>
Greg O'Hare	RK&K	(410) 462-9165 – work	<a href="mailto:gohare@rkk.com">gohare@rkk.com</a>
Anita Alexander	RK&K	(410) 462-9358 – work	<a href="mailto:aalexander@rkk.com">aalexander@rkk.com</a>



**NOTE:**  
NO WETLANDS OR WATERWAYS ARE MAPPED WITHIN  
THE PROPOSED REFORESTATION AREA ACCORDING TO  
NWI AND DNR MAPPING, AND NONE WERE IDENTIFIED  
PER FIELD INVESTIGATION CONDUCTED BY  
RK&K ON FEBRUARY 5, 2020.



BERRYVILLE RD  
ST OF MD - DEPT OF FORESTS & PKS  
ACCOUNT NUMBER 02884467  
30.2 ACRES

PLANTABLE AREA -  
5.99 ACRES

PRESERVE EXISTING TREES  
IN REASONABLE CONDITION

EXISTING TMDL SITE # 150016UT  
NOT AVAILABLE FOR PLANTING

150016UT

EXTEND PLANTING AREA  
ONTO ADJACENT DNR OWNED  
PARCEL

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

DNR Parcel Area

Adjacent Parcel Boundary

Existing TMDL Site

Potential Wetland Area

Proposed Reforestation Area

Not Available for Planting

Site Access Road (20 feet wide)

Preserved Access Path (12 feet wide)

0 95 190 380  
Feet

N

**Potential Berryville Rd Reforestation  
Site at Seneca Creek State Park**







Larry Hogan, Governor  
 Boyd Rutherford, Lt. Governor  
 Jeannie Haddaway-Riccio, Secretary

August 21, 2020

Kate Gordon  
 Consultant Reviewer  
 Maryland Department of Transportation  
 State Highway Administration  
 I-495 & I-270 P3 Office  
 707 North Calvert St.  
 Mail Stop P-601  
 Baltimore, MD 21202

**RE: DNR Comments: I-270 & I-495 MLS Mitigation Plantings at Seneca Creek State Park PIF; 2020DNR179**

Ms. Gordon:

Be advised that the Maryland Department of Natural Resources (DNR) Environmental Review Program (ERP) has completed the general review of the above referenced project located at Seneca Creek State Park in Montgomery County, Maryland, which has been reviewed by DNR's team of interdisciplinary resources experts. Below are DNR's comments at this time. Additional materials and coordination is needed before this project is granted approval:

**DNR – Maryland Park Service (MPS) & DNR – Forest Service (FS):**

1. The PIF submitted for DNR Internal Review is missing valuable information. DNR requests additional information regarding MDOT SHA's proposed site preparations, tree species, planting techniques, and maintenance practices.
2. DNR recently enacted a new mitigation policy (*Attachment A*) for mitigation projects located on DNR Land. All proposed I-270 & I-495 MLS mitigation planting sites will have to be properly vetted by the mitigation policy before any sites are granted approval. Please note Section IV.1 in DNR's mitigation policy:

*"All requests for the use of DNR lands for the purpose of mitigating environmental impacts from other State agencies will be considered, but will only be granted when such use would be in the best interest of the Land Management Unit's management and public use objectives. Furthermore, any requests that are inconsistent with the Department's natural resource management goals and objectives will be denied."*

3. DNR was notified by the Maryland Department of Transportation (MDOT) State Highway Administration (SHA) on June 29, 2020 via email (*Attachment B*) that MDOT SHA may have to reduce their level of services at MDOT SHA tree planting sites on DNR Lands in response to

Tawes State Office Building – 580 Taylor Avenue – Annapolis, Maryland 21401  
 410-260-8DNR or toll free in Maryland 877-620-8DNR – [dnr.maryland.gov](http://dnr.maryland.gov) – TTY Users Call via the Maryland Relay



COVID-19 budget cuts. This situation has made DNR question the dependability of current and future maintenance agreements with MDOT SHA for tree planting projects on DNR land. Long term site maintenance is a critical component to the I-270 & I-495 MLS mitigation plantings. Discussions are needed between DNR and MDOT SHA to generate a solution that secures long term maintenance for this project.

#### **DNR – Land Acquisition and Planning (LAP):**

1. This project will be outside of the section 6(f) area of Seneca Creek State Park and there are no concerns per federal Land and Water Conservation Fund compliance with this project.

#### **Maryland Historic Trust (MHT):**

1. The Federal Highway Administration (FHWA) and MDOT SHA will be leading coordination with MHT regarding the Section 106 process for the I-495 & I-270 MLS project. The consultation between FHWA/MDOT SHA and MHT for the overall undertaking will include an analysis of all off-site mitigation. Therefore, MHT has no comments at this time.

In summary, additional review materials have been requested by DNR. Please provide DNR information regarding MDOT SHA's proposed site preparations, tree species, planting techniques, and maintenance practices. All proposed mitigation sites need to be vetted by DNR's new mitigation policy prior to approval. Finally, discussions are needed between DNR and MDOT SHA to discover a way to guarantee site maintenance funding is secure for the agreed upon maintenance period. Further review of this project and discussions with MDOT SHA are required before approval is granted. Please continue to keep an open dialogue with DNR. Please contact Chris Homeister at [Christopher.Homeister@maryland.gov](mailto:Christopher.Homeister@maryland.gov) or by phone at 410-260-8750 if you have any questions or comments regarding this review.

Sincerely,



Chris Homeister, Environmental Review Program

Cc: Mary Owens  
LeeAnne Chandler  
Shea Niemann  
Marian Honeczy  
Jack Perdue  
Andrew Mengel  
Beth Cole  
Tony Redman  
Martha Stauss

Attachment A: DNR Mitigation Policy

Attachment B: SHA Reduced Level of Services Email



## Maryland Department of Natural Resources

**Subject:**                **Requests and conditions for mitigation projects on DNR land**

**Policy Number:**    **2019:03**

**Effective Date:**

**Approved:**

**Date:**

### **I.      Purpose**

The purpose of this policy is to provide a framework for evaluating and approving mitigation projects proposed for Department of Natural Resources (DNR) land by non-DNR entities for regulated environmental impacts that occur outside of lands owned and managed by DNR. The goal of this policy is to ensure that any mitigation projects allowed on DNR land meet the Department's standards for ecological benefit and are consistent with the Land Management Unit's management and public use objectives.

### **II.     Definition**

Environmental mitigation or compensatory mitigation are terms used to describe projects or programs intended to offset known regulated impacts to an existing natural resource such as a stream, wetland, or endangered species.

### **III.    Scope**

This policy applies Department-wide except for Forest Conservation Act mitigation requests which are addressed in Policy Number 2003:01 Forest Conservation Implementation and Mitigation on DNR Lands.

### **IV.    Policy**

It is the policy of the Department that the following represents the framework that will guide consideration of DNR lands for mitigating environmental impacts. If a proposed project could generate Total Maximum Daily Load credits, the project will be reserved for restoration at the discretion of the Department. Requests will be granted in the following scenarios only after the requesting party has provided sufficient proof to the Department that opportunities in the private sector have been adequately explored. Any requests for a mitigation project on DNR lands must be submitted to the Land Management Unit Internal Review point of contact with management responsibility for the property in question (see the annual "DNR Owned Lands Acreage" report to identify the appropriate unit).

#### **1.    Requests from State Agencies**

All requests for the use of DNR lands for the purpose of mitigating environmental impacts from other State agencies will be considered, but will only be granted when such use would be in the best interest of the Land Management Unit's management



and public use objectives. Furthermore, any requests that are inconsistent with the Department's natural resource management goals and objectives will be denied.

2. Requests from Counties, Municipalities or other Local Governments  
Requests for impacts not occurring on DNR lands will not be considered.
3. Requests from the Private Sector  
Requests for impacts not occurring on DNR lands will not be considered.

#### **V. Procedures for evaluating requests**

1. The Land Management Unit will determine if there are any projects that could be satisfied by the proposed mitigation and are consistent with land and natural resource management goals and objectives of the Department. Based on the Land Management Unit's determination, the unit may deny the project or accept it for further review. If accepted, the project shall be subject to the Department's Internal Review Process.
2. If the Land Management Unit accepts the project, the requesting agency must adhere to the following criteria.
  - a. Requesting agency must show due diligence in exhausting all other options before submitting a formal mitigation request to the Department. This shall consist of, at a minimum:
    - i. documentation of alternatives analysis, avoidance and minimization.
    - ii. documentation of alternative landowner contact and refusal.
  - b. Project designs must achieve natural resource, aesthetic and public use outcomes as established by the Department for the specific project.

#### **VI. Conditions for implementation**

1. Project designs must be approved by the Department before submitting a permit application(s) to the regulatory agency and, additionally, prior to construction.
2. Subsequent design modifications must also be approved by the Department during all phases of planning and construction.
3. The Department will conduct a final site inspection to ensure the project is completed in accordance with approved drawing and specifications and meets the Department's management goals. This will be documented via correspondence from the Department to the project sponsor.
4. The project sponsor will bear responsibility for project maintenance requirements and guarantees according to the terms of the permit and in coordination with the Land Management Unit and other DNR staff for a minimum period of five (5) years following construction.





Christopher Homeister -DNR- &lt;christopher.homeister@maryland.gov&gt;

---

## Reduced Level of Service for DNR MPS - MDOT SHA Partnership Sites

---

**Karen Coffman** <KCoffman@mdot.maryland.gov>

Mon, Jun 29, 2020 at 8:59 PM

To: LeeAnne Chandler -DNR- &lt;leeanne.chandler@maryland.gov&gt;, Christopher Homeister &lt;christopher.homeister@maryland.gov&gt;

Cc: Ryan Cole &lt;RCole@mdot.maryland.gov&gt;, Kevin Wilsey &lt;KWilsey@mdot.maryland.gov&gt;

Hello LeeAnne and Christopher,

I apologize for not getting back to you sooner. As we have moved through FY20 towards FY21, it has become apparent that the State budget shortfall due to COVID-19 response efforts and reduced transportation related revenues due to sheltering-in-place orders has had a significant impact on MDOT SHA budgets for the next two years. In preparing for the coming years, MDOT SHA has eliminated all State funded spending where possible, and we anticipate this to impact our ability to meet commitments to our partners during this time. The impacts to the MDOT SHA - DNR MPS partnerships are indicated below.

The last year or so, MDOT SHA Office of Environmental Design has been working to establish a comprehensive adaptive management program that would address our many off-site restoration, mitigation, and environmental banking commitments using a variety of contracting mechanisms and both federal and State funding sources. Unfortunately, before we could implement new methods for managing these assets, the COVID-19 crisis has interrupted this program development indefinitely. However, in order to address your immediate concerns, we will investigate the possibility of issuing a federally funded small procurement contract. This will take a few weeks to resolve.

Another partnership area impacted by the budget shortfalls are reimbursements and land use payments identified in various executed PTAs. These will be deferred until we can program the funds which will likely be a few years down the road. Sonal Ram spoke to Matt Flemming related to this deferment.

Lastly, concerning finalizing our agreements/PTAs as site construction is completed, our MS4 permit expires October 8, 2020, and we may not have the financial resources in place to develop and execute final PTAs for our joint partnership restoration projects before that time. Regardless of this, MDOT SHA will claim the credits associated with these projects in order to close out MDOT SHA restoration compliance with the October 2020 MS4 Annual Report and will seek to finalize the PTAs at the first opportunity. We also see the need to renegotiate the tree establishment agreement as there are sites that both parties would like to exclude, and MDOT SHA would like to revisit the vegetation management expectations as our adaptive management program is developed.

We appreciate your understanding of the current budget constraints and look forward to continuing the discussion.

Karen

*Karen Coffman*

Chief, Water Programs Division

Office of Environmental Design

MDOT State Highway Administration

410-456-3317 (Mobile)



[kcoffman@mdot.maryland.gov](mailto:kcoffman@mdot.maryland.gov)

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**Anita Alexander**

---

**Subject:** RE: Riffleford Potential Planting Site**From:** Shea Niemann -DNR- <[shea.niemann@maryland.gov](mailto:shea.niemann@maryland.gov)>**Sent:** Monday, May 4, 2020 1:18 PM**To:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>**Cc:** Mary Owens -DNR- <[mary.owens@maryland.gov](mailto:mary.owens@maryland.gov)>; Erik Ledbetter ([erik.ledbetter@maryland.gov](mailto:erik.ledbetter@maryland.gov)) <[erik.ledbetter@maryland.gov](mailto:erik.ledbetter@maryland.gov)>; Christopher Homeister -DNR- <[christopher.homeister@maryland.gov](mailto:christopher.homeister@maryland.gov)>; Chrissy Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Caryn Brookman <[CBrookman@mdot.maryland.gov](mailto:CBrookman@mdot.maryland.gov)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>**Subject:** Re: Riffleford Potential Planting Site

I figured that spot wouldn't work but worth a shot.

Thanks

Shea



**Shea Niemann**  
 Park Manager  
 Maryland Park Service  
 Seneca Creek State Park  
 Patuxent River State Park  
 Monocacy NRMA  
 Department of Natural Resources  
[11950 Clopper Rd Gaithersburg, Md 20878](mailto:shea.niemann@maryland.gov)

[301-924-2127](tel:301-924-2127) (office)  
[410-387-3133](tel:410-387-3133) (cell)  
[shea.niemann@maryland.gov](mailto:shea.niemann@maryland.gov)

Click [here](#) to complete a three question customer experience survey.

On May 1, 2020, at 12:26 PM, Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)> wrote:

Hi Shea – Thank you for providing the mapping for this potential planting site (~2.6 acres) at Seneca Creek State Park. I visited the site last week and a large portion of the area is covered in autumn olive, with mile-a-minute, Japanese stiltgrass, and Japanese honeysuckle also present. We're not going to pursue this site as a viable planting option due to its small size and high invasive species cover, which would require extensive control measures to establish native reforestation plantings. See attached site photos.

Thank you for all of your assistance in locating potential planting sites in Seneca Creek and Patuxent River State Parks. Since we've completed the review of all the potential sites you have available, we plan



to submit Project Information Forms (PIF) to Chris Homeister soon to start the internal DNR review process for one site in Seneca Creek and one site in Patuxent River State Park. We'll copy you on the PIF submittals to Chris. Have a good weekend!

Thanks,

Greg

---

**GREG O'HARE, LPF, PWS, CA**  
Manager, Natural Resources

<image001.png>  
700 East Pratt Street, Suite 500  
Baltimore, MD 21202

410.728.2900 P | 410.462.9165 D | 410.245.9015 C  
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<image005.png>

<image006.jpg>

**From:** Shea Niemann -DNR- <[shea.niemann@maryland.gov](mailto:shea.niemann@maryland.gov)>  
**Sent:** Thursday, April 16, 2020 1:17 PM  
**To:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>  
**Cc:** Mary Owens -DNR- <[mary.owens@maryland.gov](mailto:mary.owens@maryland.gov)>; Erik Ledbetter ([erik.ledbetter@maryland.gov](mailto:erik.ledbetter@maryland.gov)) <[erik.ledbetter@maryland.gov](mailto:erik.ledbetter@maryland.gov)>; Christopher Homeister -DNR- <[christopher.homeister@maryland.gov](mailto:christopher.homeister@maryland.gov)>; Chrissy Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Caryn Brookman <[CBrookman@mdot.maryland.gov](mailto:CBrookman@mdot.maryland.gov)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
**Subject:** Re: I-495/270 MLS Reforestation Meeting Minutes

Here is a map. Its a pretty small area but there may be some options for filling in some of the surrounding area.

Thanks  
Shea

On Wed, Apr 15, 2020 at 4:07 PM Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)> wrote:

Thanks Shea!



---

**GREG O'HARE, LPF, PWS, CA****Manager, Natural Resources**

&lt;image001.png&gt;

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[www.rkk.com](http://www.rkk.com)**Responsive People | Creative Solutions**

&lt;image002.jpg&gt;

&lt;image003.jpg&gt;

&lt;image004.jpg&gt;

&lt;image005.png&gt;

&lt;image006.jpg&gt;

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**From:** Shea Niemann -DNR- <[shea.niemann@maryland.gov](mailto:shea.niemann@maryland.gov)>**Sent:** Wednesday, April 15, 2020 3:34 PM**To:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>**Cc:** Mary Owens -DNR- <[mary.owens@maryland.gov](mailto:mary.owens@maryland.gov)>; Erik Ledbetter (<[erik.ledbetter@maryland.gov](mailto:erik.ledbetter@maryland.gov)>  
<[erik.ledbetter@maryland.gov](mailto:erik.ledbetter@maryland.gov)>; Christopher Homeister -DNR-  
<[christopher.homeister@maryland.gov](mailto:christopher.homeister@maryland.gov)>; Chrissy Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Caryn  
Brookman <[CBrookman@mdot.maryland.gov](mailto:CBrookman@mdot.maryland.gov)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Anita Alexander  
<[aalexander@rkk.com](mailto:aalexander@rkk.com)>**Subject:** Re: I-495/270 MLS Reforestation Meeting Minutes

My apologies I totally forgot. I will send out tomorrow





**Shea Niemann**  
 Park Manager  
 Maryland Park Service  
 Seneca Creek State Park  
 Patuxent River State Park  
 Monocacy NRMA  
 Department of Natural Resources  
 11950 Clopper Rd Gaithersburg, Md 20878

[301-924-2127](tel:301-924-2127) (office)  
[410-387-3133](tel:410-387-3133) (cell)  
[shea.niemann@maryland.gov](mailto:shea.niemann@maryland.gov)

Click [here](#) to complete a three question customer experience survey.

On Apr 15, 2020, at 2:56 PM, Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)> wrote:

Hi Shea – Following up on our recent phone call to see when you’ll be able to send me a google map pin or other mapping for the additional potential Seneca Creek SP reforestation site off of Riffleford Road.

Thanks and stay safe.

Greg

---

**GREG O’HARE, LPF, PWS, CA**

**Manager, Natural Resources**

<image001.png>

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<image003.jpg>

<image004.jpg>

<image005.png>

<image006.jpg>

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**From:** Greg OHare  
**Sent:** Thursday, March 12, 2020 8:24 AM  
**To:** [shea.niemann@maryland.gov](mailto:shea.niemann@maryland.gov)  
**Cc:** Mary Owens -DNR- <[mary.owens@maryland.gov](mailto:mary.owens@maryland.gov)>; Erik Ledbetter  
([erik.ledbetter@maryland.gov](mailto:erik.ledbetter@maryland.gov)) <[erik.ledbetter@maryland.gov](mailto:erik.ledbetter@maryland.gov)>; Christopher  
Homeister -DNR- <[christopher.homeister@maryland.gov](mailto:christopher.homeister@maryland.gov)>; Chrissy Brandt  
<[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Caryn Brookman <[CBrookman@mdot.maryland.gov](mailto:CBrookman@mdot.maryland.gov)>;  
Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
**Subject:** I-495/270 MLS Reforestation Meeting Minutes

Hi Shea – See link below to minutes from our two field meetings at potential I-495/270  
MLS reforestation sites in Patuxent River and Seneca Creek State Parks. Please let us  
know if you have any comments on the minutes and mapping, and if you'll have any  
additional potential sites for us to review.



[https://rkkllp.sharepoint.com/:f:/g/Eoi660eP2Z5FjxuY-ch9pQ4BL9ydB\\_rZXdqfholJRMzcrA?e=ukJNsY](https://rkkllp.sharepoint.com/:f:/g/Eoi660eP2Z5FjxuY-ch9pQ4BL9ydB_rZXdqfholJRMzcrA?e=ukJNsY)

Thank you,

Greg

---

**GREG O'HARE, LPF, PWS, CA**

**Manager, Natural Resources**

<image001.png>

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<image002.jpg>

<image003.jpg>

<image004.jpg>

<image005.png>



<image006.jpg>

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--



**Shea Niemann**

Park Manager  
Maryland Park Service  
Seneca Creek State Park  
Patuxent River State Park  
Monocacy NRMA  
Department of Natural Resources  
11950 Clopper Rd Gaithersburg, Md 20878

301-924-2127 (office)  
410-387-3133 (cell)  
[shea.niemann@maryland.gov](mailto:shea.niemann@maryland.gov)

Click [here](#) to complete a three question customer experience survey.

<DSCN6659.JPG>

<DSCN6671.JPG>

<Riffle Ford SHA Possible planting.PNG>



**From:** [Hinder, Seth](#)  
**To:** [lggregory@aacc.edu](mailto:lggregory@aacc.edu)  
**Cc:** [Marra, Michael](#); [Anita Alexander](#); [Kate Gordon](#); [gohare@rkk.com](mailto:gohare@rkk.com); [cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)  
**Subject:** Follow Up: I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities  
**Date:** Monday, April 13, 2020 9:28:34 AM  
**Attachments:** [image002.png](#)  
[image003.png](#)

---

Good morning Mr. Gregory,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in Anne Arundel Community College. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Seth Hinder

Consultant for Maryland Department of Transportation, State Highway Administration

email: [shinder@cemsience.com](mailto:shinder@cemsience.com)

cell: (410) 983-1239

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

---

 <small>Applying Practical Science to Improve Communities</small>	<p><b>Seth Hinder</b> <b>Environmental Scientist</b> Resource Assessment &amp; Permitting <a href="mailto:shinder@cemsience.com">shinder@cemsience.com</a> cell: (410) 983-1239</p>	 <small>est. 1993</small>
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**From:** [Marra, Michael](#)  
**To:** [recadmin@aacounty.org](mailto:recadmin@aacounty.org)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Thursday, August 13, 2020 1:51:00 PM  
**Attachments:** [image005.png](#)  
[image006.png](#)  
[image008.png](#)  
[image009.png](#)

Good afternoon,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in on property owned by Anne Arundel Dept. of Recreation and Parks. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

 Applying Practical Science to Improve Communities	<b>Michael Marra</b> <b>Environmental Scientist</b> Resource Assessment & Permitting <a href="mailto:mmarra@cemscience.com">mmarra@cemscience.com</a> cell: (302) 290-9245	 est. 1993
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**From:** Marra, Michael  
**Sent:** Tuesday, February 18, 2020 1:06 PM  
**To:** [recadmin@aacounty.org](mailto:recadmin@aacounty.org)  
**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>;  
[gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aaalexander@rkk.com](mailto:aaalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Subject:** I -495/I-270 MLS Reforestation Mitigation



To whom it may concern,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Anne Arundel County Department of Recreation and Parks. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.


For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
cell (302) 290 9245

---

 <p><b>CEM</b> Applying Practical Science to Improve Communities</p>	<p><b>Michael Marra</b> <b>Environmental Scientist</b> Resource Assessment &amp; Permitting <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a> cell: (302) 290-9245</p>	 <p><b>25</b> CEM est. 1993</p>
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**Hinder, Seth**

**From:** Seaman-Crawford, Lisa A <LSEAMAN-CRAWFORD@AACPS.org>  
**Sent:** Thursday, February 06, 2020 3:57 PM  
**To:** Hinder, Seth  
**Subject:** RE: I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities

Seth – The school system is or will utilizing all its additional acreage for school system projects. We have several high, middle and elementary schools under design and/or construction that require reforestation. Lisa

Lisa Seaman-Crawford  
 Anne Arundel County Public Schools  
 Director of Facilities  
 9034 Ft. Smallwood Road  
 Pasadena, MD 21122  
 (410) 439-5658 desk  
 (410) 271-8823 cell

**From:** Hinder, Seth <SHinder@cemsience.com>  
**Sent:** Thursday, February 6, 2020 1:01 PM  
**To:** Seaman-Crawford, Lisa A <LSEAMAN-CRAWFORD@AACPS.org>  
**Subject:** I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities

**CAUTION: This email originated from outside of AACPS. Do not click links or open attachments unless you recognize the sender and know the content is safe.**

Dear Lisa Seaman-Crawford,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

Thank you for your time and com

Seth Hinder  
 Consultant for Maryland Departm  
 Email: [shinder@cemsience.com](mailto:shinder@cemsience.com)  
 Cell: (410) 983-1239



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**From:** [Marra, Michael](#)  
**To:** ["phall@bladensburgmd.gov"](mailto:phall@bladensburgmd.gov)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](mailto:cbrandt@mdot.maryland.gov); [gohare@rkk.com](mailto:gohare@rkk.com); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Thursday, April 02, 2020 8:50:00 AM  
**Attachments:** [image002.png](#)  
[image003.png](#)  
[image005.png](#)  
[image006.png](#)

Good morning Mr. Hall

I am following up once again regarding potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the Town of Bladensburg. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting.

Thank you again for your time and consideration,



Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)


cell: (302) 290-9245


For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

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**From:** Marra, Michael

**Sent:** Friday, February 07, 2020 1:44 PM



**To:** 'phall@bladensburg.net' <phall@bladensburg.net>

**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>; gohare@rkk.com; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>

**Subject:** I-495/I-270 MLS Reforestation Mitigation

Dear Mr. Hall,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the Town of Bladensburg. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

---

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## Anita Alexander

---

**From:** Greg OHare  
**Sent:** Thursday, November 14, 2019 8:07 AM  
**To:** Anita Alexander; Kate Gordon  
**Subject:** RE: {EXTERNAL}; RE: mitigation

FYI.

I reconfirmed with Joe Meinert yesterday that the City of Bowie does not have any reforestation sites available for the I-495/270 Project to plant...even sites less than 5 acres.

---

**GREG O'HARE, LPF, PWS, CA**  
 Manager, Natural Resources



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---

**From:** Greg OHare  
**Sent:** Wednesday, July 10, 2019 11:14 AM  
**To:** Anita Alexander <aalexander@rkk.com>; Alex Nussbaum <anussbaum@rkk.com>  
**Subject:** FW: {EXTERNAL}; RE: mitigation

FYI...City of Bowie does not have any reforestation sites available for the I-495/270 Project. See below.

Thanks,

Greg

---

**GREG O'HARE, LPF, PWS, CA**  
 Manager, Natural Resources



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---

**From:** Joe Meinert [<mailto:jmeinert@cityofbowie.org>]  
**Sent:** Wednesday, July 10, 2019 10:36 AM  
**To:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>  
**Subject:** RE: {EXTERNAL}: RE: mitigation

Greg – Sorry, we checked and did not come up with any sites this large.

Joseph M. Meinert, AICP  
 Director of Planning and Community Development  
 City of Bowie  
 15901 Excalibur Road  
 Bowie, MD 20716  
 Phone: 301-809-3047  
 FAX: 301-809-2315

---

**From:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>  
**Sent:** Wednesday, July 3, 2019 1:49 PM  
**To:** Joe Meinert <[jmeinert@cityofbowie.org](mailto:jmeinert@cityofbowie.org)>  
**Subject:** RE: {EXTERNAL}: RE: mitigation

Joe – Do you have any 5 or 10 acre open areas that could be consolidated into a larger planting contract?

Thanks!

Greg

---

**GREG O'HARE, LPF, PWS, CA**  
 Manager, Natural Resources



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**From:** Joe Meinert [<mailto:jmeinert@cityofbowie.org>]  
**Sent:** Wednesday, July 03, 2019 8:33 AM  
**To:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>  
**Subject:** RE: {EXTERNAL}: RE: mitigation

At this point, we do not own any large open lands similar to the Entzian farm. So I guess that means we are out of consideration.



Joseph M. Meinert, AICP  
 Director of Planning and Community Development  
 City of Bowie  
 15901 Excalibur Road  
 Bowie, MD 20716  
 Phone: 301-809-3047  
 FAX: 301-809-2315

---

**From:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>  
**Sent:** Wednesday, July 3, 2019 6:18 AM  
**To:** Joe Meinert <[jmeinert@cityofbowie.org](mailto:jmeinert@cityofbowie.org)>  
**Subject:** {EXTERNAL}: RE: mitigation

Hi Joe – There will be a large reforestation mitigation commitment...We're looking for hundreds of acres of reforestation area.

Thanks,

Greg

---

**GREG O'HARE, LPF, PWS, CA**  
 Manager, Natural Resources



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 Baltimore, MD 21202

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**From:** Joe Meinert [<mailto:jmeinert@cityofbowie.org>]  
**Sent:** Tuesday, July 02, 2019 10:02 AM  
**To:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>  
**Subject:** mitigation

Greg – Got your message. How many acres are you looking for to mitigate? Knowing that will help me determine if the City has any public land left.

Joseph M. Meinert, AICP  
 Director of Planning and Community Development  
 City of Bowie  
 15901 Excalibur Road  
 Bowie, MD 20716  
 Phone: 301-809-3047  
 FAX: 301-809-2315



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**From:** [Hinder, Seth](#)  
**To:** [dwilliford@bowiestate.edu](mailto:dwilliford@bowiestate.edu)  
**Cc:** [Marra, Michael](#); [Anita Alexander](#); [Kate Gordon](#); [gohare@rkk.com](mailto:gohare@rkk.com); [cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)  
**Subject:** Follow Up: I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities  
**Date:** Monday, April 13, 2020 9:25:12 AM  
**Attachments:** [image002.png](#)  
[image003.png](#)

---

Good morning Mr. Williford,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in Bowie State University. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Seth Hinder

Consultant for Maryland Department of Transportation, State Highway Administration

email: [shinder@cemsience.com](mailto:shinder@cemsience.com)

cell: (410) 983-1239

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

---

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**From:** [Molines, Karyn L.](#)  
**To:** [Marra, Michael](#)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](#); [gohare@rkk.com](#); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Monday, February 10, 2020 3:30:24 PM  
**Attachments:** [image002.png](#)  
[image003.png](#)

---

Mike,

Within Parks & Recreation, we are not able to identify 5 acres for tree plantings.

If you have not contacted Calvert County Planning & Zoning <http://md-calvertcounty.civicplus.com/550/Environmental> regarding any outstanding planting needs, that would be my suggestion.

**Karyn Molines | Natural Resources Division Chief**

Calvert County Government Department of Parks & Recreation

Natural Resources Division

Office: 410-535-5327

[www.calvertcountymd.gov/NaturalResources](http://www.calvertcountymd.gov/NaturalResources)

---

**From:** Marra, Michael <mmarra@cemscience.com>

**Sent:** Monday, February 3, 2020 3:13 PM

**To:** Molines, Karyn L. <Karyn.Molines@calvertcountymd.gov>

**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>; gohare@rkk.com; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>

**Subject:** I -495/I-270 MLS Reforestation Mitigation

Dear Ms. Molines,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Calvert County Department of Recreation & Park . We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.



For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

---



**Michael Marra**  
**Environmental Scientist**  
Resource Assessment & Permitting  
[mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
cell: (302) 290-9245



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**From:** [Hinder, Seth](#)  
**To:** ["PowersT@calvertnet.k12.md.us"](mailto:PowersT@calvertnet.k12.md.us)  
**Subject:** I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities  
**Date:** Thursday, February 06, 2020 1:03:00 PM  
**Attachments:** [image002.jpg](#)  
[image004.png](#)  
[image006.png](#)

Dear Thomas Powers,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Calvert County Public Schools. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Seth Hinder

Consultant for Maryland Department of Transportation, State Highway Administration

Email: [shinder@cemscience.com](mailto:shinder@cemscience.com)

Cell: (410) 983-1239

CEM\_Logo\_FullMetal



**Seth Hinder**

**Staff Scientist**

Resource Assessment & Permitting

[shinder@cemscience.com](mailto:shinder@cemscience.com)

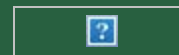
cell: (410) 983-1239





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**From:** [Rob Robinson](#)  
**To:** [Kate Gordon](#)  
**Cc:** [Dennis Enslinger](#); [Greg OHare](#); [CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)  
**Subject:** RE: I-495/I-270 MLS Reforestation Mitigation  
**Date:** Wednesday, April 8, 2020 12:36:48 PM

---

Hi Kate,

This is a somewhat difficult question to answer based upon the City's experience related to the Watkins Mill Interchange. In that situation SHA needed land that was under a City Forest Conservation Easement. The State, not being a party to the Conservation Easement and the project being a linear project exempt from forest conservation, made our easement sort of null and void to them. The State paid for the land taken and based upon their policy of 1:1 tree replacement first being on-site, followed by within the City; then within the watershed; followed lastly by where they can replant wherever, from their perspective the acreage under easement wasn't lost "just relocated". We looked into this and our legal concurred that we could not enforce our easement upon SHA. In short, to answer your question, we try to work with the State on mitigation solutions during project planning, but at the end of the day the State through DNR will impact where deemed necessary, regardless of City easements.

Rob

---

**From:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Sent:** Tuesday, April 7, 2020 9:45 AM  
**To:** Rob Robinson <[Rob.Robinson@gaithersburgmd.gov](mailto:Rob.Robinson@gaithersburgmd.gov)>  
**Cc:** Dennis Enslinger <[Dennis.Enslinger@gaithersburgmd.gov](mailto:Dennis.Enslinger@gaithersburgmd.gov)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; [CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)  
**Subject:** RE: I-495/I-270 MLS Reforestation Mitigation

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Hi Rob,

Understood. Thanks very much for the quick response. Would you also be able to provide information on the process for mitigating potential impacts to Forest Conservation Easements?

Thank you!

- Kate

---

**From:** Rob Robinson <[Rob.Robinson@gaithersburgmd.gov](mailto:Rob.Robinson@gaithersburgmd.gov)>  
**Sent:** Monday, April 6, 2020 10:05 AM  
**To:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Cc:** Dennis Enslinger <[Dennis.Enslinger@gaithersburgmd.gov](mailto:Dennis.Enslinger@gaithersburgmd.gov)>  
**Subject:** RE: I-495/I-270 MLS Reforestation Mitigation

Hi Kate,

Dennis Enslinger asked me to respond to your request. Unfortunately, the City of Gaithersburg does not have five acres available for forest con plantings related to the MLS project. Our most recent inventory and assessment identifies that our resources need enhancement and invasive species removal and are not open receiving areas. Please feel to contact me with any other questions,

Rob

Rob Robinson III, AICP CEP

FCA Qualified Professional

Long Range Planning Manager



City of Gaithersburg  
240-805-1072

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**From:** [Andrea Murtha](#)  
**To:** [Kate Gordon](#)  
**Subject:** Re: I-495/I-270 MLS & City of Rockville FCE Coordination Meeting Summary - 4/10/20  
**Date:** Thursday, May 7, 2020 11:33:37 AM  
**Attachments:** [image001.png](#)  
[image005.png](#)

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Hi Kate,

Thanks for the summary. It appears you have captured my comments correctly.

The city would require a 1:1 replacement for any impacted forested easement areas. The city has a provision for allowing individual trees to credit toward FCE. In the event that the 270 project impacts credited individual trees, those would also be replaced at 1:1. Impact mitigation is not interchangeable; meaning, if an individual tree is impacted, it must be replaced in kind. Likewise, if forest is cleared, forest will need to be replaced.

The city would also expect that the new forest edge created when existing easements are reduced as a result of the project be properly restored. That effort usually entails supplemental planting of native trees and shrubs that are typically found within that ecotone.

Hope that answers your question.

## Andie Murtha

Principal Planner  
 Urban Forestry and Landscape Architecture  
 Community Planning and Development Services  
 ISA Certified Arborist-TRAQ, MD LTE, ASLA  
 240-314-8713

VISIT <http://rockvillemd.gov/1066/Forestry> TO ACCESS UP-TO-DATE NOTES AND DETAILS FOR DEVELOPMENT PLAN SUBMISSIONS.




---

**From:** Kate Gordon <kgordon@rkk.com>  
**Sent:** Wednesday, April 29, 2020 7:55 AM  
**To:** Andrea Murtha <amurtha@rockvillemd.gov>  
**Cc:** Greg OHare <gohare@rkk.com>; 'Christina Brandt' <CBrandt@mdot.maryland.gov>; Caryn Brookman (Consultant) <CBrookman.consultant@mdot.maryland.gov>; Anita Alexander <aalexander@rkk.com>  
**Subject:** I-495/I-270 MLS & City of Rockville FCE Coordination Meeting Summary - 4/10/20

Hi Andie,



I've attached a draft summary of our meeting on 4/10/20 for your review. Please let me know if you have edits. Also, would you be able to clarify what mitigation ratios would apply for FCE impact mitigation through off-site planting vs. off-site retention of existing forest?

Thank you!

- Kate

---

**KATE GORDON, PWS, CA, LTE**  
Project Manager



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Baltimore, MD 21202

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## City of Rockville – FCE Coordination

April 10, 2020

**I-495 & I-270 Managed Lanes Study  
City of Rockville Coordination:  
Forest Conservation Easements & Reforestation Opportunities  
Friday, April 10, 2020  
11:00 AM**

### Meeting Summary

#### Attendees:

Andie Murtha, City of Rockville  
Greg O'Hare, MDOT SHA  
Kate Gordon, MDOT SHA

#### Introductions, Project Overview

The meeting began with introductions, followed by a brief overview of the MDOT SHA I-495 & I-270 P3 program and the MLS project by Kate Gordon. Kate provided a summary of the Reforestation Law mitigation hierarchy, including mitigation on-site, off-site planting on public lands (prioritizing sites within the affected county and watershed, followed by sites within the affected watershed outside of the affected county), forest conservation banks and payment into the Reforestation Fund. In addition to the requirements of the Reforestation Law, the project will need to mitigate any impacts to Forest Conservation Easements (FCEs) in accordance with local and state requirements.

#### Forest Conservation Easement GIS Data for City of Rockville

Andie Murtha provided a GIS dataset of the FCEs held by the City of Rockville in the vicinity of I-270 in advance of the meeting. She noted that this is not a complete dataset and must be verified for accuracy with the land records.

#### Forest Conservation Easement Impacts and Mitigation Process

Andie Murtha gave an overview of the requirements that would be associated with impacting City of Rockville held FCEs. Mitigation would be required either on-site (with additional planting outside of the FCE on the affected property) or off-site on a property purchased by MDOT SHA. Off-site mitigation should be within the City of Rockville and could include reforestation planting or preservation of existing forest. Fee-in-lieu would not be accepted for this project. The purchase of forest conservation banking credits is not currently available in the City of Rockville. The project would be required to revise the





## City of Rockville – FCE Coordination

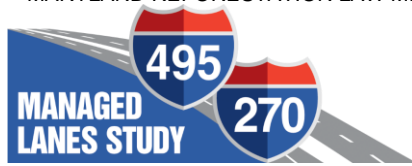
April 10, 2020

plats of the affected property to show the revision to the existing FCE, and develop FCE documents for recordation of an easement on off-site properties used as mitigation sites.

### **Planting Opportunities**

Andie Murtha said that the City of Rockville will not be able to offer up any property for forest mitigation for the MLS project.





## M-NCPPC Prince George's Forest Mitigation Desktop Review

June 5, 2020

### I-495 & I-270 Managed Lanes Study M-NCPPC Prince George's County & City of College Park - Forest Mitigation Desktop Review June 5, 2020 @ 9:00 AM

#### Attendees:

Name	Agency	Phone	Email
Laura Connelly	M-NCPPC Prince George's	301-699-2438	<a href="mailto:Laura.Connelly@pgparks.com">Laura.Connelly@pgparks.com</a>
Terry Schum	City of College Park Dept. of Planning & Zoning	240-487-3538	<a href="mailto:tschum@collegeparkmd.gov">tschum@collegeparkmd.gov</a>
Brenda Alexander	City of College Park Dept. Of Public Works	240-487-3590	<a href="mailto:balexander@collegeparkmd.gov">balexander@collegeparkmd.gov</a>
Katie Hart	City of College Park Dept. of Planning & Zoning	240-487-3538	<a href="mailto:khart@collegeparkmd.gov">khart@collegeparkmd.gov</a>
Jen Hannum	MDOT SHA P3	443-680-5568	<a href="mailto:Jennifer.Hannum@pgparks.com">Jennifer.Hannum@pgparks.com</a>
Kate Gordon	MDOT SHA P3	410-962-9131	<a href="mailto:kgordon@rkk.com">kgordon@rkk.com</a>
Greg O'Hare	MDOT SHA P3	410-462-9165	<a href="mailto:gohare@rkk.com">gohare@rkk.com</a>
Anita Alexander	MDOT SHA P3	410-462-9358	<a href="mailto:aalexander@rkk.com">aalexander@rkk.com</a>
Seth Hinder	MDOT SHA P3	410-983-1239	<a href="mailto:shinder@cemsience.com">shinder@cemsience.com</a>

#### Meeting Summary

A virtual meeting took place on 6/5/2020 with M-NCPPC Prince George's County staff and City of College Park staff to discuss potential forest mitigation sites for the I-495 & I-270 Managed Lanes Study (MLS) on M-NCPPC Prince George's County parkland in the City of College Park. A summary of the topics discussed at the meeting follows.

#### Introductions

Participants met virtually via a MS Teams meeting. The meeting began with introductions. Kate Gordon gave an overview of the coordination to date to identify potential reforestation sites on M-NCPPC property for MLS Reforestation Law mitigation. She explained that Chesapeake Environmental Management (CEM) is assisting with the public outreach coordination and had previously coordinated with staff at the City of College Park Department of Planning and Zoning. During a meeting with M-NCPPC Prince George's staff on May 29, 2020, Laura Connelly expressed interest in meeting with representatives from the City of College Park to discuss potential planting opportunities on M-NCPPC Prince George's County parkland within the City.

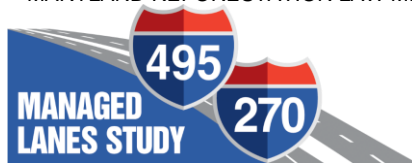
The following is a summary of the discussion:

- Jen Hannum asked if the 1:1 replacement that is required under Reforestation Law is based

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Page 1





on the size and height of trees removed. Kate clarified that 1:1 replacement is based on acreage of impact, not the size or height of tree removals. A mix of stock size/plant densities can be proposed for reforestation mitigation planting. DNR will need to review and approve the proposed size/density of plantings for each site.

- Jen also asked about whether there are requirements for proposed plant species. Greg O'Hare clarified that DNR requires all proposed plant species to be native. Proposed plant species typically emulate the forest near the planting location as much as possible.
- Greg went over the Reforestation Law mitigation hierarchy and reiterated that the developer will be responsible for identifying as many opportunities for on-site reforestation planting within the project LOD. At this time, the MLS NEPA team is identifying potential offsite planting opportunities and documenting public property owner requests/requirements associated with planting on their property.
- Under DNR's guidance, planting sites must be at least 0.50 AC in total area and 50 ft. in width. Strip planting will not fulfill the mitigation requirements under the Reforestation Law. The MLS NEPA Team is focusing on sites at least five acres in size, but will consider smaller sites that are in close proximity to one another.
- Terry Schum mentioned that the City of College Park does not have any sites available with at least 2 AC of contiguous area. However, she is open to have more conversations with M-NCPPC Prince George's staff to identify smaller areas that could collectively add up to at least 2 AC. She indicated that there are ~0.25 AC areas available on City owned parcels.
- Terry suggested planting within SHA's ROW where improvements are needed. Kate clarified that the first priority for Reforestation Law mitigation is to replace forest on-site, within the project LOD.
- Laura agreed that there are many open areas along state and county roads that could benefit from reforestation planting. The MLS Team will follow up with DNR to determine whether the MLS project could receive Reforestation Law credit for planting street trees or canopy shade trees. DNR responded indicating that tree canopy replacement would not be acceptable for Reforestation Law mitigation.
- Brenda Alexander with the Department of Public Works has a list of smaller sites that are important to the City.
- Terry Schum and Laura Connelly suggested preparing an exhibit of planting opportunities in the City of College Park and presenting it to DNR.

### **Action Items:**

- Terry Schum with the City Department of Planning and Zoning will coordinate internally to determine if the City will be purchasing properties that may provide planting opportunities.
- The City of College Park will notify the MLS NEPA team if opportunities are identified and will provide a list of the potential planting sites.
- The MLS NEPA team will evaluate the identified planting sites.



**From:** [Dan Baden Baden](#)  
**To:** [Hinder, Seth](#); [Barrow, Sadara](#)  
**Cc:** [Marra, Michael](#); [Anita Alexander](#); [cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov); [gohare@rkk.com](mailto:gohare@rkk.com); [Kate Gordon](#)  
**Subject:** Re: I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities  
**Date:** Tuesday, May 26, 2020 3:36:02 PM

---

I am not aware of any opportunities at this time. I have copied Mayor Barrow to get her input.

Dan Baden  
Clerk-Treasurer  
410-980-1538

On May 26, 2020 at 2:20 PM "Hinder, Seth" <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)> wrote:

Good afternoon Mr. Baden,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in Colmar Manor. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Seth Hinder

Consultant for Maryland Department of Transportation, State Highway  
Administration

email: [shinder@cemscience.com](mailto:shinder@cemscience.com)

cell: (410) 983-1239

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).



**From:** [Consuella Barbour](#)  
**To:** [Marra, Michael](#); [gpinkneydpw@cottagecitymd.gov](mailto:gpinkneydpw@cottagecitymd.gov)  
**Cc:** [Christina Brandt](#) ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)); [gohare@rkk.com](mailto:gohare@rkk.com); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Thursday, April 02, 2020 9:57:24 AM  
**Attachments:** [image003.png](#)  
[image005.png](#)  
[image008.png](#)  
[image009.png](#)

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Dr. Mr. Marra,

We feel that this time that we do not have any lots suitable for reforestation. Thank you for your consideration.

Regards,  
Consuella Barbour

On April 2, 2020 9:32 AM Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)> wrote:

Good morning Ms. Barbour and Mr. Pinkney,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in Cottage City. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway  
Administration

email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).





**Michael Marra**  
**Environmental Scientist**  
 Resource Assessment & Permitting  
[mmarra@cemsience.com](mailto:mmarra@cemsience.com)  
 cell: (302) 290-9245  
 42 N. Main Street | Bel Air, MD 21014



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**From:** Marra, Michael

**Sent:** Tuesday, February 11, 2020 1:33 PM

**To:** 'townmanager@cottagecitymd.gov' <townmanager@cottagecitymd.gov>; 'gpinkneydpw@cottagecitymd.gov' <gpinkneydpw@cottagecitymd.gov>

**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>; gohare@rkk.com; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>

**Subject:** I -495/I-270 MLS Reforestation Mitigation

Dear Ms. Barbour and Mr. Pinkney,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that



clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Cottage City. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

cell: 302-290-9245

---



Applying Practical Science to Improve Communities

**Michael Marra**

**Environmental Scientist**  
Resource Assessment & Permitting

[mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

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Town Manager

Town of Cottage City, MD

301-779-2161 Office

[townmanager@cottagecitymd.gov](mailto:townmanager@cottagecitymd.gov)



**From:** [Marra, Michael](#)  
**To:** ["taylorj@districtheights.org"](mailto:taylorj@districtheights.org)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](mailto:cbrandt@mdot.maryland.gov); [gohare@rkk.com](mailto:gohare@rkk.com); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Thursday, April 02, 2020 9:36:00 AM  
**Attachments:** [image005.png](#)  
[image006.png](#)  
[image008.png](#)  
[image009.png](#)

Good morning Mr. Taylor,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in District Heights. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

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**From:** Marra, Michael

**Sent:** Tuesday, February 11, 2020 2:45 PM

**To:** 'taylorj@districtheights.org' <taylorj@districtheights.org>

**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>; gohare@rkk.com; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>

**Subject:** I -495/I-270 MLS Reforestation Mitigation



Dear Mr. Taylor,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by District Heights. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
cell: 302-290-9245

---

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**From:** [Marra, Michael](#)  
**To:** ["townhall@edmonstonmd.gov"](mailto:townhall@edmonstonmd.gov)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](#); [gohare@rkk.com](#); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Thursday, April 02, 2020 11:35:00 AM  
**Attachments:** [image005.png](#)  
[image006.png](#)  
[image008.png](#)  
[image009.png](#)

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Good morning,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in Edmonston. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

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**From:** Marra, Michael

**Sent:** Tuesday, February 11, 2020 3:03 PM

**To:** 'townhall@edmonstonmd.gov' <townhall@edmonstonmd.gov>

**Subject:** I -495/I-270 MLS Reforestation Mitigation

To whom it may concern,



On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Edmonston. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
Cell: 302-290-9245

 <p><b>CEM</b> Applying Practical Science to Improve Communities</p>	<p><b>Michael Marra</b> <b>Environmental Scientist</b> Resource Assessment &amp; Permitting <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a> cell: (302) 290-9245</p>	 <p><b>25</b> CEM est. 1993</p>
<p>42 N. Main Street   Bel Air, MD 21014 phone: 410.893.9016   Visit us at <a href="http://www.cemsience.com">www.cemsience.com</a></p> <p><i>This email may contain confidential information intended for the sole use of the recipient. Unauthorized use of this information is prohibited. If you received this email in error please notify sender. Thank you!</i></p> <div style="text-align: right;">    </div>		







**From:** [Marra, Michael](#)  
**To:** ["clerk@fairmountheightsmd.gov"](mailto:clerk@fairmountheightsmd.gov)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](mailto:cbrandt@mdot.maryland.gov); [gohare@rkk.com](mailto:gohare@rkk.com); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Thursday, April 02, 2020 11:41:00 AM  
**Attachments:** [image005.png](#)  
[image006.png](#)  
[image008.png](#)  
[image009.png](#)

Good morning Ms. Sarumi,  
 I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in Fairmount Heights. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).



**CEM**

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**Michael Marra**  
**Environmental Scientist**  
 Resource Assessment & Permitting  
[mmarra@cemsience.com](mailto:mmarra@cemsience.com)  
 cell: (302) 290-9245



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**From:** Marra, Michael

**Sent:** Tuesday, February 11, 2020 1:56 PM

**To:** 'clerk@fairmountheightsmd.gov' <clerk@fairmountheightsmd.gov>

**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>;  
 gohare@rkk.com; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>

**Subject:** I -495/I-270 MLS Reforestation Mitigation



Dear Ms. Sarumi,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Fairmount Heights. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
Cell: 302-290-9245

---

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**From:** [Marra, Michael](#)  
**To:** [hmuhammad@forestheightsmd.gov](mailto:hmuhammad@forestheightsmd.gov)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation:  
**Date:** Wednesday, June 24, 2020 12:58:00 PM  
**Attachments:** [image005.png](#)  
[image006.png](#)  
[image008.png](#)  
[image009.png](#)

Mayor Muhammad,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in Forest Heights. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

 <p><b>CEM</b> Applying Practical Science to Improve Communities</p>	<p><b>Michael Marra</b>  <b>Environmental Scientist</b>  Resource Assessment &amp; Permitting  <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a>  cell: (302) 290-9245</p>	 <p><b>25</b> CEM est. 1993</p>
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**From:** Marra, Michael

**Sent:** Monday, April 13, 2020 8:51 AM

**To:** [hmuhammad@forestheightsmd.gov](mailto:hmuhammad@forestheightsmd.gov)

**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>;  
[gohare@rkk.com](mailto:gohare@rkk.com); Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>

**Subject:** I -495/I-270 MLS Reforestation Mitigation:



Dear Mayor Muhammad,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Forest Heights. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
Cell (302) 290-9245

---



**CEM**

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**Michael Marra**  
**Environmental Scientist**  
 Resource Assessment & Permitting  
[mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
 cell: (302) 290-9245



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**From:** [PHIL NORMANDY](#)  
**To:** [Marra, Michael](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Tuesday, August 18, 2020 8:05:18 AM  
**Attachments:** [image005.png](#)  
[image006.png](#)

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You are welcome, Mike.  
Thanks for keeping me informed so well.

Phil

---

On Tuesday, August 18, 2020 Marra, Michael <[mmarra@cemsience.com](mailto:mmarra@cemsience.com)> wrote:

Good morning Phil,

I had the MLS reforestation team review the area we discussed. Unfortunately the area does not meet the criterial. Thank you for your time and consideration.

Regards,

Mike

---

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<p>cell: (302) 290-9245 42 N. Main Street   Bel Air, MD 21014</p>		
<p>phone: 410.893.9016   Visit us at <a href="http://www.cemsience.com">www.cemsience.com</a></p>		
<p><i>This email may contain confidential information intended for the sole use of the recipient. Unauthorized use of this information is prohibited. If you received this email in error please notify sender. Thank you!</i></p>		
  		

**From:** PHIL NORMANDY [<mailto:sweetbaym@aol.com>]



**Sent:** Friday, August 14, 2020 1:22 PM  
**To:** Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

That's the spot, called Porcupine Woods.  
 Could use trees, but shaded.

Phil

Phil

---

On Friday, August 14, 2020 Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)> wrote:

Hi Phil,  
 I am also sorry for the delayed response! Please see the attached sketch. Is this (roughly) the potential area?  
 Thanks  
 Mike

---

**Michael Marra**

**Environmental Scientist**

Resource Assessment & Permitting

[mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

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**From:** PHIL NORMANDY [<mailto:sweetbaym@aol.com>]  
**Sent:** Wednesday, June 24, 2020 4:00 PM  
**To:** Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; [managerandrea@garrettparkmd.gov](mailto:managerandrea@garrettparkmd.gov)  
**Subject:** Re: I -495/I-270 MLS Reforestation Mitigation

Wow,  
 In the craziness of this spring I completely forgot about this.  
 Our spaces are limited. Limited to one town park where the natural canopy is thin, and an area within it that has recently been dug up for infrastructure repair. Not sure it's 5 acres but likely.  
 Deer are an issue there, any tree plantings all would need guards, if that's possible.  
 And it is shady.  
 This property is between Clermont and Waverly Avenues.



Phil

-----Original Message-----

From: Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>

To: PHIL NORMANDY <[sweetbaym@aol.com](mailto:sweetbaym@aol.com)>

Sent: Wed, Jun 24, 2020 1:03 pm

Subject: RE: I -495/I-270 MLS Reforestation Mitigation

Good afternoon Mr. Normandy,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities. Please feel free to contact me with any questions.

Thanks again,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at <http://www.495-270-p3.com/>.

---

**Michael Marra**

**Environmental Scientist**

Resource Assessment & Permitting

[mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

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---

**From:** Marra, Michael  
**Sent:** Monday, April 06, 2020 4:11 PM  
**To:** Andrea Fox <[managerandrea@garrettparkmd.gov](mailto:managerandrea@garrettparkmd.gov)>; Elizabeth Henley <[adminelizabeth@garrettparkmd.gov](mailto:adminelizabeth@garrettparkmd.gov)>; PHIL NORMANDY <[sweetbaym@aol.com](mailto:sweetbaym@aol.com)>  
**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Thank you, Ms. Fox. Best wishes and thank you for forwarding the information to Mr. Normandy.

Mr. Normandy, please feel free to contact me if you have any questions.

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

---

## **Michael Marra**

### **Environmental Scientist**

Resource Assessment & Permitting

[mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

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phone: 410.893.9016 | Visit us at [www.cemscience.com](http://www.cemscience.com)

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---

**From:** Andrea Fox [[mailto:managerandrea@garrettparkmd.gov](mailto:mailto:managerandrea@garrettparkmd.gov)]



**Sent:** Thursday, April 02, 2020 4:31 PM

**To:** Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; Elizabeth Henley <[adminelizabeth@garrettparkmd.gov](mailto:adminelizabeth@garrettparkmd.gov)>; PHIL NORMANDY <[sweetbaym@aol.com](mailto:sweetbaym@aol.com)>

**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Hi Michael,

I'm pretty busy dealing with various changes related to COVID-19 right now, but I have cc'd our Town's consulting arborist, Phil Normandy, to get his thoughts. Phil is most familiar with any opportunities (or not) for reforestation in Garrett Park, and is the first person I ask about anything related to trees in Garrett Park.

Andrea

---

**From:** Marra, Michael <mailto:mmarra@cemscience.com>

**Sent:** Thursday, April 2, 2020 3:38 PM

**To:** Andrea Fox <[managerandrea@garrettparkmd.gov](mailto:managerandrea@garrettparkmd.gov)>; Elizabeth Henley <[adminelizabeth@garrettparkmd.gov](mailto:adminelizabeth@garrettparkmd.gov)>

**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Good morning Ms. Fox,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in Garrett Park. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245



For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

---

## Michael Marra

### Environmental Scientist

Resource Assessment & Permitting

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cell: (302) 290-9245

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---

**From:** Marra, Michael

**Sent:** Wednesday, February 12, 2020 12:48 PM

**To:** 'managerandrea@garrettparkmd.gov' <[managerandrea@garrettparkmd.gov](mailto:managerandrea@garrettparkmd.gov)>;  
'adminelizabeth@garrettparkmd.gov' <[adminelizabeth@garrettparkmd.gov](mailto:adminelizabeth@garrettparkmd.gov)>

**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com);  
Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Subject:** I-495/I-270 MLS Reforestation Mitigation

Dear Ms. Fox,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.



We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Garrett Park. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

cell (302) 290 9245

---

***Michael Marra***

**Environmental Scientist**

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**From:** [Marra, Michael](#)  
**To:** ["townhall@glenecho.org"](mailto:townhall@glenecho.org)  
**Cc:** ["Christina Brandt"](#); [gohare@rkk.com](mailto:gohare@rkk.com); ["Anita Alexander"](#); ["Kate Gordon"](#); [Hinder, Seth](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Wednesday, April 08, 2020 4:09:00 PM  
**Attachments:** [image016.png](#)  
[image017.png](#)  
[image018.png](#)  
[image019.png](#)  
[image021.png](#)  
[image022.png](#)  
[image005.png](#)  
[image006.png](#)


Good afternoon Ms. Boa,

Thank you very much for the offer. The project team reviewed the option of planting within the right-of-way. Unfortunately, we cannot pursue this site because it does not meet the size criteria.

Thank you again for your time and consideration,


Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
cell (302) 290 9245

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**From:** townhall@glenecho.org [mailto:townhall@glenecho.org]  
**Sent:** Friday, April 03, 2020 12:34 PM  
**To:** Marra, Michael <mmarra@cemsience.com>  
**Cc:** 'Christina Brandt' <cbrandt@mdot.maryland.gov>; gohare@rkk.com; 'Anita Alexander' <aalexander@rkk.com>; 'Kate Gordon' <kgordon@rkk.com>  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Michael,



It is approximately 1.5 acres and the width is 30 feet.

Beth

---

**From:** Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>  
**Sent:** Thursday, April 2, 2020 2:16 PM  
**To:** townhall <[townhall@glenecho.org](mailto:townhall@glenecho.org)>  
**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>;  
[gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Thank you Ms. Boa. Do you think you could provide an estimated area and the width of the right-of-way? In order to qualify as a forest stand, the tract has to be a minimum of 30 feet wide. Once we have a better understanding of the planting area, I can pass along your question regarding siting and species selection to the project team.

Thank you for your time,

Mike

---

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**From:** townhall [<mailto:townhall@glenecho.org>]  
**Sent:** Thursday, April 02, 2020 12:51 PM  
**To:** Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>; townhall <[townhall@glenecho.org](mailto:townhall@glenecho.org)>  
**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>;  
[gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Good afternoon,



While the Town of Glen Echo does not have a 5 acre site, we do have a right of way (which was the old trolley tracks) in Town. It is along MacArthur Boulevard. I would need to ask the Mayor and Council if they would agree with planting trees, and we would want to have input as to the siting and species of trees.

Sincerely,

Beth Boa  
Town Manager  
Town of Glen Echo  
301-320-4041 office  
301-233-0673 cell

On April 2, 2020 12:34 PM Marra, Michael <[mmarra@cemsience.com](mailto:mmarra@cemsience.com)> wrote:

Good afternoon Ms. Boa,  
I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in the Town of Glen Echo. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway  
Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

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**From:** Marra, Michael  
**Sent:** Wednesday, February 12, 2020 9:26 AM  
**To:** 'townhall@glenecho.org' <[townhall@glenecho.org](mailto:townhall@glenecho.org)>  
**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov))  
<[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander  
<[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Subject:** I -495/I-270 MLS Reforestation Mitigation

Dear Ms. Boa,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the Town of Glen Echo. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

---

**Michael Marra**  
**Environmental Scientist**  
Resource Assessment & Permitting  
[mmarra@cemsience.com](mailto:mmarra@cemsience.com)





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**From:** [Marra, Michael](#)  
**To:** ["thopkins@howardcc.edu"](mailto:thopkins@howardcc.edu)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](mailto:cbrandt@mdot.maryland.gov); [gohare@rkk.com](mailto:gohare@rkk.com); [Anita Alexander](#); [Hinder, Seth](#)  
**Subject:** I -495/I-270 MLS Reforestation Mitigation  
**Date:** Tuesday, February 11, 2020 11:20:00 AM  
**Attachments:** [image008.png](#)  
[image009.png](#)

Hello Mr. Hopkins,

I am just following up on our phone conversation last week regarding forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. Just to reiterate, we are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. In our conversation, you mentioned that Howard CC is currently retaining approximately 40 acres for its own conservation purposes. The state is only looking for new planting opportunities, not retention. Please let us know if anything changes or if new planting opportunities become available in the future.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thanks again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

Cell: 302-290-9245

 <p>Applying Practical Science to Improve Communities</p>	<p><b>Michael Marra</b>  <b>Environmental Scientist</b>  Resource Assessment &amp; Permitting  <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a>  cell: (302) 290-9245</p>	
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**From:** [Marra, Michael](#)  
**To:** [gregory\\_connor@hcpss.org](mailto:gregory_connor@hcpss.org)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](mailto:cbrandt@mdot.maryland.gov); [gohare@rkk.com](mailto:gohare@rkk.com); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Tuesday, March 31, 2020 10:41:31 AM  
**Attachments:** [image014.png](#)  
[image015.png](#)  
[image017.png](#)  
[image018.png](#)  
[image002.png](#)  
[image003.png](#)

Good morning Mr. Connor,

I am following up once again regarding potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Howard County Public Schools . We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

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**From:** Marra, Michael

**Sent:** Friday, February 28, 2020 1:05 PM



**To:** 'gregory\_connor@hcpss.org' <gregory\_connor@hcpss.org>

**Subject:** FW: I -495/I-270 MLS Reforestation Mitigation

Good afternoon Mr. Connor,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities on properties owned by Howard County Public Schools. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

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**From:** Marra, Michael

**Sent:** Wednesday, February 05, 2020 12:24 PM

**To:** 'gregory\_connor@hcpss.org' <[gregory\\_connor@hcpss.org](mailto:gregory_connor@hcpss.org)>

**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Subject:** I -495/I-270 MLS Reforestation Mitigation

Dear Mr. Connor,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing



environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Howard County Public Schools . We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

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**From:** [McNamara, Dan](#)  
**To:** [Hinder, Seth](#); [Linz, Bob](#); [Keane, David](#)  
**Cc:** [Marra, Michael](#); [Anita Alexander](#); [Kate Gordon](#); [gohare@rkk.com](mailto:gohare@rkk.com); [cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)  
**Subject:** RE: I495/270 Forest Mitigation  
**Date:** Monday, June 01, 2020 1:06:56 PM  
**Attachments:** [image002.png](#)  
[image003.png](#)

Seth, this property is designated as an undeveloped county park that will be designed and built in the future. We are not able to offer these properties for mitigation purposes. Surplus lands under the Departments management are utilized for our own internal mitigation requirements. Thanks

---

**From:** Hinder, Seth <SHinder@cemscience.com>  
**Sent:** Monday, June 1, 2020 8:39 AM  
**To:** McNamara, Dan <dmcnamara@howardcountymd.gov>  
**Cc:** Marra, Michael <mmarra@cemscience.com>; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>; gohare@rkk.com; cbrandt@mdot.maryland.gov  
**Subject:** I495/270 Forest Mitigation

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Good Morning Dan,

We have previously corresponded regarding forest mitigation/planting opportunities for the I-495/270 Managed Lane Study. I am reaching out with a specific question regarding the Howard County Park land located adjacent to the SHA property identified in the attached images. I understand you previously informed the MLS Forest Mitigation team that Howard County did not currently have any forest planting or mitigation opportunities, however, I have been asked to inquire about potentially planting these properties in particular to determine if a partnership between SHA and Howard County may be viable on these adjacent parcels of land.

Please let me know if you have any questions,

Thank you for your time,

Seth Hinder

---

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**Hinder, Seth**

---

**From:** McNamara, Dan <dmcnamara@howardcountymd.gov>  
**Sent:** Wednesday, February 19, 2020 10:07 AM  
**To:** Hinder, Seth  
**Subject:** RE: I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities

Seth, the Department does not have surplus lands for mitigation, we use what we have for our own requirements, sorry we could not help. Dan

---

**From:** Hinder, Seth <SHinder@cemscience.com>  
**Sent:** Thursday, February 6, 2020 12:58 PM  
**To:** McNamara, Dan <dmcnamara@howardcountymd.gov>  
**Subject:** I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Dear Dan McNamara,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the Howard County Department of Recreation and Parks. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,



phone: 4

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**From:** [Dawn Taft](#)  
**To:** [Marra, Michael](#)  
**Subject:** Reforestation Program  
**Date:** Thursday, August 20, 2020 2:38:29 PM  
**Attachments:** [Outlook-1486675820.png](#)  
[Outlook-1486675844.png](#)  
[Outlook-1486675855.png](#)  
[Outlook-1486675866.png](#)  
[Outlook-1486675879.png](#)  
[image238021.png](#)  
[image530467.png](#)  
[image084487.png](#)  
[image313112.png](#)  
[image448193.png](#)

---

Hello Mr. Marra,

I apologize for the long delay in getting to speak with you. Unfortunately, the City of Hyattsville doesn't not have any property that fits your reforestation requirements.

Good luck in your endeavor.

Dawn Taft  
 Supervisor of Environmental Programs  
 City Arborist  
 City of Hyattsville, DPW  
 ISA Certified Arborist #MA-5282A  
 CBLP 2-00093, CPH, TRAQ, CPSI #23453-0217  
 Office 240-487-0290



**DAWN TAFT**  
 Supervisor-Enviromental Programs  
 Department of Public Works  
 City of Hyattsville

(240) 487-0290  
[dtaft@hyattsville.org](mailto:dtaft@hyattsville.org)  
[www.hyattsville.org](http://www.hyattsville.org)

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**From:** [Marra, Michael](#)  
**To:** [Dawn Taft](#)  
**Subject:** RE: Subject: RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Tuesday, August 04, 2020 9:14:00 AM  
**Attachments:** [image014.png](#)  
[image015.png](#)  
[image016.png](#)  
[image017.png](#)  
[image018.png](#)  
[image019.png](#)  
[image020.png](#)  
[image021.png](#)  
[image022.png](#)  
[image023.png](#)  
[image005.png](#)  
[image006.png](#)

Good morning Ms. Taft,  
 Just wanted to follow-up once again regarding the reforestation mitigation opportunities.

Thanks,

Mike Marra  
 Consultant for Maryland Department of Transportation, State Highway Administration

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**From:** Marra, Michael  
**Sent:** Wednesday, June 24, 2020 1:24 PM  
**To:** Dawn Taft <dtaft@hyattsville.org>  
**Subject:** RE: Subject: RE: I -495/I-270 MLS Reforestation Mitigation

Thank you for the update, Ms. Taft. I look forward to hearing back from you.


-Mike








Applying Practical Science to Improve Communities

**Michael Marra**  
**Environmental Scientist**  
 Resource Assessment & Permitting  
[mmarra@cemsience.com](mailto:mmarra@cemsience.com)  
 cell: (302) 290-9245



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**From:** Dawn Taft [<mailto:dtaft@hyattsville.org>]  
**Sent:** Wednesday, June 24, 2020 11:18 AM  
**To:** Marra, Michael <[mmarra@cemsience.com](mailto:mmarra@cemsience.com)>  
**Cc:** Mike Schmidl <[MSchmidl@hyattsville.org](mailto:MSchmidl@hyattsville.org)>; Lesley Riddle <[lriddle@hyattsville.org](mailto:lriddle@hyattsville.org)>; Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Subject:** Re: Subject: RE: I -495/I-270 MLS Reforestation Mitigation

Good Morning Mr. Marra,

COVID pushed the final report out a few weeks. The final draft of the report is being reviewed now. I will follow up with you in mid July and we have the Final Report.

Dawn Taft  
 Supervisor of Environmental Programs  
 City Arborist  
 City of Hyattsville, DPW  
 ISA Certified Arborist #MA-5282A  
 CBLP 2-00093, CPH, TRAQ, CPSI #23453-0217  
 Office 240-487-0290



**From:** Marra, Michael <[mmarra@cemsience.com](mailto:mmarra@cemsience.com)>  
**Sent:** Wednesday, June 24, 2020 10:38 AM  
**To:** Dawn Taft <[dtaft@hyattsville.org](mailto:dtaft@hyattsville.org)>



**Cc:** Mike Schmidl <[MSchmidl@hyattsville.org](mailto:MSchmidl@hyattsville.org)>; Lesley Riddle <[lriddle@hyattsville.org](mailto:lriddle@hyattsville.org)>; Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com) <[gohare@rkk.com](mailto:gohare@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Subject:** RE: Subject: RE: I -495/I-270 MLS Reforestation Mitigation

Good morning Ms. Taft,

The last time we spoke the city was in the middle of updating the Urban Tree Canopy Study. I just wanted to follow-up regarding any reforestation mitigation opportunities. Please feel free to reach out if you have any information/questions.

Thank you!

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
 email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)  
 cell: (302) 290-9245

---



**CEM**  
Applying Practical Science to Improve Communities

**Michael Marra**  
**Environmental Scientist**  
 Resource Assessment & Permitting  
[mmarra@cemsience.com](mailto:mmarra@cemsience.com)  
 cell: (302) 290-9245



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**From:** Marra, Michael

**Sent:** Monday, April 06, 2020 4:22 PM

**To:** Dawn Taft <[dtaft@hyattsville.org](mailto:dtaft@hyattsville.org)>

**Cc:** Mike Schmidl <[MSchmidl@hyattsville.org](mailto:MSchmidl@hyattsville.org)>; Lesley Riddle <[lriddle@hyattsville.org](mailto:lriddle@hyattsville.org)>; Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Subject:** RE: Subject: RE: I -495/I-270 MLS Reforestation Mitigation

Thank you for the update, Ms. Taft. Between now and May, please feel free to reach out if you have any questions.



Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

---



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**Michael Marra**  
**Environmental Scientist**  
 Resource Assessment & Permitting  
[mmarra@cemsience.com](mailto:mmarra@cemsience.com)  
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**From:** Dawn Taft [<mailto:dtaft@hyattsville.org>]

**Sent:** Friday, April 03, 2020 7:58 AM

**To:** Marra, Michael <[mmarra@cemsience.com](mailto:mmarra@cemsience.com)>

**Cc:** Mike Schmidl <[MSchmidl@hyattsville.org](mailto:MSchmidl@hyattsville.org)>; Lesley Riddle <[lriddle@hyattsville.org](mailto:lriddle@hyattsville.org)>

**Subject:** Subject: RE: I -495/I-270 MLS Reforestation Mitigation

Good Morning Mr. Mara,

I response to your recent email to Ms Riddle, the City of Hyattsville is in the process of updating our Urban Tree Canopy Study. The updated report is due to be completed by mid May. At this time we will have a much better picture of our current tree canopy. I will follow up with you once we have the final reports.

Dawn Taft

Supervisor of Environmental Programs

City Arborist

City of Hyattsville, DPW

ISA Certified Arborist #MA-5282A

CBLP 2-00093, CPH, TRAQ, CPSI #23453-0217

Office 240-487-0290





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**From:** [Marra, Michael](#)  
**To:** [SWDaily@tok.md.gov](mailto:SWDaily@tok.md.gov)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](mailto:cbrandt@mdot.maryland.gov); [gohare@rkk.com](mailto:gohare@rkk.com); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Wednesday, June 24, 2020 12:34:00 PM  
**Attachments:** [image008.png](#)  
[image009.png](#)  
[image002.png](#)  
[image003.png](#)

Good afternoon Mr. Daly,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in Kennsington. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

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<p>42 N. Main Street   Bel Air, MD 21014          phone: 410.893.9016   Visit us at <a href="http://www.cemscience.com">www.cemscience.com</a></p> <p><i>This email may contain confidential information intended for the sole use of the recipient. Unauthorized use of this information is prohibited. If you received this email in error please notify sender. Thank you!</i></p> <div style="text-align: right;">    </div>		

**From:** Marra, Michael

**Sent:** Wednesday, February 12, 2020 12:55 PM

**To:** [SWDaily@tok.md.gov](mailto:SWDaily@tok.md.gov)

**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aaalexander@rkk.com](mailto:aaalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Subject:** I -495/I-270 MLS Reforestation Mitigation



Dear Mr. Daily,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the Town of Kennsington. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
cell (302) 290 9245

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**From:** [Marra, Michael](#)  
**To:** ["k.travel@landoverhills.us"](mailto:k.travel@landoverhills.us)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](mailto:cbrandt@mdot.maryland.gov); [gohare@rkk.com](mailto:gohare@rkk.com); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** I -495/I-270 MLS Reforestation Mitigation  
**Date:** Wednesday, February 12, 2020 3:26:00 PM  
**Attachments:** [image004.png](#)  
[image006.png](#)

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Hi Ms. Travel,

Thanks again for taking a moment to talk to me today regarding forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. To reiteration, we are looking for potential tree planting sites that are 5 acres or larger, but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Based on our conversation, Landover Hills does not have any planting opportunities that meet this criterion. If anything becomes available in the future or if you have additional questions please feel free to reach out.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
cell (302) 290 9245

---



**Michael Marra**  
**Environmental Scientist**  
Resource Assessment & Permitting  
[mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
cell: (302) 290-9245



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**From:** [Marra, Michael](#)  
**To:** [Joanne Hall Barr](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Friday, February 28, 2020 8:56:08 AM  
**Attachments:** [image012.png](#)  
[image013.png](#)  
[image015.png](#)  
[image016.png](#)  
[image003.png](#)  
[image005.png](#)

Good Morning Ms. Hall Barr,

I just wanted to send a quick follow-up email to see if your PW and/or Economic Development Departments have had a chance to investigate potential forest mitigation opportunities. To reiterate, MDOT SHA is looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

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**From:** Joanne Hall Barr [mailto:jbarr@laurel.md.us]  
**Sent:** Wednesday, February 05, 2020 3:26 PM  
**To:** Marra, Michael <[mmarra@cemsience.com](mailto:mmarra@cemsience.com)>  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation



Mr. Marra,

Thank you for the opportunity. I will reach out to our Public Works and Economic Development Departments to discuss.

Joanne Hall Barr  
Director

**City of Laurel**

Parks and Recreation  
Laurel Municipal Center  
8103 Sandy Spring Road, Laurel, MD 20707  
**Office:** 301-725-5300, x 2307 Fax: 301-490-5068  
[jbarr@laurel.md.us](mailto:jbarr@laurel.md.us)  
[www.cityoflaurel.org](http://www.cityoflaurel.org)



**From:** Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>

**Sent:** Wednesday, February 5, 2020 3:23 PM

**To:** Joanne Hall Barr <[jbarr@laurel.md.us](mailto:jbarr@laurel.md.us)>

**Cc:** Christina Brandt (<[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)> <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>;  
[gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Subject:** I-495/I-270 MLS Reforestation Mitigation

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Dear Ms. Hall-Barr,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the



project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the City of Laurel. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites. For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

---



**Michael Marra**  
**Environmental Scientist**  
Resource Assessment & Permitting  
[mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
cell: (302) 290-9245



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**From:** [Charlene Dillingham](#)  
**To:** [Marra, Michael](#)  
**Cc:** [Joy](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Friday, April 03, 2020 4:00:23 PM  
**Attachments:** [image002.png](#)  
[image003.png](#)  
[image005.png](#)  
[image006.png](#)

---

Hello,

The Town of Laytonsville does not have any forest mitigation opportunities.

Regards,  
Charlene Dillingham  
Town Clerk  
Town of Laytonsville

---

**From:** Marra, Michael [mailto:[mmarra@cemscience.com](mailto:mmarra@cemscience.com)]  
**Sent:** Thursday, April 02, 2020 2:56 PM  
**To:** [clerk2011@comcast.net](mailto:clerk2011@comcast.net); [clerk2@comcast.net](mailto:clerk2@comcast.net)  
**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)); [gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander; Kate Gordon  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Good Afternoon,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in the Town of Laytonsville. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra  
Consultant for Maryland Department of Transportation, State Highway Administration  
email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

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 <p><b>CEM</b> Applying Practical Science to Improve Communities</p>	<p><b>Michael Marra</b> <b>Environmental Scientist</b> Resource Assessment &amp; Permitting <a href="mailto:mmarra@cemscience.com">mmarra@cemscience.com</a> cell: (302) 290-9245</p>	 <p><b>25</b> <b>CEM</b> est. 1993</p>
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**From:** Marra, Michael

**Sent:** Wednesday, February 12, 2020 9:39 AM

**To:** 'clerk2011@comcast.net' <clerk2011@comcast.net>; 'clerk2@comcast.net' <clerk2@comcast.net>

**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>; gohare@rkk.com; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>

**Subject:** I-495/I-270 MLS Reforestation Mitigation

To whom it may concern,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the Town of Laytonsville. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
cell (302) 290 9245





Applying Practical Science to Improve Communities

**Michael Marra**  
**Environmental Scientist**  
Resource Assessment & Permitting  
[mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
cell: (302) 290-9245



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**From:** [Marra, Michael](#)  
**To:** ["manager@martinsadditions.org"](mailto:manager@martinsadditions.org)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](mailto:cbrandt@mdot.maryland.gov); [gohare@rkk.com](mailto:gohare@rkk.com); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Thursday, April 02, 2020 3:08:00 PM  
**Attachments:** [image005.png](#)  
[image006.png](#)  
[image008.png](#)  
[image009.png](#)

Good Afternoon,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in the Village of Martins Additions. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

 <p>Applying Practical Science to Improve Communities</p>	<p><b>Michael Marra</b>  <b>Environmental Scientist</b>  Resource Assessment &amp; Permitting  <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a>  cell: (302) 290-9245</p>	 <p>est. 1993</p>
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**From:** Marra, Michael

**Sent:** Wednesday, February 12, 2020 9:55 AM

**To:** 'manager@martinsadditions.org' <manager@martinsadditions.org>

**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>;  
gohare@rkk.com; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>

**Subject:** I -495/I-270 MLS Reforestation Mitigation



To whom it may concern,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the Village of Martins Additions. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
cell (302) 290 9245

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 <p>Applying Practical Science to Improve Communities</p>	<p><b>Michael Marra</b>  <b>Environmental Scientist</b>          Resource Assessment &amp; Permitting  <a href="mailto:mmarra@cemscience.com">mmarra@cemscience.com</a>          cell: (302) 290-9245</p>	
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**From:** [Stephens, Douglas](#)  
**To:** [Caryn Brookman](#); [Kate Gordon](#)  
**Cc:** [Hamilton, Bill](#)  
**Subject:** MLS reforestation on MNCPPC Parkland  
**Date:** Thursday, September 3, 2020 7:52:54 AM  
**Attachments:** [Reforestation Guidance Document 9-2020.pdf](#)  
[planting\\_regs-on-disturbed-land\\_rev-10-14.pdf](#)  
[BMPJan2014Rev\\_Final.pdf](#)

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Good Morning Caryn and Kate,

Please find attached a memo (Reforestation Guidance Document 9-2020) regarding the potential for using parkland sites to meet state forest mitigation requirements. Also, attached are 2 documents referenced in the memo. We look forward to continuing to work with your team on these efforts.

Thanks,

-Doug

Douglas Stephens  
Principal Natural Resource Specialist  
Department of Parks  
M-MNCPPC, [Montgomery County](#)  
[2425](#) Reddie Drive  
[Wheaton, MD 20902](#)  
301-650-4367  
[www.montgomeryparks.org](http://www.montgomeryparks.org)





**MONTGOMERY COUNTY DEPARTMENT OF PARKS**  
THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

**MEMORANDUM**

September 3, 2020

TO: Caryn Brookman

FROM: Doug Stephens, Principal Natural Resource Specialist, Park Planning and Stewardship Division

RE: Reforestation Guidance for the I-495 & I-270 Managed Lanes Study (MLS)

All parkland reforestation proposed must be used exclusively to fulfill the State Conservation mitigation requirements for trees removed from parkland. Forest removal from non-parkland sites (such as ROW or private property) cannot be mitigated for on existing parkland. Parks will consider accepting dedication of new parkland for sites that MDOT SHA plants to meet State Conservation mitigation requirements for trees removed from non-parkland locations; Thorough review and vetting of these sites would need to be completed by Parks, including monitoring and maintenance that fulfills Parks' standards.

M-NCPPC planting and maintenance requirements for any MLS related reforestation are listed below:

- Must follow all relevant M-NCPPC planting guidance and related documents. See attached Planting Requirements for Land Disturbing Activities and Related Mitigation on M-NCPPC, Montgomery County Parkland document.
- M-NCPPC, Montgomery Parks has final approval of proposed species and quantities for all plantings.
- Reforestation sites on parkland can only be used for trees that are removed on M-NCPPC land. SHA cannot plant trees on existing parkland that are mitigation for trees removed on their ROW, private property, or any property that is not M-NCPPC park land.
- Every effort should be made to replace trees removed as close to the impact as possible. Parks will coordinate with MDOT SHA to assess sites that are adjacent or within the LOD.
- No easements will be placed on parkland for areas associated with the reforestation plantings. If SHA intends to utilize parkland planting sites for State required Forest Conservation, M-NCPPC will require a letter from DNR acknowledging that no easements will accompany planting sites on parkland. This letter must be received in advance of site approval and Park Construction Permit issuance.
- SHA will be required to meet all Parks standards for access, site work, and planting. Mitigation for impacts associated with the reforestation work will be required.



- Parks will consider accepting the deed to lands that SHA plants for their non-parkland tree planting requirements (ROW, etc), however, thorough review and vetting of the sites will be completed by parks, including monitoring and maintenance that fulfills Parks' standards.
- Parks has provided numerous potential planting locations on parkland. MDOT SHA need to assess these for acceptability, feasibility, and other derived constraints. Parks staff will provide review to determine acceptable site plans during Park Construction Permit review and only then will formal approval be provided. Preliminary input may be requested as MDOT SHA identifies sites and the constraints associated with those sites.
- Access to the sites must be assessed by MDOT SHA. It is unlikely that Parks would provide approval of site planting if the access requires considerable damage and mitigation, e.g. crossing through existing forest, wetlands, and streams.
- Where required due to site conditions, MDOT SHA will need to provide NNI control and management that adheres to Parks' requirements. See attached Best Management Practices for Control of Non-Native Invasive Plants.
- Tree protection devices must be removed and properly disposed of by MDOT SHA following project completion and when all canopy-dominant/co-dominant tree species have achieved a diameter-at-breast height (DBH) of four (4) inches; canopy-dominant/co-dominant species will be agreed to and identified within planting plans.

ATTACHMENTS: Best Management Practices for Control of Non-Native Invasive Plants  
Planting Requirements for Land Disturbing Activities and Related Mitigation  
on M-NCPPC, Montgomery County Parkland



**From:** [Kate Gordon](#)  
**To:** ["Hamilton, Bill"](#)  
**Cc:** [Stephens, Douglas](#); [Greg OHare](#); [Anita Alexander](#); [Strassburger, Ashby](#); ["Caryn Brookman \(Consultant\)"](#); ["bob@blackwaterenvironmentalgroup.com"](#); [Stacy Talmadge \(Consultant\)](#)  
**Subject:** RE: updated ref. opportunity list  
**Date:** Friday, July 31, 2020 12:25:04 PM

---

Hi Bill,

Thanks again for providing these additional sites. Greg and Anita reviewed the sites on Monday and have determined that none of these are viable mitigation opportunities for the MLS project. Please see site notes and rationale for dropping each site below.

**Site 12: Along Seven Locks Road – Cabin John SVU 5 - 2.52 AC** – A quarter of the site is an old road bed. Total Plantable Area (excluding roadbed) = 1.87 Acres. We recommend dropping this site due to the high site prep needed to treat non-native invasive species, remove impervious cover and decompact the soil. Access is also difficult, due to the steep slope from Seven Locks Road to the site. Private property owner permission would be needed to access from the other side.

**Site 13: Along Beach Drive near intersection with Grosvenor Lane – Rock Creek SVU 3 – 4.53 AC** – The site is mostly wooded with easy access from Beach Drive. Small openings in the canopy due to ash dieback have understory cover that primarily consists of bush honeysuckle and boxelder. A wet del is needed - observed *Persicaria* sp. and a potential ephemeral channel within the planting area. We recommend dropping this site due to the high site prep needed to control non-native invasive species including bush honeysuckle, porcelain berry, Japanese stiltgrass, and multiflora rose in the herbaceous layer and understory. Infill planting would not be efficient considering the level of site prep required, limited open canopy areas, and presence of wetlands.

**Site 14: Along Beach Drive near intersection with Old Spring Road – Rock Creek Park – 1.79 AC** – This entire site is a wetland. There are openings in the canopy due to ash dieback, however native wetland vegetation such as *Peltandra* sp. are present in these areas. Easy access from Beach Drive. We recommend dropping this site, since we are not proposing any mitigation planting in wetlands.

**Site 15: Near Col. E. Brooks Middle School – Wheaton Regional Park – 1.24 AC** – This site has high invasive cover in the herbaceous layer, entering into the canopy. We accessed the site from a trail near the middle school entrance from Monticello Ave. We recommend dropping this site due to its relatively small size and the high level of site prep needed to control non-native invasive species including wisteria (climbing into the canopy), mile-a-minute, and Japanese stiltgrass.

To re-cap, we are proposing to move forward with the following sites that total to 5.58 acres of planting on M-NCPPC property.

Site 2 A/B in Rock Creek SVU 4/5  
 Site 3A in Olney Manor RP  
 Site 4A in NW Branch SVU 5  
 Site 8A in NW Branch SVU 5 - South  
 Site 9A in Rock Creek SVU 2

Please let us know if you have any questions or have any additional potential mitigation sites for our consideration.



Thank you!

- Kate

---

**From:** Kate Gordon  
**Sent:** Tuesday, July 21, 2020 11:59 AM  
**To:** 'Hamilton, Bill' <[bill.hamilton@montgomeryparks.org](mailto:bill.hamilton@montgomeryparks.org)>  
**Cc:** Stephens, Douglas <[Douglas.Stephens@montgomeryparks.org](mailto:Douglas.Stephens@montgomeryparks.org)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; 'Christina Brandt' <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Strassburger, Ashby <[ashby.strassburger@montgomeryparks.org](mailto:ashby.strassburger@montgomeryparks.org)>  
**Subject:** RE: updated ref. opportunity list

Hi Bill,

Thank you for resending; this shapefile works. We plan to conduct field reviews of the 4 additional sites included in this shapefile next Monday (7/27).

Thank you!

- Kate

---

**From:** Hamilton, Bill <[bill.hamilton@montgomeryparks.org](mailto:bill.hamilton@montgomeryparks.org)>  
**Sent:** Monday, July 20, 2020 8:21 AM  
**To:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Cc:** Stephens, Douglas <[Douglas.Stephens@montgomeryparks.org](mailto:Douglas.Stephens@montgomeryparks.org)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; 'Christina Brandt' <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Strassburger, Ashby <[ashby.strassburger@montgomeryparks.org](mailto:ashby.strassburger@montgomeryparks.org)>  
**Subject:** RE: updated ref. opportunity list

See attached.

*Bill Hamilton*

Manager, Natural Resources Stewardship Programs  
 Park Planning and Stewardship Division  
 M-NCPPC, Department of Parks, Montgomery County  
 12535 Milestone Manor Lane, Germantown, MD 20876  
[Bill.Hamilton@montgomeryparks.org](mailto:Bill.Hamilton@montgomeryparks.org)  
**301.962.1342**

---

**From:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Sent:** Friday, July 17, 2020 8:04 AM  
**To:** Hamilton, Bill <[bill.hamilton@montgomeryparks.org](mailto:bill.hamilton@montgomeryparks.org)>  
**Cc:** Stephens, Douglas <[Douglas.Stephens@montgomeryparks.org](mailto:Douglas.Stephens@montgomeryparks.org)>; Greg OHare



<[gohare@rkk.com](mailto:gohare@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; 'Christina Brandt'  
<[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Strassburger, Ashby <[ashby.strassburger@montgomeryparks.org](mailto:ashby.strassburger@montgomeryparks.org)>

**Subject:** RE: updated ref. opportunity list

Hi Bill,

Just following up on this... Would you please send the shapefile of the potential planting sites? The data did not come through when you sent the map document on Wednesday, so we cannot begin our review of the additional sites.

Thank you!

- Kate

---

**From:** Kate Gordon

**Sent:** Wednesday, July 15, 2020 4:06 PM

**To:** 'Hamilton, Bill' <[bill.hamilton@montgomeryparks.org](mailto:bill.hamilton@montgomeryparks.org)>

**Cc:** Stephens, Douglas <[Douglas.Stephens@montgomeryparks.org](mailto:Douglas.Stephens@montgomeryparks.org)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>

**Subject:** RE: updated ref. opportunity list

Hi Bill,

Thanks so much for getting back to us with the potential planting sites. It looks like you've attached an .mxd map document and not the shapefile. Would it be possible to resend with the .shp?

Thanks!

- Kate

---

**From:** Hamilton, Bill <[bill.hamilton@montgomeryparks.org](mailto:bill.hamilton@montgomeryparks.org)>

**Sent:** Wednesday, July 15, 2020 3:00 PM

**To:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Cc:** Stephens, Douglas <[Douglas.Stephens@montgomeryparks.org](mailto:Douglas.Stephens@montgomeryparks.org)>

**Subject:** updated ref. opportunity list

Kate,

I've attached the shapefile of possible planting sites; these represent all sites available on existing parkland for consideration within the current area of review (i.e. I495 corridor in MC), with the original sites that you declined having been removed.

Staff will get back to you about your additional questions ASAP.

Let me know if you run into any difficulties.

Best,



## *Bill Hamilton*

Manager, Natural Resources Stewardship Programs  
Park Planning and Stewardship Division  
M-NCPPC, Department of Parks, Montgomery County  
12535 Milestone Manor Lane, Germantown, MD 20876

[Bill.Hamilton@montgomeryparks.org](mailto:Bill.Hamilton@montgomeryparks.org)

**301.962.1342**

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**I-495 & I-270 Managed Lanes Study**  
**M-NCPPC Montgomery County - Forest Mitigation Desktop Review**  
**June 29, 2020 @ 2:00 pm**

**Attendees:**

Name	Agency	Phone	Email
Bill Hamilton	M-NCPPC Montgomery	301-962-1342	<a href="mailto:Bill.Hamilton@montgomeryparks.org">Bill.Hamilton@montgomeryparks.org</a>
Doug Stephens	M-NCPPC Montgomery	301-650-4367	<a href="mailto:Douglas.Stephens@montgomeryparks.org">Douglas.Stephens@montgomeryparks.org</a>
Dianna Loescher	M-NCPPC Montgomery	301-962-1346	<a href="mailto:Dianna.Loescher@montgomeryparks.org">Dianna.Loescher@montgomeryparks.org</a>
Jacqueline Hoban	M-NCPPC Montgomery	301-650-3587	<a href="mailto:jacqueline.hoban@montgomeryparks.org">jacqueline.hoban@montgomeryparks.org</a>
Ashby Strassburger	M-NCPPC Montgomery	410-205-4701	<a href="mailto:ashby.strassburger@montgomeryparks.org">ashby.strassburger@montgomeryparks.org</a>
Stacy Talmadge	MDOT SHA P3	410-637-3349	<a href="mailto:STalmadge.consultant@mdot.maryland.gov">STalmadge.consultant@mdot.maryland.gov</a>
Anita Alexander	MDOT SHA P3	410-462-9358	<a href="mailto:aalexander@rkk.com">aalexander@rkk.com</a>
Greg O'Hare	MDOT SHA P3	410-462-9165	<a href="mailto:gohare@rkk.com">gohare@rkk.com</a>
Kate Gordon	MDOT SHA P3	410-962-9131	<a href="mailto:kgordon@rkk.com">kgordon@rkk.com</a>

**Meeting Summary**

A desktop review meeting was conducted on June 29, 2020 with M-NCPPC Montgomery County staff to discuss potential forest mitigation sites for the I-495 & I-270 Managed Lanes Study (MLS). A summary of the topics discussed at the meeting follows.

**Introductions**

Participants met virtually via a MS Teams meeting. The meeting began with introductions. Kate Gordon gave an overview of the coordination to date to identify potential reforestation sites on M-NCPPC property for MLS Reforestation Law mitigation. M-NCPPC provided potential planting areas in February 2020 that the MLS team reviewed and used to develop proposed planting locations, which were sent back to M-NCPPC for review in April 2020. M-NCPPC provided comments on those proposed planting sites that are agreeable or that require further evaluation in June 2020.

The following is a summary of the discussion before the group discussed specific sites:

- Bill Hamilton explained that M-NCPPC supports moving forward with the sites noted as “agreeable” as proposed. The sites noted as “further evaluation necessary” require either significant non-native invasive species (NNI) management or RTE surveys by M-NCPPC staff. The sites that M-NCPPC did not comment on were considered non-starters for M-NCPPC due to other planned activities or the presence of historic viewshed easements.
- Kate Gordon asked whether M-NCPPC may have other planting areas that should be considered as part of the MLS site search process, noting that based on M-NCPPC comments, there are only about 15 acres of planting still under consideration on M-NCPPC property.





- Bill responded that many prime reforestation areas have already been planted as a part of past M-NCPPC initiatives or MDOT SHA projects such as the ICC. Montgomery County also has a commitment to maintain 10% open cover on parkland. Bill asked about the mitigation hierarchy for Forest Conservation compliance. Kate responded that the MLS project will be subject to the Maryland Reforestation Law, requiring mitigation for forest impacts in the affected counties or MDE 6-digit watersheds. Greg O'Hare clarified that the Forest Conservation discussion during the November 2019 meeting with M-NCPPC was specifically in relation to mitigation for impacts to existing Forest Conservation Easements.
- Bill noted that Maryland Department of Natural Resources (DNR) requires Forest Conservation Easements for state Forest Conservation Law compliance and M-NCPPC will not consider constraining future use of their parkland to allow MDOT SHA to meet their reforestation requirement. Greg clarified that the Maryland Reforestation Law allows planting on public property without easements. For the ICC, Maryland Reforestation Law mitigation planting was conducted on M-NCPPC property and no easements were required by DNR. MDOT SHA is still in discussion with DNR about the process for MD Reforestation Law compliance associated with the MLS.
- The MLS team would like to arrange a visit to any sites that are still viable based on M-NCPPC comments in the next couple of weeks. Bill said that M-NCPPC does not need to be present for the site visits, but asked to be notified of when the site visits would be conducted.
- Kate asked whether M-NCPPC had any guidance on access to the sites still under consideration. Doug Stephens responded that M-NCPPC would like the MLS team to identify potential access routes during field investigations for M-NCPPC review and comment.
- Doug commented that MDOT SHA purchased property for the ICC project to meet both parkland replacement requirements and Maryland Reforestation Law mitigation. He suggested that a similar strategy should be considered for MLS, since M-NCPPC has not yet been presented with potential parkland replacement sites that they would want to accept.
- M-NCPPC will conduct a site search throughout the rest of the county to identify potential planting sites. Bill asked whether the MLS team has a minimum site size for consideration. Kate replied that the MLS team is looking for at least 5 acres of planting on MNCPPC property and the minimum size for a planting site is 2 acres, though there is some flexibility depending on proximity to other planting sites.

### Planting Opportunities

- Site 1 – Waverly-Schuylkill NP – Further Evaluation Necessary - Dianna Loescher noted that there are issues with kudzu on the steep embankment adjacent to the railroad that M-NCPPC has been trying to deal with for years. Bill noted that this site is under consideration by the Planning Department, so there may be other plans for the site.
- Site 2 – Rock Creek SVU 4/5 – Agreeable
- Site 3 – Olney Manor RP – Agreeable
- Site 4 – NW Branch SVU 5 – Agreeable
- Site 5 - Rock Creek SVU 6 – Further Evaluation Necessary – Dianna noted that extensive wisteria treatment would be necessary at this site. Cost for treatment should be considered.
- Site 6 – Cabin John RP – M-NCPPC did not comment on this site, as there is a nature center nearby and the proposed planting sites may be reserved for other purposes. Bill will follow up regarding site availability.





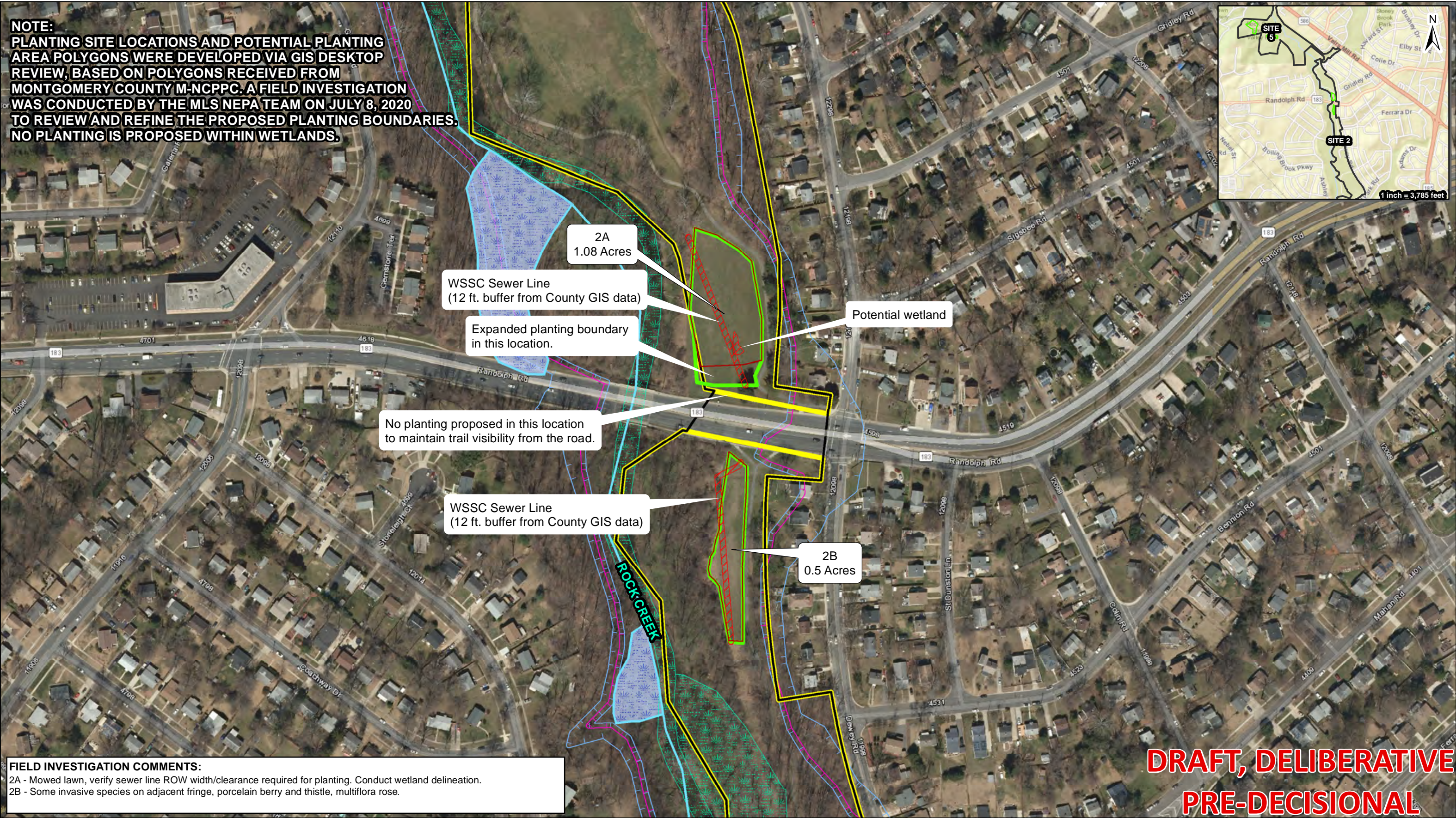
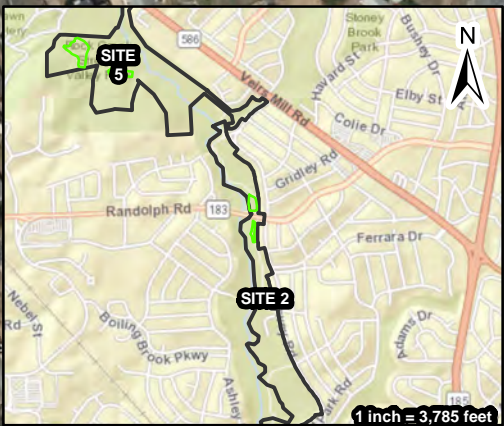
- Site 7H – Northwest Branch RP – Further Evaluation Necessary – Bill said that this site needs to have an RTE survey conducted by M-NCPPC staff to determine whether the five RTE species that had previously been documented at the site (prior to construction of the ICC) are still present. For now, the MLS team will continue to evaluate the site and M-NCPPC staff will notify the MLS team if the site is still viable after the RTE survey is conducted. Sites 7A-7I are not viable.
- Site 8A/8B – Northwest Branch SVU 5 South – Agreeable – Doug noted that site 8B is a mapped wetland. The MLS team will evaluate the site and exclude wetland areas. Site 8C is not viable, as it is in M-NCPPC's meadow program.
- Site 9 – Rock Creek SVU 2 – Further Evaluation Necessary - Dianna noted that this site was under consideration for a spade tree planting site, however she's not certain whether or not they were planted. Bill noted that there may be opportunities for infill planting around the locations of the spade trees and M-NCPPC would be open to that.
- Site 10 – NW Branch SVU 7 North – Not Viable – Bill noted that M-NCPPC has been actively managing this site as a meadow.
- Site 11 – Northwest Branch SVU 7 South – Not Viable – Bill noted that this site has a historic viewshed easement and M-NCPPC has been actively managing this area.

#### **Action Items:**

- The MLS team will conduct site visits of sites that M-NCPPC noted as "Agreeable" or "Further Evaluation Necessary".
- The MLS team will update the proposed planting area boundaries and mapping to include access information based on the results of the field investigation.
- M-NCPPC will conduct a county-wide site search to identify other potential planting sites for evaluation by the MLS team.
- M-NCPPC will provide more details on planting and maintenance requirements associated with the proposed planting sites.
- M-NCPPC will provide site specific comments after the proposed planting areas have been refined based on the field investigation.



**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREA POLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW, BASED ON POLYGONS RECEIVED FROM MONTGOMERY COUNTY M-NCPPC. A FIELD INVESTIGATION WAS CONDUCTED BY THE MLS NEPA TEAM ON JULY 8, 2020 TO REVIEW AND REFINE THE PROPOSED PLANTING BOUNDARIES. NO PLANTING IS PROPOSED WITHIN WETLANDS.

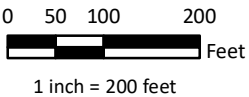


**FIELD INVESTIGATION COMMENTS:**  
2A - Mowed lawn, verify sewer line ROW width/clearance required for planting. Conduct wetland delineation.  
2B - Some invasive species on adjacent fringe, porcelain berry and thistle, multiflora rose.

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- |                            |   |              |                        |
|----------------------------|---|--------------|------------------------|
| M-NCPPC Parcels            | Potential Planting Conflict               | NWI Waters   | NWI Wetlands           |
| Potential Planting Site    | Planting Areas - Field Review Site Status | DNR Waters   | FEMA 100 Yr Floodplain |
| Previous Planting Boundary | Yes                                       | DNR Wetlands | FEMA 500 Yr Floodplain |
| Existing ICC Ref Site      | No  |              |                        |



**Potential Reforestation Planting Opportunities  
on Montgomery County M-NCPPC Parcels**  
Site 2: Rock Creek SVU 4 & SVU 5  
*Lower Rock Creek Watershed - 20700100102*  
**Total Planting Acreage: 1.58**

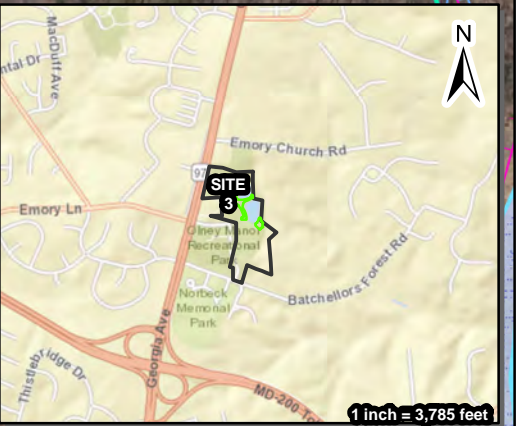
Map 1 of 7

JULY 2020





**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREA POLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW, BASED ON POLYGONS RECEIVED FROM MONTGOMERY COUNTY M-NCPPC. A FIELD INVESTIGATION WAS CONDUCTED BY THE MLS NEPA TEAM ON JULY 8, 2020 TO REVIEW AND REFINE THE PROPOSED PLANTING BOUNDARIES. NO PLANTING IS PROPOSED WITHIN WETLANDS.



Emergency spillway.

3A  
1.2 Acres

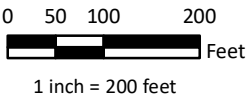
3B  
0.48 Acres

**FIELD INVESTIGATION COMMENTS:**  
3A - Mowed lawn, infill planting for this location. Cannot plant within emergency spillway, removed area from planting boundary.  
3B - Emergency spillway.

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- |                            |   |              |                        |
|----------------------------|---|--------------|------------------------|
| M-NCPPC Parcels            | Potential Planting Conflict               | NWI Waters   | NWI Wetlands           |
| Potential Planting Site    | Planting Areas - Field Review Site Status | DNR Waters   | FEMA 100 Yr Floodplain |
| Previous Planting Boundary | Yes                                       | DNR Wetlands | FEMA 500 Yr Floodplain |
| Existing ICC Ref Site      | No  |              |                        |



**Potential Reforestation Planting Opportunities  
on Montgomery County M-NCPPC Parcels**  
**Site 3: Olney Manor Recreation Park**  
*Northwest Branch Anacostia River Watershed - 20700100201*  
**Total Planting Acreage: 1.2**

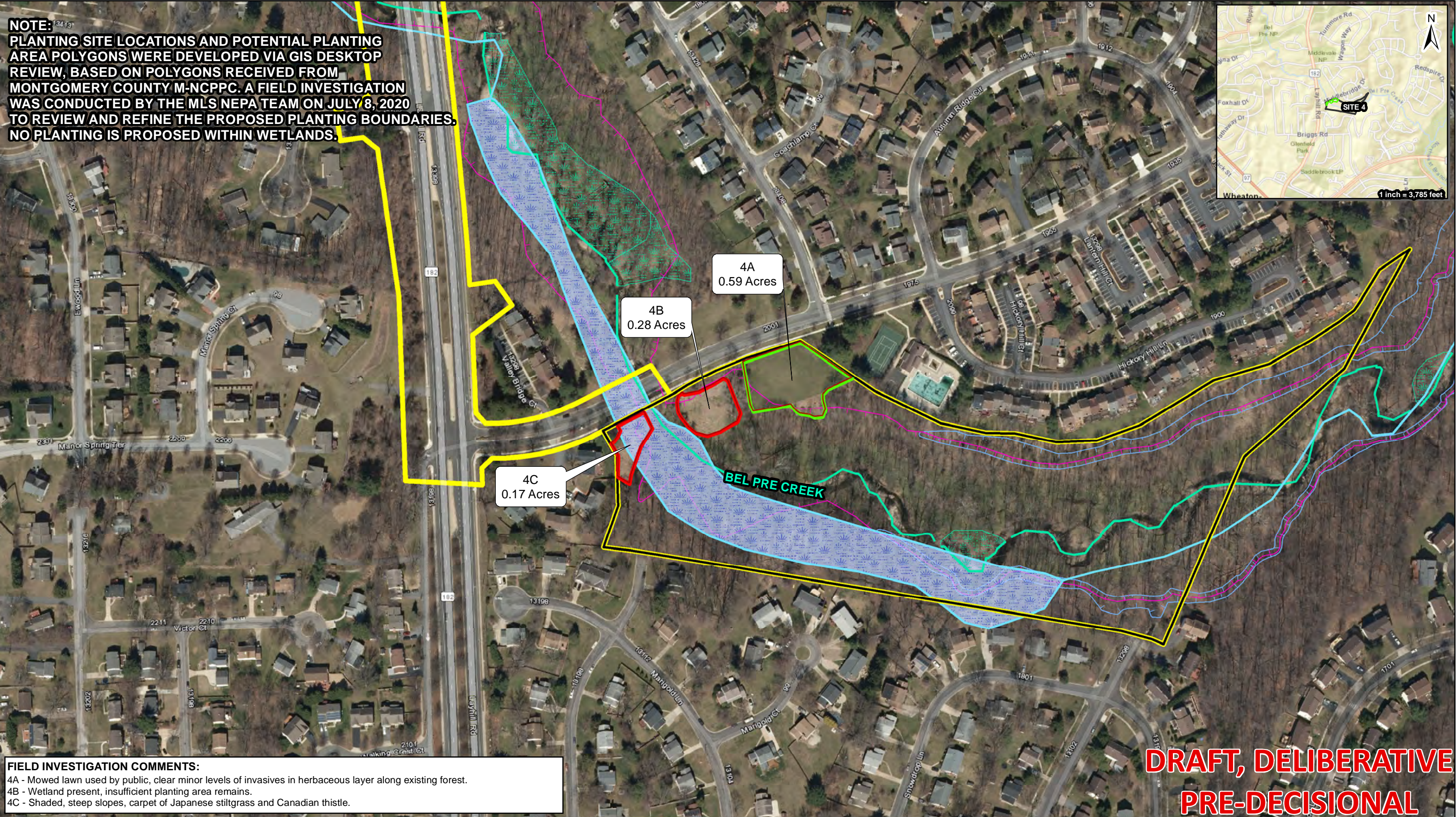
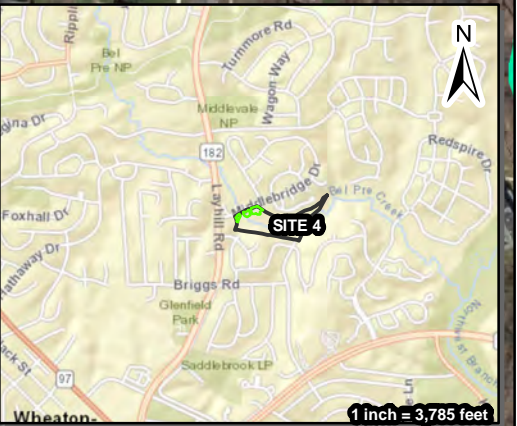
Map 2 of 7

JULY 2020





**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREA POLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW, BASED ON POLYGONS RECEIVED FROM MONTGOMERY COUNTY M-NCPPC. A FIELD INVESTIGATION WAS CONDUCTED BY THE MLS NEPA TEAM ON JULY 8, 2020 TO REVIEW AND REFINE THE PROPOSED PLANTING BOUNDARIES. NO PLANTING IS PROPOSED WITHIN WETLANDS.



**FIELD INVESTIGATION COMMENTS:**  
4A - Mowed lawn used by public, clear minor levels of invasives in herbaceous layer along existing forest.  
4B - Wetland present, insufficient planting area remains.  
4C - Shaded, steep slopes, carpet of Japanese stiltgrass and Canadian thistle.

**LEGEND**

M-NCPPC Parcels	Potential Planting Conflict	NWI Waters	NWI Wetlands
Potential Planting Site	Planting Areas - Field Review Site Staus	DNR Waters	FEMA 100 Yr Floodplain
Previous Planting Boundary	Yes	DNR Wetlands	FEMA 500 Yr Floodplain
Existing ICC Ref Site	No		

0 50 100 200 Feet

1 inch = 200 feet

N

**Potential Reforestation Planting Opportunities  
on Montgomery County M-NCPPC Parcels**  
Site 4: Northwest Branch SVU 5 - North  
Northwest Branch Anacostia River Watershed - 20700100201  
**Total Planting Acreage: 0.59**

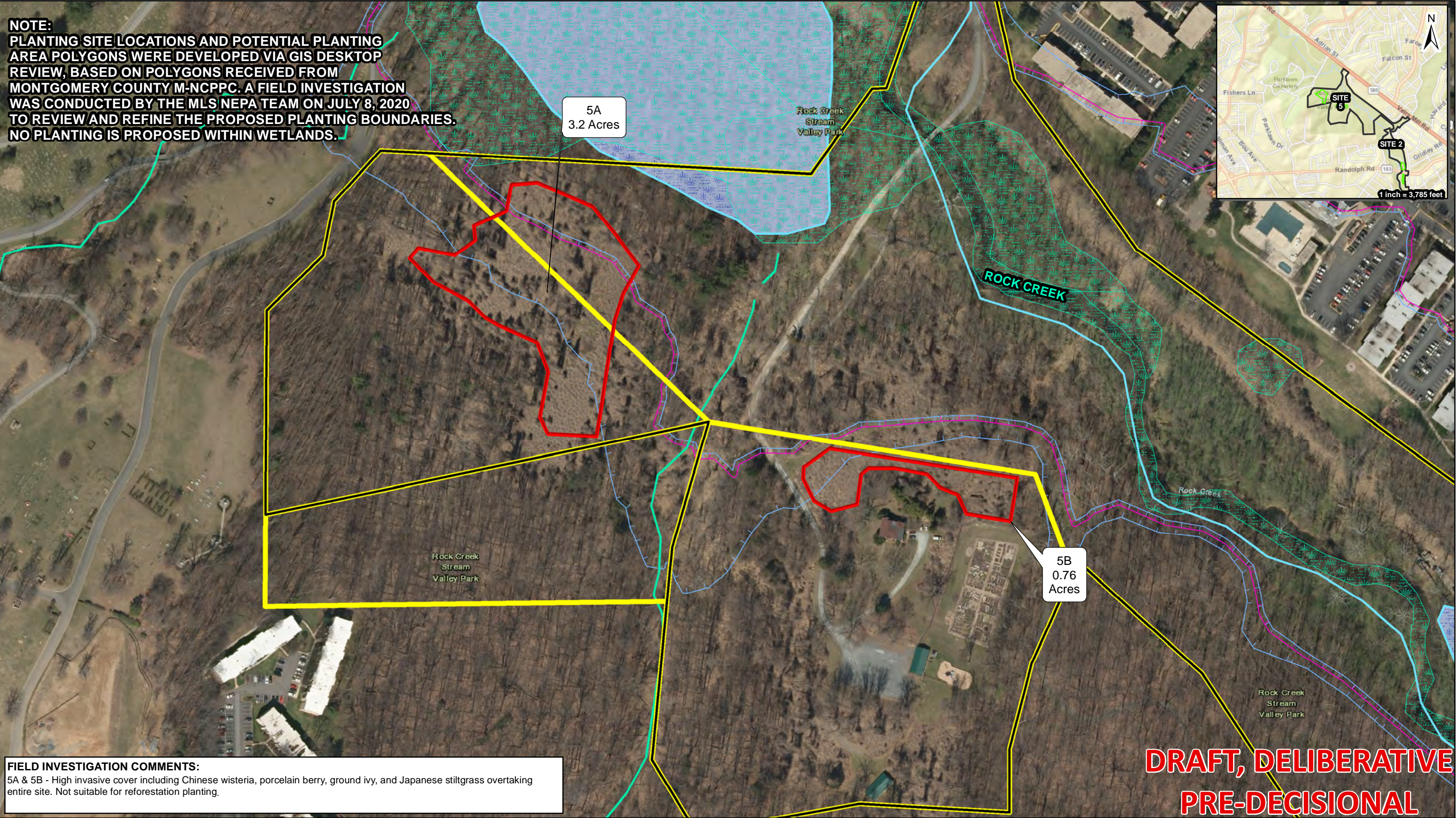
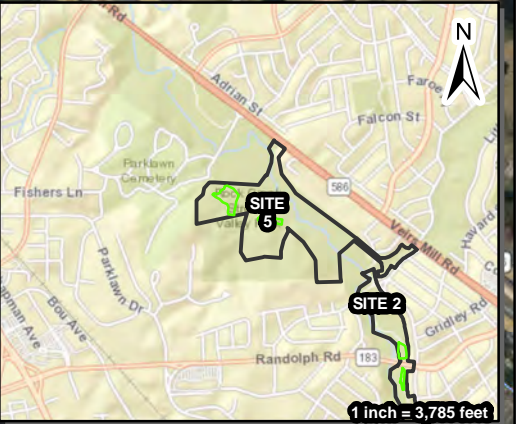
Map 3 of 7

JULY 2020

**MANAGED LANES STUDY**



**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING  
AREA POLYGONS WERE DEVELOPED VIA GIS DESKTOP  
REVIEW, BASED ON POLYGONS RECEIVED FROM  
MONTGOMERY COUNTY M-NCPPC. A FIELD INVESTIGATION  
WAS CONDUCTED BY THE MLS NEPA TEAM ON JULY 8, 2020  
TO REVIEW AND REFINE THE PROPOSED PLANTING BOUNDARIES.  
NO PLANTING IS PROPOSED WITHIN WETLANDS.

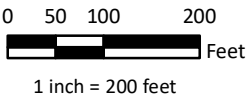


**FIELD INVESTIGATION COMMENTS:**  
5A & 5B - High invasive cover including Chinese wisteria, porcelain berry, ground ivy, and Japanese stiltgrass overtaking entire site. Not suitable for reforestation planting.

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- |                            |   |              |                        |
|----------------------------|---|--------------|------------------------|
| M-NCPPC Parcels            | Potential Planting Conflict               | NWI Waters   | NWI Wetlands           |
| Potential Planting Site    | Planting Areas - Field Review Site Status | DNR Waters   | FEMA 100 Yr Floodplain |
| Previous Planting Boundary | Yes                                       | DNR Wetlands | FEMA 500 Yr Floodplain |
| Existing ICC Ref Site      | No  |              |                        |



**Potential Reforestation Planting Opportunities  
on Montgomery County M-NCPPC Parcels**  
Site 5: Rock Creek SVU 6  
*Upper Rock Creek Watershed - 20700100101*  
**Total Planting Acreage: 0**

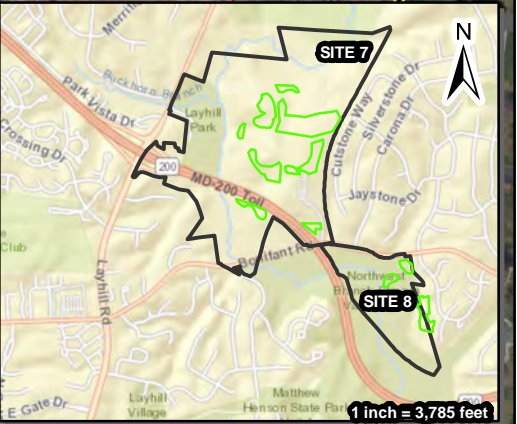
Map 4 of 7

JULY 2020





**NOTE:**  
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**NATIONAL CAPITAL TROLLEY MUSEUM**

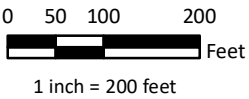
7H  
1.4 Acres

**FIELD INVESTIGATION COMMENTS:**  
7H - Heavy porcelain berry cover, moderate multiflora rose, Bradford pear, Canadian thistle, and milkweed cover. Site requires RTE survey by M-NCPPC staff. Access from Bonifant road or via fence from ICC?

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- |                            |   |              |                        |
|----------------------------|---|--------------|------------------------|
| M-NCPPC Parcels            | Potential Planting Conflict               | NWI Waters   | NWI Wetlands           |
| Potential Planting Site    | Planting Areas - Field Review Site Status | DNR Waters   | FEMA 100 Yr Floodplain |
| Previous Planting Boundary | Yes                                       | DNR Wetlands | FEMA 500 Yr Floodplain |
| Existing ICC Ref Site      | No  |              |                        |

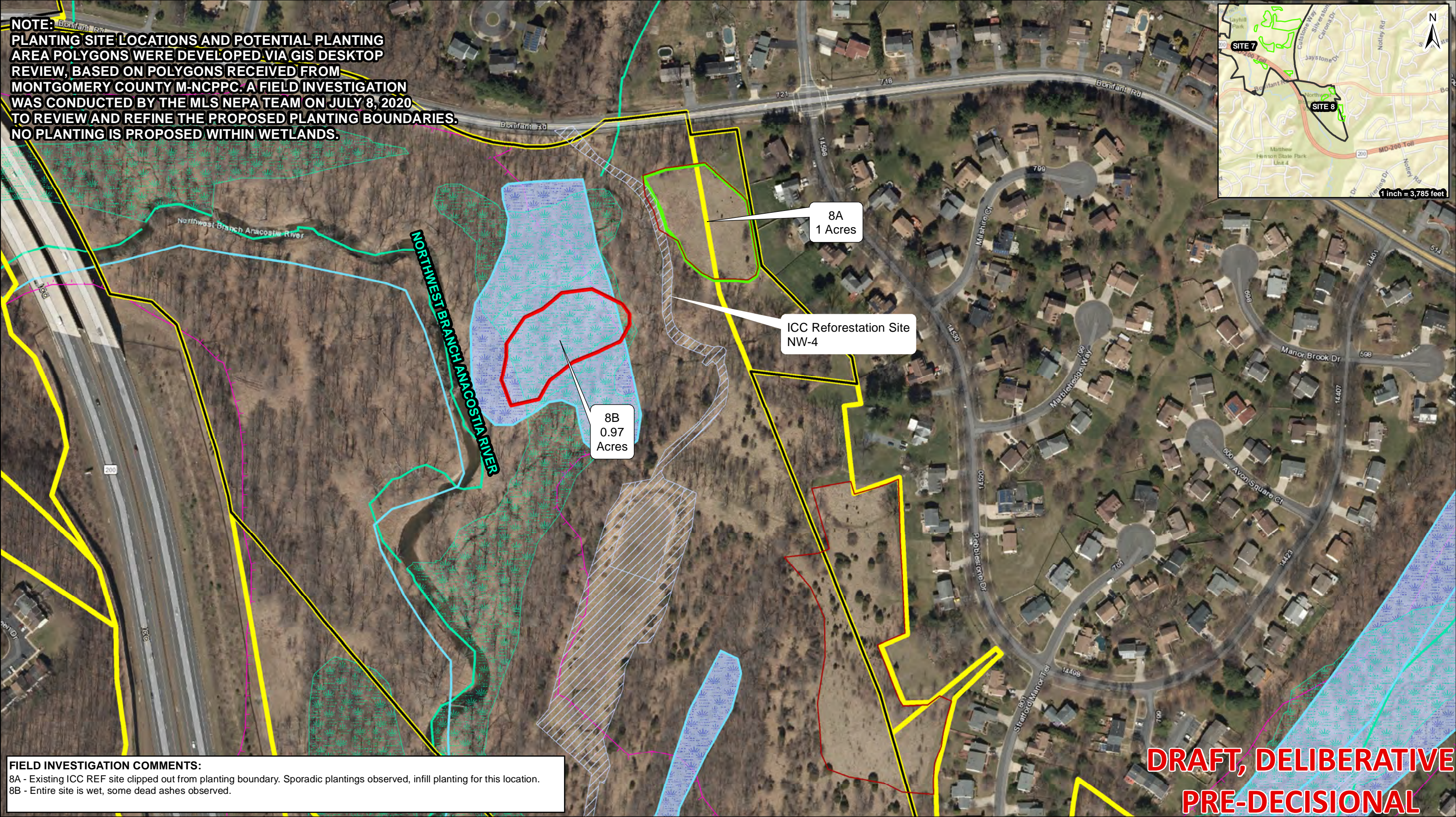
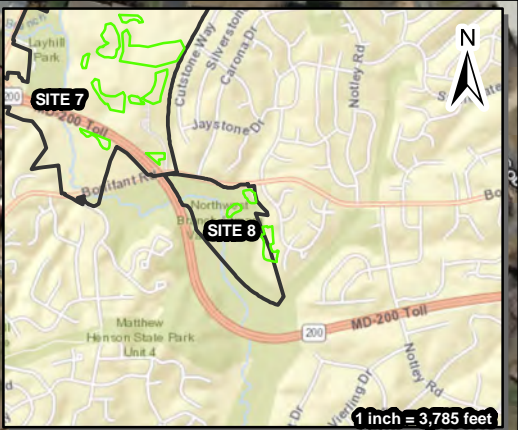


**Potential Reforestation Planting Opportunities  
on Montgomery County M-NCPPC Parcels**  
Site 7: Northwest Branch Recreational Park  
*Northwest Branch Anacostia River Watershed - 20700100201*  
**Total Planting Acreage: 1.4**

Map 5 of 7 JULY 2020



**NOTE:**  
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**FIELD INVESTIGATION COMMENTS:**  
8A - Existing ICC REF site clipped out from planting boundary. Sporadic plantings observed, infill planting for this location.  
8B - Entire site is wet, some dead ashes observed.

**LEGEND**

M-NCPPC Parcels

Potential Planting Site

Previous Planting Boundary

Existing ICC Ref Site

Potential Planting Conflict

Planting Areas - Field Review Site Staus

Yes

No

NWI Waters

DNR Waters

DNR Wetlands

NWI Wetlands

FEMA 100 Yr Floodplain

FEMA 500 Yr Floodplain

0

50

100

200

Feet

1 inch = 200 feet

N

**Potential Reforestation Planting Opportunities  
on Montgomery County M-NCPPC Parcels**  
Site 8: Northwest Branch SVU 5 - South  
Northwest Branch Anacostia River Watershed - 20700100201  
**Total Planting Acreage: 1**

Map 6 of 7

JULY 2020

495

270

MANAGED LANES STUDY



**NOTE:**  
PLANTING SITE LOCATIONS AND POTENTIAL PLANTING AREA POLYGONS WERE DEVELOPED VIA GIS DESKTOP REVIEW, BASED ON POLYGONS RECEIVED FROM MONTGOMERY COUNTY M-NCPPC. A FIELD INVESTIGATION WAS CONDUCTED BY THE MLS NEPA TEAM ON JULY 8, 2020 TO REVIEW AND REFINE THE PROPOSED PLANTING BOUNDARIES. NO PLANTING IS PROPOSED WITHIN WETLANDS.

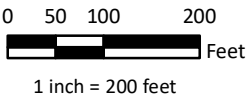


**FIELD INVESTIGATION COMMENTS:**  
9A - Spade trees not observed. Clipped out existing forest and potential ephemeral WUS from northwest corner.

**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**LEGEND**

- |                            |   |              |                        |
|----------------------------|---|--------------|------------------------|
| M-NCPPC Parcels            | Potential Planting Conflict               | NWI Waters   | NWI Wetlands           |
| Potential Planting Site    | Planting Areas - Field Review Site Status | DNR Waters   | FEMA 100 Yr Floodplain |
| Previous Planting Boundary | Yes                                       | DNR Wetlands | FEMA 500 Yr Floodplain |
| Existing ICC Ref Site      | No  |              |                        |



**Potential Reforestation Planting Opportunities  
on Montgomery County M-NCPPC Parcels**  
Site 9: Rock Creek SVU 2  
Lower Rock Creek Watershed - 20700100102  
**Total Planting Acreage: 1.21**

Map 7 of 7

JULY 2020

**MANAGED LANES STUDY**



**From:** [Kate Gordon](#)  
**To:** ["Connelly, Laura"](#)  
**Cc:** [Greg OHare](#); [Anita Alexander](#); [Christina Brandt](#)  
**Subject:** RE: M-NCPPC Prince George's County Planting Opportunities and Tree Canopy Replacement  
**Date:** Friday, July 17, 2020 9:47:18 AM  
**Attachments:** [image001.png](#)  
[image005.png](#)

---

Hi Laura,

Thanks for letting me know. We'll note that in the meeting summary.

Take care,  
 Kate

---

**From:** Connelly, Laura <Laura.Connelly@pgparks.com>  
**Sent:** Friday, July 17, 2020 9:04 AM  
**To:** Kate Gordon <kgordon@rkk.com>  
**Cc:** Greg OHare <gohare@rkk.com>; Anita Alexander <aalexander@rkk.com>; Christina Brandt <CBrandt@mdot.maryland.gov>  
**Subject:** RE: M-NCPPC Prince George's County Planting Opportunities and Tree Canopy Replacement

Thank you Kate. Due to the timing of the project, we are going to let the field go at this time... meaning we are not going to mow them for years. Additionally, thank you for the confirmation on the tree canopy. I appreciate your follow-up.

Laura

---

**From:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Sent:** Friday, July 17, 2020 7:57 AM  
**To:** Connelly, Laura <[Laura.Connelly@pgparks.com](mailto:Laura.Connelly@pgparks.com)>  
**Cc:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>  
**Subject:** M-NCPPC Prince George's County Planting Opportunities and Tree Canopy Replacement

Hi Laura,

We are finalizing the meeting notes to document our discussions on 5/29 and 6/5 and wanted to follow up about the large farm fields you mentioned that M-NCPPC had recently acquired and may be available for planting. Would you like those to be considered/included in the MLS reforestation mitigation site search report? If so, please provide a map or description of the location of the fields. As discussed, the exact schedule for planting is not clear at this time and will be determined once the P3 Developer is on board next year.

We did hear back from DNR in regards to your question about tree canopy replacement as reforestation credit. DNR indicated that street tree planting and/or canopy replacement will not be



allowed for MLS Reforestation Law mitigation credit.

Thank you,

- Kate

---

**KATE GORDON, PWS, CA, LTE**  
Project Manager



700 East Pratt Street, Suite 500  
Baltimore, MD 21202

410.728.2900 P | 410.462.9131 D | 301.448.8903 C  
[www.rkk.com](http://www.rkk.com)

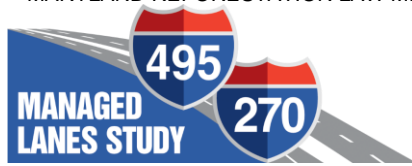
**Responsive People | Creative Solutions**



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**I-495 & I-270 Managed Lanes Study  
M-NCPPC Prince George's County - Forest Mitigation Desktop Review  
May 29, 2020 @ 10:00 AM**

**Attendees:**

Name	Agency	Phone	Email
Laura Connelly	M-NCPPC Prince George's	301-699-2438	<a href="mailto:Laura.Connelly@pgparks.com">Laura.Connelly@pgparks.com</a>
Maria Martin	M-NCPPC Prince George's	301-952-3472	<a href="mailto:Maria.Martin@ppd.mncppc.org">Maria.Martin@ppd.mncppc.org</a>
Chrissy Brandt	MDOT SHA P3	410-545-8526	<a href="mailto:CBrandt@mdot.maryland.gov">CBrandt@mdot.maryland.gov</a>
Kate Gordon	MDOT SHA P3	410-962-9131	<a href="mailto:kgordon@rkk.com">kgordon@rkk.com</a>
Greg O'Hare	MDOT SHA P3	410-462-9165	<a href="mailto:gohare@rkk.com">gohare@rkk.com</a>
Anita Alexander	MDOT SHA P3	410-462-9358	<a href="mailto:aalexander@rkk.com">aalexander@rkk.com</a>

**Meeting Summary**

A desktop review meeting was conducted on May 29, 2020 with M-NCPPC Prince George's County staff to discuss potential forest mitigation sites for the I-495 & I-270 Managed Lanes Study (MLS). A summary of the topics discussed at the meeting follows.

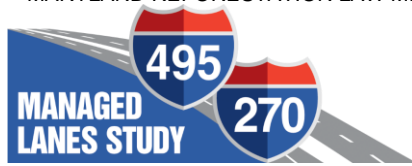
**Introductions**

Participants met virtually via a MS Teams meeting. The meeting began with introductions. Kate Gordon gave an overview of the coordination to date to identify potential reforestation sites on M-NCPPC property for MLS Reforestation Law mitigation. She explained that Chesapeake Environmental Management (CEM) is assisting with the public outreach coordination and had previously coordinated with staff at the City of College Park and the Town of Riverdale Park who suggested coordinating with M-NCPPC Prince George's staff about potential planting opportunities on M-NCPPC property within the City of College Park and the Town of Riverdale Park.

The following is a summary of the discussion before the group discussed specific sites:

- Laura asked for clarification about the proposed reforestation planting to understand whether it is acceptable to mow under the planted trees, or if the intent is to create forested areas? Kate clarified that the intent is to create forested areas with full understory habitat.
- Laura asked if the planting sites must be protected in perpetuity. Greg stated that this topic is currently being discussed with DNR. The MLS team will share DNR's decision as soon as a determination is made.
- Laura clarified that M-NCPPC Prince George's does not have any available planting areas of 5 acres or greater at a single location. There are various smaller planting opportunities throughout the City of College Park and the Town of Riverdale Park that may provide a combined total of 5 acres.





## College Park and Riverdale Potential Planting Opportunities

- Laura gave a short presentation about potential planting opportunities in the City of College Park and the Town of Riverdale Park. Potential opportunities in each municipality are listed below:
  - College Park
    - Lake Artemesia – there is several hundred square feet of open area available along the lake.
      - *Insufficient area for MLS reforestation mitigation needs.*
  - Riverdale
    - NE Branch Trail, Anacostia Tributary Trail System – Floodway area that was previously discussed with Seth Hinder (CEM) is not available. However, there are buffer planting opportunities along the west side of the trail near a ballfield at Riverside Neighborhood Park.

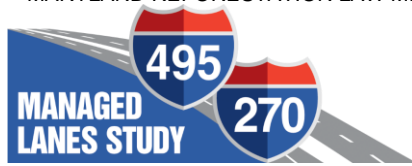
## Other Planting Opportunities

- Overall, there are marginal opportunities for reforestation plantings on M-NCPPC Prince George's properties in fully developed parks. Open areas in parks are currently dedicated for ballfields or warm up areas. There are some limited opportunities to plant shade trees along the perimeter of some parks.
- Laura asked if special consideration could be made for highly urbanized areas like Prince George's County to allow some amount of street/roadside tree planting for reforestation credit. Laura mentioned there are numerous opportunities for tree planting along local and state roads throughout the county. This may be the best way to mitigate forest impacts in Prince George's County. The MLS team will follow up with DNR to determine whether tree canopy replacement would be accepted for Reforestation Law mitigation for the MLS.
- Laura mentioned that M-NCPPC Prince George's recently purchased farm properties in the Patuxent River watershed. Agriculture leases will not occupy 100% of the footprint from the previous lease. There may be up to 25 acres available for reforestation, but M-NCPPC may not want to delay reforestation of the sites until they can be planted as MLS mitigation. M-NCPPC could potentially mow the areas until they can be planted by the MLS P3 Developer.
- Laura asked whether planting on private lands is permitted and Kate clarified that Reforestation Law requires planting on public lands.

## Action Items:

- The MLS team will ask DNR whether tree canopy replacement could be allowed as Reforestation Law mitigation.
  - *DNR indicated in an email on 6/26/20 that street tree planting and/or canopy replacement will not be allowed for MLS Reforestation Mitigation credit.*
- M-NCPPC Prince George's will verify exact acreage available on the farm properties and confirm it is available for tree planting and any associated requirements (including timing of planting).
  - *Laura Connelly indicated in an email on 7/17/20 that the fields will not be available for MLS forest mitigation since M-NCPPC will not continue to mow them.*





- The MLS NEPA team will reach out the City of College Park and see if there are any other opportunities. Laura would still like to meet with the City to discuss planting opportunities.
  - *The MLS NEPA team held a meeting on 6/5/2020 with staff from M-NCPPC Prince George's and the City of College Park. See meeting minutes for a summary of the discussion.*



## Anita Alexander

---

**From:** Kate Gordon  
**Sent:** Monday, March 2, 2020 7:38 AM  
**To:** Greg OHare; Caryn Brookman (Consultant)  
**Cc:** Christina Brandt; 'Stacy Talmadge (Consultant)'; Anita Alexander  
**Subject:** FW: Prince George's County M-NCPPC FCE Impacts and Planting Opportunities

FYI

---

**From:** Connelly, Laura <Laura.Connelly@pgparks.com>  
**Sent:** Friday, February 28, 2020 9:25 AM  
**To:** Jennifer Hannum <jennifer@blueheronenvironmental.com>; Kate Gordon <kgordon@rkk.com>  
**Cc:** Ewing, Sonja <Sonja.Ewing@Pgparks.com>; Finch, Kim <Kim.Finch@ppd.mncppc.org>  
**Subject:** RE: Prince George's County M-NCPPC FCE Impacts and Planting Opportunities

Good morning Kate and Jennifer, I do not know the answer about mitigation requirements when impacting an existing TCP2. However, Please contact Megan Reiser out of our Environmental Planning Section in Upper Marlboro. Her section reviews and approves all TCPs, NRI's etc... in this County. Megan can be reached via phone at 301-952-3752. She is also included on this email.

As far as tree reforestation areas available on MNCPPC property in Prince George's County we do not have land available for the MLS. We try to balance our agricultural "no net loss of tillable acres" and our own Tree Conservation Needs. Currently the Department of Parks and Recreation owns about 29,000 acres of land, of this, 19,000 acres is held in wooded canopy, 27 stream valley parks and sensitive habitat area. Approximately 10,000 acres is developed, or open for parks and recreation needs. This includes about 1,500 acres of tillable farm land, and 1,000 acres of managed meadows, butterfly habitat and related programming. Each year, we really comb through our inventory looking places to plant trees with volunteers and areas that can naturally regenerate for other programmatic needs and we just don't have sizeable acres that are sitting "idle".

There are however, opportunities beyond MNCPPC lands. For example there are at least three bankrupt golf courses in the county that we would love to discuss with MSHA for the possibility of tree banking. I mentioned these to Jason Reel last week during a conversation about mitigation while we were at the project offices for Mitigation review meeting. These golf courses are Cross Creek, located off of Old Gunpowder Road in Beltsville, Lake Arbor County Club, off of Lake Arbor Way in Largo, and Marlboro Country Club in Upper Marlboro. All three of these course have open spaces that could be converted to reforestation areas, as well as a cart path system could be retained or repurposed as active trail. There are also, flat open spaces beyond the fairways that can be converted to useable recreation space. We would love to sit down with the project to discuss some of these options.

In my conversation with Justin, I also mentioned the BARC and MSHA lands along the Patuxent. With regards to BARC, there are a number of streams on the South Farm that have absolutely no stream buffer. BARC has been approached many times over the years with requests from MNCPPC, MWCOG and others to increase a wooded buffer area along these important Anacostia Watershed tributaries. Since this is a project involving Federal Highways, we were hoping the project could approach BARC with a request for mitigation opportunities. BARC is in the process of liquidating some of their operations to the Midwest and if opportunities to rethink their land management strategies exist, this may be THE opportune time to look at the BARC lands. This is also in close proximity to the project area and would provide meaningful mitigation. With regards to the State of Maryland, they own approximately 6,500 acres along the Patuxent River and may have opportunities to support your needs as well.



Finally, there are a number of farmers in the Southern portion of the County that may be open to allowing these reforestation areas to occur on their lands for a mitigation payment. We may be able to connect you to interested parties.

I hope this information is useful to you. Should you have question, if you need more information or if you would like to discuss this in detail, please contact me. Thanks you for the opportunity to provide this information to you.

Laura Connelly, Acting Park Planning Supervisor  
Department of Parks and Recreation  
6600 Kenilworth Avenue, Suite 301  
Riverdale, MD 20737

301-699-2438 | Office and Mobile

Stay connected:




---

**From:** Jennifer Hannum <[jennifer@blueheronenvironmental.com](mailto:jennifer@blueheronenvironmental.com)>  
**Sent:** Thursday, February 27, 2020 8:46 AM  
**To:** Connelly, Laura <[Laura.Connelly@pgparks.com](mailto:Laura.Connelly@pgparks.com)>  
**Subject:** FW: Prince George's County M-NCPPC FCE Impacts and Planting Opportunities

Hi Laura. Just following up on this email too. Do you know the answers to the questions below or can you point me to the person to speak to?

---

**From:** Jennifer Hannum <[jennifer@blueheronenvironmental.com](mailto:jennifer@blueheronenvironmental.com)>  
**Date:** Wednesday, February 19, 2020 at 8:48 AM  
**To:** "Connelly, Laura" <[Laura.Connelly@pgparks.com](mailto:Laura.Connelly@pgparks.com)>  
**Subject:** FW: Prince George's County M-NCPPC FCE Impacts and Planting Opportunities

I received this email below but am not quite sure how to answer the questions. Do you know the answer to these questions?

---

**From:** Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Date:** Friday, February 14, 2020 at 8:58 AM  
**To:** "jennifer@blueheronenvironmental.com" <[jennifer@blueheronenvironmental.com](mailto:jennifer@blueheronenvironmental.com)>  
**Cc:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>, "Caryn Brookman (Consultant)" <[CBrookman.consultant@mdot.maryland.gov](mailto:CBrookman.consultant@mdot.maryland.gov)>, Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>, "Stacy Talmadge (Consultant)" <[STalmadge.consultant@mdot.maryland.gov](mailto:STalmadge.consultant@mdot.maryland.gov)>  
**Subject:** Prince George's County M-NCPPC FCE Impacts and Planting Opportunities

Hi Jen,



We understand that there is a MLS meeting scheduled with Prince George's County M-NCPPC on 3/2. We are planning to attend and would like to discuss a couple of items related to forest mitigation and impacts to Forest Conservation Easements, specifically:

- 1) What is the process for mitigating direct impacts to existing FCEs?
- 2) Does M-NCPPC have any planting opportunities available that the MLS project could plant for Reforestation Law mitigation?

Please let us know if you have any questions in advance of the meeting. Otherwise, we look forward to discussing these topics further on March 2<sup>nd</sup>.

Thank you!

- Kate

---

**KATE GORDON, PWS, CA, LTE**  
Project Manager



700 East Pratt Street, Suite 500  
Baltimore, MD 21202

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**From:** [Marra, Michael](#)  
**To:** [Evelyn, Terrence M](#)  
**Cc:** [Mills, Marvin D](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Monday, August 24, 2020 9:53:00 AM  
**Attachments:** [image012.png](#)  
[image013.png](#)  
[image015.png](#)  
[image016.png](#)  
[image017.png](#)  
[image018.png](#)  
[image020.png](#)  
[image005.png](#)  
[image006.png](#)


Good morning Evelyn,

I just wanted to follow-up to see if you could provide a status regarding the evaluation for reforestation opportunities within Montgomery College campus/property. Please let me know if you have any questions or need more information.

Thanks,  
Mike




Mike Marra  
 Consultant for Maryland Department of Transportation, State Highway Administration  
 email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
 cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

 Applying Practical Science to Improve Communities	<b>Michael Marra</b> <b>Environmental Scientist</b> Resource Assessment & Permitting <a href="mailto:mmarra@cemscience.com">mmarra@cemscience.com</a> cell: (302) 290-9245	 est. 1993
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**From:** Mills, Marvin D [mailto:marvin.mills@montgomerycollege.edu]  
**Sent:** Tuesday, June 23, 2020 1:38 PM



**To:** Marra, Michael <mmarra@cemscience.com>; Evelyn, Terrence M <terrence.evelyn@montgomerycollege.edu>  
**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>; gohare@rkk.com; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>  
**Subject:** Re: I -495/I-270 MLS Reforestation Mitigation

Mr. Marra,  
 I'll have Mr. Evelyn contact you.

**BE SAFE!!**

**Marv**

Marvin D. Mills, Jr.  
 VP for Facilities  
 Montgomery College  
 240-567-9141  
[marvin.mills@montgomerycollege.edu](mailto:marvin.mills@montgomerycollege.edu)

The ultimate measure of a man is not where he stands in moments of comfort and convenience, but where he stands (*and acts*) at times of challenge and controversy - Martin Luther King, Jr. (*paraphrase by me*)

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**From:** Marra, Michael <mmarra@cemscience.com>  
**Sent:** Tuesday, June 23, 2020 1:16 PM  
**To:** Mills, Marvin D <[marvin.mills@montgomerycollege.edu](mailto:marvin.mills@montgomerycollege.edu)>  
**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com) <[gohare@rkk.com](mailto:gohare@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Good afternoon Mr. Mills,  
 I just wanted to follow-up to see if you could provide a status regarding the evaluation by the Director of College-wide facilities for reforestation opportunities. Please let me know if you have any questions or need more information.

Thanks,  
 Mike

Mike Marra



Consultant for Maryland Department of Transportation, State Highway Administration  
 email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
 cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

---




**Michael Marra**  
**Environmental Scientist**  
 Resource Assessment & Permitting  
[mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
 cell: (302) 290-9245



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**From:** Mills, Marvin D [<mailto:marvin.mills@montgomerycollege.edu>]  
**Sent:** Thursday, April 02, 2020 8:36 PM  
**To:** Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>  
**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Subject:** Re: I -495/I-270 MLS Reforestation Mitigation

Forwarded to the Director of College-wide Facilities for evaluation.

**Marv**

Marvin D. Mills, Jr.  
 VP for Facilities  
 Montgomery College  
 240-567-9141  
[marvin.mills@montgomerycollege.edu](mailto:marvin.mills@montgomerycollege.edu)

The ultimate measure of a man is not where he stands in moments of comfort and convenience, but where he stands (*and acts*) at times of challenge and controversy - Martin Luther King, Jr. (*paraphrase by me*)

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**From:** Marra, Michael <[mmarra@cemsience.com](mailto:mmarra@cemsience.com)>  
**Sent:** Thursday, April 2, 2020 9:13 AM  
**To:** Mills, Marvin D <[marvin.mills@montgomerycollege.edu](mailto:marvin.mills@montgomerycollege.edu)>  
**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>;  
[gohare@rkk.com](mailto:gohare@rkk.com) <[gohare@rkk.com](mailto:gohare@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon  
 <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Good morning Mr. Mills,

I am following up once again regarding potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Montgomery College. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

---

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**From:** Marra, Michael

**Sent:** Friday, February 28, 2020 2:49 PM

**To:** 'marvin.mills@montgomerycollege.edu' <[marvin.mills@montgomerycollege.edu](mailto:marvin.mills@montgomerycollege.edu)>

**Subject:** FW: I -495/I-270 MLS Reforestation Mitigation

Good afternoon Mr. Mills,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities on properties owned Montgomery College. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

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**From:** Marra, Michael

**Sent:** Wednesday, February 05, 2020 2:24 PM

**To:** 'marvin.mills@montgomerycollege.edu' <[marvin.mills@montgomerycollege.edu](mailto:marvin.mills@montgomerycollege.edu)>

**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Subject:** I -495/I-270 MLS Reforestation Mitigation



Dear Mr. Mills,

Thank you for taking time to speak with me. Per our conversation, below is some additional information:

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Montgomery College. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites. For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

---

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**From:** [Kate Gordon](#)  
**To:** ["Seth\\_P\\_Adams@mcpsmd.org"](#)  
**Cc:** ["Donna\\_L\\_Gazdowicz@mcpsmd.org"](#); [Greg OHare](#); [Anita Alexander](#); ["Bob Maimone"](#)  
**Subject:** RE: Reforestation Opportunities on MCPS Property for I-495/I-270 MLS Mitigation  
**Date:** Friday, September 11, 2020 3:23:43 PM  
**Attachments:** [image001.png](#)  
[image005.png](#)

---

Good afternoon,

I am following up on this inquiry about potential reforestation opportunities on MCPS property. Since we have not received a response, we are assuming there are no viable opportunities. Please let me know if that is not the case.

Thank you!

- Kate

---

**From:** Kate Gordon  
**Sent:** Tuesday, July 21, 2020 12:08 PM  
**To:** 'Seth\_P\_Adams@mcpsmd.org' <Seth\_P\_Adams@mcpsmd.org>  
**Cc:** 'Donna\_L\_Gazdowicz@mcpsmd.org' <Donna\_L\_Gazdowicz@mcpsmd.org>; Greg OHare <gohare@rkk.com>; 'Christina Brandt' <CBrandt@mdot.maryland.gov>; Anita Alexander <aalexander@rkk.com>  
**Subject:** Reforestation Opportunities on MCPS Property for I-495/I-270 MLS Mitigation

Dear Mr. Adams,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Montgomery County Public Schools. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and



are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Kate Gordon

Consultant for Maryland Department of Transportation, State Highway Administration

---

**KATE GORDON, PWS, CA, LTE**  
Project Manager



700 East Pratt Street, Suite 500  
Baltimore, MD 21202

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**From:** [Marra, Michael](#)  
**To:** ["mayor@morningsidemd.gov"](mailto:mayor@morningsidemd.gov)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](mailto:cbrandt@mdot.maryland.gov); [gohare@rkk.com](mailto:gohare@rkk.com); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Thursday, April 02, 2020 3:14:00 PM  
**Attachments:** [image005.png](#)  
[image006.png](#)  
[image008.png](#)  
[image009.png](#)

Good afternoon Mr. Cann,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in Morningside. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

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<p>42 N. Main Street   Bel Air, MD 21014          phone: 410.893.9016   Visit us at <a href="http://www.cemsience.com">www.cemsience.com</a></p> <p><i>This email may contain confidential information intended for the sole use of the recipient. Unauthorized use of this information is prohibited. If you received this email in error please notify sender. Thank you!</i></p> <div style="text-align: right;">    </div>		

**From:** Marra, Michael

**Sent:** Wednesday, February 12, 2020 3:35 PM

**To:** 'mayor@morningsidemd.gov' <mayor@morningsidemd.gov>

**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>;  
 gohare@rkk.com; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>

**Subject:** I -495/I-270 MLS Reforestation Mitigation



Dear Mr. Cann,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Morningside. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
cell (302) 290 9245

---

 <p>Applying Practical Science to Improve Communities</p>	<p><b>Michael Marra</b>  <b>Environmental Scientist</b>          Resource Assessment &amp; Permitting  <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a>          cell: (302) 290-9245</p>	
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**From:** [Gabriel Popkin](#)  
**To:** [Marra, Michael](#)  
**Cc:** [trees@20712.org](#); [Christina Brandt \(cbrandt@mdot.maryland.gov\)](#); [gohare@rkk.com](#); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** Re: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Thursday, February 13, 2020 8:48:07 AM  
**Attachments:** [image008.png](#)  
[image009.png](#)

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Hi Mike,

First of all, I'm just a volunteer tree commissioner in Mount Rainier, MD, not part of any agency. Secondly, and more relevant to your question, Mount Rainier is a small, densely populated city with very little open space. We don't have any parcels even close to your 5-acre minimum requirement.

Best,  
Gabriel

On Wed, Feb 12, 2020 at 10:46 AM Marra, Michael <[mmarra@cemsience.com](mailto:mmarra@cemsience.com)> wrote:

Dear Mr. Popkin,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Mount Rainer. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.



Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

cell (302) 290 9245

 <p><i>Applying Practical Science to Improve Communities</i></p>	<p><b>Michael Marra</b></p> <p><b>Environmental Scientist</b> Resource Assessment &amp; Permitting</p> <p><a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a></p> <p>cell: (302) 290-9245</p>	
<p>42 N. Main Street   Bel Air, MD 21014</p>		
<p>phone: 410.893.9016   Visit us at <a href="http://www.cemsience.com">www.cemsience.com</a></p>		
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--

Gabriel Popkin

Science & environmental writer

[www.gabrielpopkin.com](http://www.gabrielpopkin.com)

859-619-4769



**From:** [Marra, Michael](#)  
**To:** "Brad Pudner"  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](#); [gohare@rkk.com](#); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Friday, February 14, 2020 2:36:00 PM  
**Attachments:** [image008.png](#)  
[image009.png](#)  
[image002.png](#)  
[image003.png](#)

Hi Brad,

Unfortunately curbside tree planting does not meet the reforestation criterion. Please let us know if are aware of any other opportunities.

Thanks,  
Mike

 Applying Practical Science to Improve Communities	<b>Michael Marra</b> <b>Environmental Scientist</b> Resource Assessment & Permitting <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a> cell: (302) 290-9245	 est. 1993
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**From:** Brad Pudner [mailto:bpudner@newcarrolltonmd.gov]  
**Sent:** Thursday, February 13, 2020 9:00 AM  
**To:** Marra, Michael <mmarra@cemsience.com>  
**Subject:** Re: I -495/I-270 MLS Reforestation Mitigation

Hi Mike,

Nice talking to you yesterday! Would curb trees throughout the city qualify for this program if I gave a list of addresses? If so, do you know what size would be planted? Usually we try to do a minimum size of 15 gal or 1.5" caliber to meet expectations of residents. If that wouldn't qualify, then we probably wouldn't have any other options here.

Regards,

Brad Pudner  
 Horticulturist  
 Department of Public Works



City of New Carrollton  
(301) 577-1008

On Wed, Feb 12, 2020 at 3:46 PM Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)> wrote:

Hi Brad,


Thanks again for taking a moment to talk to me today regarding forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. To reiteration, we are looking for potential tree planting sites that are 5 acres or larger, but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Based on our conversation, you may have some planting opportunities that meet this criterion. Once you take a closer look at what might be available in New Carrollton, please let us know and we can schedule a field meeting to evaluate the site.

Thank you for your time and consideration,


Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
cell (302) 290 9245

---



**Michael Marra**  
**Environmental Scientist**  
Resource Assessment & Permitting  
[mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
cell: (302) 290-9245



est. 1993

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Thank you!*





**From:** [Marra, Michael](#)  
**To:** ["townmanager@northbrentwood.com"](mailto:townmanager@northbrentwood.com)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](mailto:cbrandt@mdot.maryland.gov); [gohare@rkk.com](mailto:gohare@rkk.com); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Thursday, April 02, 2020 3:30:00 PM  
**Attachments:** [image002.png](#)  
[image003.png](#)  
[image005.png](#)  
[image006.png](#)

Good afternoon Ms. Goodall,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in town of North Brentwood. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

 <p>Applying Practical Science to Improve Communities</p>	<p><b>Michael Marra</b>  <b>Environmental Scientist</b>  Resource Assessment &amp; Permitting  <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a>  cell: (302) 290-9245</p>	
<p>42 N. Main Street   Bel Air, MD 21014  phone: 410.893.9016   Visit us at <a href="http://www.cemsience.com">www.cemsience.com</a></p> <p><i>This email may contain confidential information intended for the sole use of the recipient. Unauthorized use of this information is prohibited. If you received this email in error please notify sender. Thank you!</i></p> <div style="text-align: right;">    </div>		

**From:** Marra, Michael

**Sent:** Wednesday, February 12, 2020 10:58 AM

**To:** 'townmanager@northbrentwood.com' <townmanager@northbrentwood.com>

**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>;  
gohare@rkk.com; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>

**Subject:** I -495/I-270 MLS Reforestation Mitigation



Dear Ms. Goodall,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the town of North Brentwood. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.


For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
cell (302) 290 9245

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 <p>Applying Practical Science to Improve Communities</p>	<p><b>Michael Marra</b>  <b>Environmental Scientist</b>          Resource Assessment &amp; Permitting  <a href="mailto:mmarra@cemscience.com">mmarra@cemscience.com</a>          cell: (302) 290-9245</p>	
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**From:** [nccinfo@northchevyCHASE.org](mailto:nccinfo@northchevyCHASE.org)  
**To:** [Marra, Michael](#)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](#); [gohare@rkk.com](mailto:gohare@rkk.com); [Kate Gordon](#); [Anita Alexander](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Friday, August 14, 2020 7:18:48 PM

---

Thank you for getting back to us, Mike.

Best,

Dana Peterson  
 Manager  
 Village of North Chevy Chase  
 Mobile: 301-654-7084

-----Original Message-----

From: "Marra, Michael" <[mmarra@cemsience.com](mailto:mmarra@cemsience.com)>  
 Sent: Thursday, August 13, 2020 1:11pm  
 To: "Village" <[nccinfo@northchevyCHASE.org](mailto:nccinfo@northchevyCHASE.org)>  
 Cc: "Christina Brandt (cbrandt@mdot.maryland.gov)" <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>, "[gohare@rkk.com](mailto:gohare@rkk.com)" <[gohare@rkk.com](mailto:gohare@rkk.com)>, "[Kate Gordon](mailto:kgordon@rkk.com)" <[kgordon@rkk.com](mailto:kgordon@rkk.com)>, "[Anita Alexander](mailto:aalexander@rkk.com)" <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
 Subject: RE: I -495/I-270 MLS Reforestation Mitigation

Good afternoon Dana,

I apologize that it has taken so long to get back to you regarding the planting opportunities in North Chevy Chase. I hope you are doing well – I am sure the last several months have been challenging. After careful consideration, the MLS Reforestation team has determined that the proposed planting areas do not meet our criteria. Thanks for your time and consideration!

Mike

[CEM\_Logo\_FullMetal]  
 Michael Marra  
 Environmental Scientist  
 Resource Assessment & Permitting  
[mmarra@cemsience.com](mailto:mmarra@cemsience.com) <<mailto:mmarra@cemsience.com>>  
 cell: (302) 290-9245

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 [SocialMedia]

From: Village [<mailto:nccinfo@northchevyCHASE.org>]  
 Sent: Wednesday, March 04, 2020 4:42 PM  
 To: Marra, Michael <[mmarra@cemsience.com](mailto:mmarra@cemsience.com)>  
 Cc: Christina Brandt (cbrandt@mdot.maryland.gov) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Hinder, Seth <[SHinder@cemsience.com](mailto:SHinder@cemsience.com)>  
 Subject: Re: I -495/I-270 MLS Reforestation Mitigation

Hi Mike - Here are the areas:

1) at the end of the 3800 block of Inverness Dr (Chevy Chase 20815) near Connecticut Ave - there is a storm drain with some trees and green space



- 2) behind a chain link fence along the 3800 block of Inverness Dr (Chevy Chase 20815) between the fence and I-495
- 3) at the corner/intersection of northbound Connecticut Ave and Kensington Parkway

Please let me know if I can clarify anything. Thank you!

Dana Peterson  
Manager  
Village of North Chevy Chase  
Mobile: 301-654-7084

---

From: Marra, Michael <mmarra@cemscience.com<<mailto:mmarra@cemscience.com>>>  
Sent: Wednesday, March 4, 2020 2:59 PM  
To: nccinfo@northchevyCHASE.org<<mailto:nccinfo@northchevyCHASE.org>>  
Cc: Christina Brandt (cbrandt@mdot.maryland.gov<<mailto:cbrandt@mdot.maryland.gov>>);  
gohare@rkk.com<<mailto:gohare@rkk.com>>; Kate Gordon; Anita Alexander; Hinder, Seth  
Subject: I -495/I-270 MLS Reforestation Mitigation

Hello Dana,  
I have been coordinating with the project team regarding the potential reforestation opportunities we discussed on the phone (2/24). Could you please provide me with the specific location of the two parcels that you mentioned were either county or SHA property? The project team would like to investigate these areas a little further.

Thanks so much,  
Mike

[CEM\_Logo\_FullMetal]  
Michael Marra  
Environmental Scientist  
Resource Assessment & Permitting  
mmarra@cemscience.com<<mailto:mmarra@cemscience.com>>  
cell: (302) 290-9245  
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[SocialMedia]



**From:** [Marra, Michael](#)  
**To:** ["srivard@poolesvillemd.gov"](mailto:srivard@poolesvillemd.gov)  
**Cc:** ["Christina Brandt \(cbrandt@mdot.maryland.gov\)"](mailto:Christina.Brandt@mdot.maryland.gov); ["gohare@rkk.com"](mailto:gohare@rkk.com); ["Kate Gordon"](#); ["Anita Alexander"](#); ["jstrong@clarkazar.com"](mailto:jstrong@clarkazar.com)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Thursday, August 13, 2020 1:25:00 PM  
**Attachments:** [image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)  
[image010.png](#)  
[image012.png](#)  
[image013.png](#)  
[image015.png](#)  
[image016.png](#)

Good afternoon Seth,  
 Just wanted to follow-up once again regarding potential forest mitigation opportunities in Poolsville. Please let me know if you have given this anymore consideration.

Thanks again,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245



**Michael Marra**  
**Environmental Scientist**  
 Resource Assessment & Permitting  
[mmarra@cemsience.com](mailto:mmarra@cemsience.com)  
 cell: (302) 290-9245



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**From:** Marra, Michael  
**Sent:** Wednesday, June 03, 2020 10:14 AM  
**To:** [srivard@poolesvillemd.gov](mailto:srivard@poolesvillemd.gov)  
**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; [jstrong@clarkazar.com](mailto:jstrong@clarkazar.com)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation



Good Morning Seth,

I just wanted to check in. The I -495/I-270 MLS Reforestation Mitigation Team mentioned that they had a call with Marian Honeczky (DNR Forest Service). Marian mentioned that DNR has been in contact with John Strong about potential planting opportunities in Poolesville. The project team asked me to follow-up with you and Mr. Strong. Please let us know if there is anything we can do to help.

Thanks,  
Mike

---

 <p><b>CEM</b> Applying Practical Science to Improve Communities</p>	<p><b>Michael Marra</b> <b>Environmental Scientist</b> Resource Assessment &amp; Permitting <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a> cell: (302) 290-9245</p>	
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**From:** Marra, Michael  
**Sent:** Monday, April 13, 2020 9:30 AM  
**To:** [srivard@poolesvillemd.gov](mailto:srivard@poolesvillemd.gov)  
**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Good Morning Seth,

I hope all is well and you are safe and healthy. I just wanted to follow-up with you regarding the outcome of the April 6 town commissioners meeting (if it was able to take place).

Thanks,  
Mike

---

**Michael Marra**  
**Environmental Scientist**  
Resource Assessment & Permitting





Applying Practical Science to Improve Communities

[mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245



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**From:** [srivard@poolesvillemd.gov](mailto:srivard@poolesvillemd.gov) [<mailto:srivard@poolesvillemd.gov>]

**Sent:** Monday, March 16, 2020 6:33 PM

**To:** Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>

**Cc:** 'Christina Brandt' <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; 'Anita Alexander' <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; [gohare@rkk.com](mailto:gohare@rkk.com); 'Kate Gordon' <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Michael,

Our Town Commissioners have decided to not hold their meeting tonight. On the agenda was a discussion of creating a forest bank. This item will be postponed to our next scheduled meeting on April 6<sup>th</sup>. As you can understand, we will have to evaluate if we will met in April as the time gets closer.

Thank you,  
Seth



**Seth A. Rivard, MPA**

Town Manager  
19721 Beall Street  
Poolesville, MD 20837  
301-428-8927

***Small Town Character, Down-Home Charm***

**From:** Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>

**Sent:** Friday, March 13, 2020 10:03 AM

**To:** [srivard@poolesvillemd.gov](mailto:srivard@poolesvillemd.gov)

**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; [gohare@rkk.com](mailto:gohare@rkk.com); Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>



**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Good morning Seth,


Thank you for following up. The State is specifically looking for sites to plant that are 5 acres or larger. Feel free to let me know if you have any questions or need additional info. Looking forward to hearing back from you next week.

Thanks,  
Mike

---




**Michael Marra**  
**Environmental Scientist**  
 Resource Assessment & Permitting  
[mmarra@cemsience.com](mailto:mmarra@cemsience.com)  
 cell: (302) 290-9245



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**From:** [srivard@poolesvillemd.gov](mailto:srivard@poolesvillemd.gov) [<mailto:srivard@poolesvillemd.gov>]

**Sent:** Monday, March 09, 2020 2:18 PM

**To:** Marra, Michael <[mmarra@cemsience.com](mailto:mmarra@cemsience.com)>

**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Michael,

I am proposing to establish a forest bank on properties owned by Poolesville for various projects, this could be one of them. I will get some feedback next Monday on this proposal from the Town Commission. There may be a few areas that are greater than 5 acres. This may not help you in your research, since you may be looking for already established forest banks, but I wanted to let you know that this is a possibility.

Thank you,  
Seth

**Seth A. Rivard, MPA**  
 Town Manager  
 19721 Beall Street  
 Poolesville, MD 20837





301-428-8927

***Small Town Character, Down-Home Charm***

---

**From:** [srivard@poolesvillemd.gov](mailto:srivard@poolesvillemd.gov) <[srivard@poolesvillemd.gov](mailto:srivard@poolesvillemd.gov)>

**Sent:** Monday, March 2, 2020 4:05 PM

**To:** 'Marra, Michael' <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>

**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Mike,

I apologize for the delay. I will respond tomorrow.

Thank you,  
Seth



**Seth A. Rivard, MPA**

Town Manager

19721 Beall Street

Poolesville, MD 20837

301-428-8927

***Small Town Character, Down-Home Charm***

---

**From:** Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>

**Sent:** Friday, February 28, 2020 9:17 AM

**To:** [srivard@poolesvillemd.gov](mailto:srivard@poolesvillemd.gov)

**Subject:** FW: I -495/I-270 MLS Reforestation Mitigation

Good morning Mr. Rivard,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in Poolesville. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).





**Michael Marra**  
**Environmental Scientist**  
Resource Assessment & Permitting  
[mmarra@cemsience.com](mailto:mmarra@cemsience.com)  
cell: (302) 290-9245



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**From:** Marra, Michael

**Sent:** Wednesday, February 05, 2020 3:26 PM

**To:** 'srivard@poolesvillemd.gov' <[srivard@poolesvillemd.gov](mailto:srivard@poolesvillemd.gov)>

**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>;  
[gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Subject:** I -495/I-270 MLS Reforestation Mitigation

Dear Mr. Rivard,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the Town of Poolesville. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites. For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website



at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

---



**Michael Marra**  
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**From:** [Kate Gordon](#)  
**To:** ["barry.stanton@pgcps.org"](mailto:barry.stanton@pgcps.org)  
**Cc:** ["Christina Brandt"](#); [Greg OHare](#); [Anita Alexander](#); ["Bob Maimone"](#)  
**Subject:** RE: Reforestation Opportunities on PGCPs Property for I-495/I-270 MLS Mitigation  
**Date:** Friday, September 11, 2020 3:22:18 PM  
**Attachments:** [image001.png](#)  
[image005.png](#)

---

Good afternoon,

I am following up on this inquiry about potential reforestation opportunities on PGCPs property. Since we have not received a response, we are assuming there are no viable opportunities. Please let me know if that is not the case.

Thank you!

- Kate

---

**From:** Kate Gordon  
**Sent:** Tuesday, July 21, 2020 12:11 PM  
**To:** 'barry.stanton@pgcps.org' <barry.stanton@pgcps.org>  
**Cc:** 'Christina Brandt' <CBrandt@mdot.maryland.gov>; Greg OHare <gohare@rkk.com>; Anita Alexander <aalexander@rkk.com>  
**Subject:** Reforestation Opportunities on PGCPs Property for I-495/I-270 MLS Mitigation

Dear Mr. Stanton,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Prince George's County Public Schools. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.



For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,  
Kate Gordon  
Consultant for Maryland Department of Transportation, State Highway Administration

---

**KATE GORDON, PWS, CA, LTE**  
Project Manager



700 East Pratt Street, Suite 500  
Baltimore, MD 21202

410.728.2900 P | 410.462.9131 D | 301.448.8903 C  
[www.rkk.com](http://www.rkk.com)

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**From:** [Kate Gordon](#)  
**To:** [Marra, Michael](#); [Connelly, Laura](#)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](#); [Greg OHare](#); [Anita Alexander](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Tuesday, March 17, 2020 9:45:31 AM  
**Attachments:** [image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image009.png](#)

---

Mike, We have already been in touch with Laura about potential planting opportunities on MNCPPC property.

Laura, please disregard. Sorry for any confusion.

---

**From:** Marra, Michael <mmarra@cemscience.com>  
**Sent:** Tuesday, March 17, 2020 9:39 AM  
**To:** Connelly, Laura <Laura.Connelly@pgparks.com>  
**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>; Greg OHare <gohare@rkk.com>; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Hi Laura,  
Just wanted to follow-up on Ryan's email from Friday.

I was working with Ryan to located potential reforestation planting opportunities on properties owned by Riversdale Park. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites. For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra  
 Consultant for Maryland Department of Transportation, State Highway Administration  
 email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
 cell: (302) 290-9245

---

**Michael Marra**  
**Environmental Scientist**  
 Resource Assessment & Permitting  
[mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
 cell: (302) 290-9245





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**From:** Ryan Chelton [<mailto:rchelton@riverdaleparkmd.gov>]

**Sent:** Friday, March 13, 2020 3:37 PM

**To:** Connelly, Laura <[Laura.Connelly@pgparks.com](mailto:Laura.Connelly@pgparks.com)>

**Cc:** Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>

**Subject:** FW: I -495/I-270 MLS Reforestation Mitigation

Good afternoon Laura,

Thank you again for meeting me earlier this week. I'd like to introduce you via email to Michael Marra. Michael is the gentleman I spoke about in our meeting who is searching for space for reforestation. I spoke with Michael earlier today and mentioned that Park and Planning may have some land that fits his criteria.

Best regards,

**Ryan Chelton**, Director of Development Services  
Town of Riverdale Park, Maryland  
5008 Queensbury Road  
Riverdale Park, Maryland 20737

[www.RiverdaleParkMD.gov](http://www.RiverdaleParkMD.gov)

O – 301.927.6381

C – 240.825.5333

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**From:** Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>



**Sent:** Friday, March 13, 2020 2:25 PM

**To:** Ryan Chelton <[rchelton@riverdaleparkmd.gov](mailto:rchelton@riverdaleparkmd.gov)>

**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Hi Ryan,

Thanks again for taking the time to chat with me. As you mentioned, unfortunately we cannot utilize the MNCPPC property due to it's association with flood prevention and the levee. Please feel free to pass along my information to your Parks and Planning Department for other forest mitigation opportunities in your area.

Take care,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

---



**Michael Marra**  
**Environmental Scientist**  
 Resource Assessment & Permitting  
[mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
 cell: (302) 290-9245



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**From:** Ryan Chelton [<mailto:rchelton@riverdaleparkmd.gov>]

**Sent:** Monday, March 02, 2020 8:54 PM

**To:** Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>

**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation

Good evening Mike,

There is an area that I think would be perfect for this, but the area is owned by MNCPPC. The area has been altered previously in an effort to manage stormwater and flooding, but there are no trees there now. I've been told that trees would negatively impact the stormwater management by MNCPPC. I'm attempting to verify this now. Do you happen to know what the effect of reforestation



would have on an area like this?

Our Mayor is very interested in placing trees here (from an aesthetic perspective), so I'd like to make sure that I am completely sure before telling him that it can't be done.

Thank you,

**Ryan Chelton**, Director of Development Services  
Town of Riverdale Park, Maryland  
5008 Queensbury Road  
Riverdale Park, Maryland 20737

[www.RiverdaleParkMD.gov](http://www.RiverdaleParkMD.gov)

O – 301.927.6381

C – 240.825.5333

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**From:** Marra, Michael <[mmarra@cemscience.com](mailto:mmarra@cemscience.com)>  
**Sent:** Friday, February 28, 2020 9:03 AM  
**To:** Ryan Chelton <[rchelton@riverdaleparkmd.gov](mailto:rchelton@riverdaleparkmd.gov)>  
**Subject:** FW: I -495/I-270 MLS Reforestation Mitigation

Good morning Mr. Chelton,  
I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in Riverdale Park. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra  
Consultant for Maryland Department of Transportation, State Highway Administration  
email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

---

**Michael Marra**  
**Environmental Scientist**





Resource Assessment & Permitting  
[mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
 cell: (302) 290-9245



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**From:** Marra, Michael

**Sent:** Wednesday, February 05, 2020 3:46 PM

**To:** 'rchelton@riverdaleparkmd.gov' <[rchelton@riverdaleparkmd.gov](mailto:rchelton@riverdaleparkmd.gov)>

**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>;  
[gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>

**Subject:** I-495/I-270 MLS Reforestation Mitigation

Dear Mr. Chelton,

Thank you for taking time to speak with me. Per our conversation, below is some additional information:

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Riversdale Park. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites. For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.



Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

---



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**Michael Marra**  
**Environmental Scientist**  
 Resource Assessment & Permitting  
[mmarra@cemsience.com](mailto:mmarra@cemsience.com)  
 cell: (302) 290-9245



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**From:** [David Guyther](#)  
**To:** [Marra, Michael](#)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](#); [gohare@rkk.com](#); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Tuesday, February 04, 2020 12:28:44 PM  
**Attachments:** [image002.png](#)  
[image003.png](#)

---

Mike, I'll keep this in mind if anything comes up.

Thanks  
David Guyther  
Parks Manager  
St. Mary's County Recreation & Parks  
301-475-4200 ext. 73571

---

**From:** Marra, Michael <mmarra@cemscience.com>  
**Sent:** Monday, February 3, 2020 3:46 PM  
**To:** David Guyther <David.Guyther@stmarysmd.com>  
**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>;  
gohare@rkk.com; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>  
**Subject:** I -495/I-270 MLS Reforestation Mitigation

Hello Mr. Guyther,

Thanks again for speaking to me this afternoon. In our conversation, you mentioned that there are currently no potential reforestation planting opportunities on properties owned by St. Mary's Department of Recreation & Parks. If anything changes in the future or new opportunities arise, please feel free to use the contact information listed below to reach me. Again, we are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

Thanks again for your time and consideration,  
Mike Marra  
Consultant for Maryland Department of Transportation, State Highway Administration  
email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)  
cell: (302) 290-9245

---

***Michael Marra***





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cell: (302) 290-9245



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**From:** [Marra, Michael](#)  
**To:** ["Anthony.Coleman@seatpleasantmd.gov"](mailto:Anthony.Coleman@seatpleasantmd.gov)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](mailto:Christina.Brandt@mdot.maryland.gov); [gohare@rkk.com](mailto:gohare@rkk.com); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Wednesday, April 08, 2020 3:46:00 PM  
**Attachments:** [image011.png](#)  
[image012.png](#)  
[image002.png](#)  
[image003.png](#)

Good afternoon Mr. Coleman,  
 I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in Seat Pleasant. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).



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**Michael Marra**  
**Environmental Scientist**  
 Resource Assessment & Permitting  
[mmarra@cemsience.com](mailto:mmarra@cemsience.com)  
 cell: (302) 290-9245



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**From:** Marra, Michael  
**Sent:** Wednesday, February 12, 2020 11:14 AM  
**To:** 'Anthony.Coleman@seatpleasantmd.gov' <Anthony.Coleman@seatpleasantmd.gov>  
**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>;  
 gohare@rkk.com; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>  
**Subject:** I -495/I-270 MLS Reforestation Mitigation



Dear Mr. Coleman,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by Seat Pleasant. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
cell (302) 290 9245

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**From:** [Marra, Michael](#)  
**To:** ["town@townofsomerset.com"](mailto:town@townofsomerset.com)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](mailto:cbrandt@mdot.maryland.gov); ["gregory\\_connor@hcpss.org"](mailto:gregory_connor@hcpss.org); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Monday, April 13, 2020 11:10:00 AM  
**Attachments:** [image005.png](#)  
[image006.png](#)  
[image008.png](#)  
[image009.png](#)

Good morning Mr. Feather,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in the Town of Somerset. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemscience.com](mailto:mmarra@cemscience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

 Applying Practical Science to Improve Communities	<p><b>Michael Marra</b>  <b>Environmental Scientist</b>          Resource Assessment &amp; Permitting  <a href="mailto:mmarra@cemscience.com">mmarra@cemscience.com</a>          cell: (302) 290-9245</p>	 est. 1993
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**From:** Marra, Michael

**Sent:** Wednesday, February 12, 2020 1:40 PM

**To:** 'town@townofsomerset.com' <town@townofsomerset.com>

**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>; 'gregory\_connor@hcpss.org' <gregory\_connor@hcpss.org>; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>



**Subject:** I -495/I-270 MLS Reforestation Mitigation

Dear Mr. Feather,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the town of Somerset. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
cell (302) 290 9245

---



**CEM**

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**Michael Marra**  
**Environmental Scientist**  
 Resource Assessment & Permitting  
[mmarra@cemsience.com](mailto:mmarra@cemsience.com)  
 cell: (302) 290-9245



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**From:** [Marra, Michael](#)  
**To:** [jlschauerlong@smcps.org](mailto:jlschauerlong@smcps.org)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](mailto:cbrandt@mdot.maryland.gov); [gohare@rkk.com](mailto:gohare@rkk.com); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Tuesday, March 31, 2020 10:52:00 AM  
**Attachments:** [image002.png](#)  
[image003.png](#)  
[image005.png](#)  
[image006.png](#)  
[image008.png](#)  
[image009.png](#)

Good morning Ms. Schauer-Long,

I am following up once again regarding potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by St. Mary's County Public Schools. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

 Applying Practical Science to Improve Communities	<b>Michael Marra</b> <b>Environmental Scientist</b> Resource Assessment & Permitting <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a> cell: (302) 290-9245	 est. 1993
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**From:** Marra, Michael



**Sent:** Friday, February 28, 2020 1:42 PM  
**To:** 'jlschauerlong@smcps.org' <jlschauerlong@smcps.org>  
**Subject:** FW: I -495/I-270 MLS Reforestation Mitigation

Good afternoon Ms. Schauer-Long,  
 I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities on properties owned St. Mary's County Public Schools. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra  
 Consultant for Maryland Department of Transportation, State Highway Administration  
 email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)  
 cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

 <p>Applying Practical Science to Improve Communities</p>	<p><b>Michael Marra</b>  <b>Environmental Scientist</b>          Resource Assessment &amp; Permitting  <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a>          cell: (302) 290-9245</p>	
<p>42 N. Main Street   Bel Air, MD 21014          phone: 410.893.9016   Visit us at <a href="http://www.cemsience.com">www.cemsience.com</a></p> <p><i>This email may contain confidential information intended for the sole use of the recipient. Unauthorized use of this information is prohibited. If you received this email in error please notify sender. Thank you!</i></p> <div style="text-align: right;">    </div>		

**From:** Marra, Michael  
**Sent:** Wednesday, February 05, 2020 1:11 PM  
**To:** 'jlschauerlong@smcps.org' <jlschauerlong@smcps.org>  
**Cc:** Christina Brandt ([cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)) <[cbrandt@mdot.maryland.gov](mailto:cbrandt@mdot.maryland.gov)>; [gohare@rkk.com](mailto:gohare@rkk.com); Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>  
**Subject:** I -495/I-270 MLS Reforestation Mitigation

Dear Ms. Schauer-Long,  
 Thank you for taking time to speak with me. Per our conversation, below is some additional information:



On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by St. Mary's County Public Schools. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

---



**CEM**

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**Environmental Scientist**  
 Resource Assessment & Permitting  
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 cell: (302) 290-9245



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**Anita Alexander**

---

**Subject:** RE: I-495 & I-270 MLS Reforestation Mitigation

---

**From:** Greg OHare  
**Sent:** Wednesday, May 27, 2020 2:39 PM  
**To:** Daryl Braithwaite <[darylb@takomaparkmd.gov](mailto:darylb@takomaparkmd.gov)>  
**Subject:** RE: I-495 & I-270 MLS Reforestation Mitigation

Thanks Daryl. We will note in our records that the City of Takoma Park does not have planting area available.

Greg

---

**GREG O'HARE, LPF, PWS, CA**  
Manager, Natural Resources



700 East Pratt Street, Suite 500  
Baltimore, MD 21202

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**From:** Daryl Braithwaite <[darylb@takomaparkmd.gov](mailto:darylb@takomaparkmd.gov)>  
**Sent:** Wednesday, May 27, 2020 1:58 PM  
**To:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>  
**Subject:** Re: I-495 & I-270 MLS Reforestation Mitigation

The City does not have that type of undeveloped land under our ownership within the city boundaries.

On Wed, May 27, 2020 at 1:50 PM Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)> wrote:

Hi Daryl - Yes...we're looking for contiguous areas at least 5 acres in size or a cluster of smaller sites that are immediately adjacent to one another that total at least 5 acres.

Thanks,

Greg



---

**GREG O'HARE, LPF, PWS, CA**

Manager, Natural Resources



700 East Pratt Street, Suite 500

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**From:** Daryl Braithwaite <[darylb@takomaparkmd.gov](mailto:darylb@takomaparkmd.gov)>

**Sent:** Wednesday, May 27, 2020 1:19 PM

**To:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>

**Subject:** Re: I-495 & I-270 MLS Reforestation Mitigation

Hi Greg,

Based on my earlier understanding of the space you were looking for, the City does not have any large areas under our control.

MNCPPC owns much of the open space and forested areas through Takoma Park.

On Wed, May 27, 2020 at 12:49 PM Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)> wrote:



Hi Daryl – I'm following up on my e-mail below from earlier this month regarding potential I-495/I-270 MLS reforestation mitigation planting sites in Takoma Park. Please let me know if you have availability this week to discuss over the phone or if I should check with someone else at the City regarding this matter.

Thank you,

Greg

Consultant for Maryland Department of Transportation, State Highway Administration

C: 410.245.9015

---

**GREG O'HARE, LPF, PWS, CA**

Manager, Natural Resources



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---

**From:** Greg OHare

**Sent:** Monday, May 11, 2020 1:23 PM

**To:** Daryl Braithwaite <[daryl@takomaparkmd.gov](mailto:daryl@takomaparkmd.gov)>

**Cc:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Chrissy Brandt



<[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Hamilton, Bill <[bill.hamilton@montgomeryparks.org](mailto:bill.hamilton@montgomeryparks.org)>;  
[Colter.Burkes@montgomeryparks.org](mailto:Colter.Burkes@montgomeryparks.org); [Douglas.Stephens@montgomeryparks.org](mailto:Douglas.Stephens@montgomeryparks.org)

**Subject:** RE: I-495 & I-270 MLS Reforestation Mitigation

Hi Daryl – I’m following up with you regarding potential I-495/I-270 MLS reforestation mitigation planting sites in Takoma Park, since Jan is no longer with the City and his last e-mail below indicated that we should contact you. Please let me know if you have availability this week to discuss over the phone.

Thank you,

Greg

Consultant for Maryland Department of Transportation, State Highway Administration

C: 410.245.9015

---

**GREG O’HARE, LPF, PWS, CA**

Manager, Natural Resources



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From: Jan Van Zutphen <[janvz@takomaparkmd.gov](mailto:janvz@takomaparkmd.gov)>

Sent: Tuesday, April 28, 2020 11:22 AM

To: Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>

Subject: Job Change RE: I-495 & I-270 MLS Reforestation Mitigation

As of 04/15/20 I will no longer be the City's Urban Forest Manager.

Please contact Daryl Braithwaite at 301-891-7615 or [daryl@takomaparkmd.gov](mailto:daryl@takomaparkmd.gov) for questions or follow up related to any Urban Forestry related issues.

Jan van Zutphen

City of Takoma Park Department of Public Works

31 Oswego Avenue

Silver Spring, MD 20910

[www.takomaparkmd.gov](http://www.takomaparkmd.gov)

---

**From:** Anita Alexander

**Sent:** Tuesday, April 28, 2020 11:22 AM

**To:** Jan Van Zutphen <[janvz@takomaparkmd.gov](mailto:janvz@takomaparkmd.gov)>

**Subject:** RE: I-495 & I-270 MLS Reforestation Mitigation

Hi Jan,

I just wanted to follow up and see if you have identified any potential planting sites in Takoma Park for I-495/I-270 Reforestation Mitigation. Once you identify potential sites, is it possible for us to coordinate/collaborate via email to determine potential planting areas and access routes? Perhaps we could do a virtual meeting to review the sites in Google Earth and discuss planting opportunities.



We would like to compile a list of all potential planting opportunities by the end of May. Please let me know if that is at all feasible.

Thanks!

Anita Alexander

Consultant for Maryland Department of Transportation, State Highway Administration

C: 609-273-7735

---

## ANITA G. ALEXANDER

Associate Environmental Scientist



700 East Pratt Street, Suite 500

Baltimore, MD 21202

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---

**From:** Anita Alexander

**Sent:** Tuesday, April 7, 2020 2:09 PM

**To:** Jan Van Zutphen <[janvz@takomaparkmd.gov](mailto:janvz@takomaparkmd.gov)>

**Cc:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Hamilton, Bill <[bill.hamilton@montgomeryparks.org](mailto:bill.hamilton@montgomeryparks.org)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Daryl Braithwaite <[daryl@takomaparkmd.gov](mailto:daryl@takomaparkmd.gov)>; Burkes, Colter <[colter.burkes@montgomeryparks.org](mailto:colter.burkes@montgomeryparks.org)>; Stephens, Douglas <[Douglas.Stephens@montgomeryparks.org](mailto:Douglas.Stephens@montgomeryparks.org)>

**Subject:** RE: I-495 & I-270 MLS Reforestation Mitigation



Great, thanks so much!

Anita Alexander

Consultant for Maryland Department of Transportation, State Highway Administration

C: 609-273-7735

---

## ANITA G. ALEXANDER

Associate Environmental Scientist



700 East Pratt Street, Suite 500

Baltimore, MD 21202

410.728.2900 P | 410.462.9358 D |  
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**From:** Jan Van Zutphen <[janvz@takomaparkmd.gov](mailto:janvz@takomaparkmd.gov)>

**Sent:** Tuesday, April 7, 2020 1:03 PM

**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>

**Cc:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Hamilton, Bill  
 <[bill.hamilton@montgomeryparks.org](mailto:bill.hamilton@montgomeryparks.org)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Daryl Braithwaite  
 <[daryl@takomaparkmd.gov](mailto:daryl@takomaparkmd.gov)>; Burkes, Colter <[colter.burkes@montgomeryparks.org](mailto:colter.burkes@montgomeryparks.org)>; Stephens, Douglas  
 <[Douglas.Stephens@montgomeryparks.org](mailto:Douglas.Stephens@montgomeryparks.org)>

**Subject:** Re: I-495 & I-270 MLS Reforestation Mitigation



GA Anita,

Thank you for your reply.

I will look further into potential tree planting sites and follow up with you.

Best Regards,

On Mon, Apr 6, 2020 at 3:13 PM Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)> wrote:

Hi Jan,

Thank you for the quick response! We are required to plant on public lands for Maryland DNR reforestation law compliance. For the MLS mitigation effort, we are looking for sites with at least 5 acres of planting opportunities. Could you provide us with a sketch of the planting opportunities on City of Takoma Park properties you feel are suitable for this effort?

Thank you for also considering M-NCPPC park land opportunities within the City. We have been coordinating with Bill Hamilton for planting opportunities on M-NCPPC owned properties in Montgomery County. He sent us a GIS shapefile of potential planting areas about a month ago and we are currently evaluating those opportunities.

Please let us know if you have any questions.

Thanks,

Anita Alexander

Consultant for Maryland Department of Transportation, State Highway Administration

C: 609-273-7735



**ANITA G. ALEXANDER**

Associate Environmental Scientist



700 East Pratt Street, Suite 500

Baltimore, MD 21202

410.728.2900 P | 410.462.9358 D |  
[www.rkk.com](http://www.rkk.com)

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**From:** Jan Van Zutphen <[janvz@takomaparkmd.gov](mailto:janvz@takomaparkmd.gov)>**Sent:** Friday, April 3, 2020 8:35 AM**To:** Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)>**Cc:** Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Christina Brandt <[CBrandt@mdot.maryland.gov](mailto:CBrandt@mdot.maryland.gov)>; Daryl Braithwaite <[daryl@takomaparkmd.gov](mailto:daryl@takomaparkmd.gov)>; Burkes, Colter <[colter.burkes@montgomeryparks.org](mailto:colter.burkes@montgomeryparks.org)>**Subject:** Re: I-495 & I-270 MLS Reforestation Mitigation

GM Anita,

Thank you for your email.

There is a City site that comes to mind:

Dorothy Woods, there are quite a few trees that can be planted there.

<https://www.google.com/maps/search/dorothy+woods/@38.9732533,-77.0015055,258m/data=!3m1!1e3>

I will be looking for other sites as well.



I have copied Colter Burkes with MNCPPC on this email as well. MNCPPC owns quite a bit of park land within City boundaries. Some of those parks could use a fair number of newly planted trees.

One area is between Mississippi Ave and Parkside Rd. Many trees have been removed there recently.

<https://www.google.com/maps/@38.98832,-77.0098523,217m/data=!3m1!1e3>

May trees be planted on private property as well?

There is a large forested area on private property where many trees have been dying as well and quite a few trees could be planted.

The area is between Ethan Allen Ave. and Woodland Ave.:

<https://www.google.com/maps/@38.9765024,-77.0011989,365m/data=!3m1!1e3>

Best regards,

On Thu, Apr 2, 2020 at 8:57 AM Anita Alexander <[aalexander@rkk.com](mailto:aalexander@rkk.com)> wrote:

Hi Jan,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than



or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the City of Takoma Park Department of Public Works. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Anita Alexander

Consultant for Maryland Department of Transportation, State Highway Administration

C: 609-273-7735

---

## **ANITA G. ALEXANDER**

**Associate Environmental Scientist**



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--

Jan van Zutphen

Urban Forest Manager

City of Takoma Park Department of Public Works

31 Oswego Avenue

Silver Spring, MD 20910

Ph: 301-891-7612

Fax: 301-585-2405

[www.takomaparkmd.gov](http://www.takomaparkmd.gov)

--

Jan van Zutphen

Urban Forest Manager

City of Takoma Park Department of Public Works

31 Oswego Avenue



Silver Spring, MD 20910

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--

Daryl Braithwaite

Public Works Director

(301) 891-7615

(She, Her, Hers)

--

Daryl Braithwaite

Public Works Director

(301) 891-7615

(She, Her, Hers)



**From:** [Kris Phillips](#)  
**To:** [Seth Hinder](#)  
**Subject:** Re: Follow Up: I-495/I-270 Managed Lane Study: Forest Mitigation Opportunities  
**Date:** Monday, April 13, 2020 10:16:24 AM  
**Attachments:** [image008.png](#)  
[image009.png](#)

---

Hi Seth,

Unfortunately our forest bank resources are planned to meet current and future university development needs. Thanks.



Kris Phillips  
Director  
University of Maryland  
Facilities Planning I Department of Planning & Construction  
2310 Service Building  
7757 Baltimore Avenue  
College Park, MD 20742  
(301) 405-8658

On Mon, Apr 13, 2020 at 9:23 AM Hinder, Seth <[SHinder@cemscience.com](mailto:SHinder@cemscience.com)> wrote:

Good morning Mr. Phillips,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in the University of Maryland. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Seth Hinder

Consultant for Maryland Department of Transportation, State Highway Administration

email: [shinder@cemscience.com](mailto:shinder@cemscience.com)

cell: (410) 983-1239

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

 <small>Applying Practical Science to Improve Communities</small>	<b>Seth Hinder</b> <b>Environmental Scientist</b> Resource Assessment & Permitting <a href="mailto:shinder@cemscience.com">shinder@cemscience.com</a> cell: (410) 983-1239 42 N. Main Street   Bel Air, MD 21014	 <small>CEM 25th 1993</small>
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phone: 410.883.9018 | Visit us at [www.cemscience.com](http://www.cemscience.com)  
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**From:** [Marra, Michael](#)  
**To:** ["washgrove@comcast.net"](mailto:washgrove@comcast.net)  
**Cc:** [Christina Brandt \(cbrandt@mdot.maryland.gov\)](mailto:cbrandt@mdot.maryland.gov); [gohare@rkk.com](mailto:gohare@rkk.com); [Anita Alexander](#); [Kate Gordon](#)  
**Subject:** RE: I -495/I-270 MLS Reforestation Mitigation  
**Date:** Thursday, April 02, 2020 3:34:00 PM  
**Attachments:** [image002.png](#)  
[image003.png](#)  
[image005.png](#)  
[image006.png](#)

Good afternoon,

I just wanted to send a quick follow-up email to see if you have had a chance to look into potential forest mitigation opportunities in town of Washington Grove. Please feel free to contact me with any questions.

Thank you again for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration

email: [mmarra@cemsience.com](mailto:mmarra@cemsience.com)

cell: (302) 290-9245

For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com).

 Applying Practical Science to Improve Communities	<p><b>Michael Marra</b>  <b>Environmental Scientist</b>          Resource Assessment &amp; Permitting  <a href="mailto:mmarra@cemsience.com">mmarra@cemsience.com</a>          cell: (302) 290-9245</p>	
<p>42 N. Main Street   Bel Air, MD 21014          phone: 410.893.9016   Visit us at <a href="http://www.cemsience.com">www.cemsience.com</a></p> <p><i>This email may contain confidential information intended for the sole use of the recipient. Unauthorized use of this information is prohibited. If you received this email in error please notify sender. Thank you!</i></p> <div style="text-align: right;">    </div>		

**From:** Marra, Michael

**Sent:** Wednesday, February 12, 2020 11:23 AM

**To:** 'washgrove@comcast.net' <washgrove@comcast.net>

**Cc:** Christina Brandt (cbrandt@mdot.maryland.gov) <cbrandt@mdot.maryland.gov>; gohare@rkk.com; Anita Alexander <aalexander@rkk.com>; Kate Gordon <kgordon@rkk.com>

**Subject:** I -495/I-270 MLS Reforestation Mitigation



To whom it may concern,

On behalf of the Maryland Department of Transportation State Highway Administration (MDOT SHA), I am reaching out to your agency to identify potential forest mitigation opportunities for the I-495 & I-270 Managed Lane Study. The I-495 & I-270 Managed Lanes Study is an ongoing environmental study that is seeking solutions to improve existing and long-term traffic growth, enhance trip reliability and improve the movement of goods and services along the I-495 and I-270 corridors. The study covers I-495 from south of the George Washington Memorial Parkway in Virginia, including the American Legion Bridge, to west of MD 5 in Prince George's County and along I-270 from I-495 to I-370 in Montgomery County. While the study of environmental impacts associated with the alternatives is ongoing, MDOT SHA is considering the need for environmental mitigation. Under the Reforestation Law, the Maryland Department of Natural Resources requires state funded highway projects that clear greater than or equal to one acre of forest to provide 1:1 forest mitigation on public lands within the counties and/or watersheds that are affected by the project.

We are reaching out to your agency to discuss potential reforestation planting opportunities on properties owned by the town of Washington Grove. We are looking for tree planting sites that are 5 acres or larger but would consider smaller sites if they are in close proximity to one another and add up to 5 acres. Please let us know if you are aware of any sites that meet this criterion and are available for reforestation planting. We can schedule a field meeting to evaluate any potentially acceptable sites.


For more information about the I-495 & I-270 Managed Lanes Study, please visit the project website at [www.495-270-P3.com](http://www.495-270-P3.com). Feel free to reach out with any questions.

Thank you for your time and consideration,

Mike Marra

Consultant for Maryland Department of Transportation, State Highway Administration  
cell (302) 290 9245

---

 <p><b>CEM</b> Applying Practical Science to Improve Communities</p>	<p><b>Michael Marra</b> <b>Environmental Scientist</b> Resource Assessment &amp; Permitting <a href="mailto:mmarra@cemscience.com">mmarra@cemscience.com</a> cell: (302) 290-9245</p>	 <p><b>25</b> CEM est. 1993</p>
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phone: 410.893.9016 | Visit us at [www.cemscience.com](http://www.cemscience.com)

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**Anita Alexander**

---

**From:** Greg OHare  
**Sent:** Friday, December 6, 2019 10:00 AM  
**To:** Wright, Karen  
**Cc:** Kate Gordon; Anita Alexander; Caryn Brookman; Chrissy Brandt  
**Subject:** I-495/270 Reforestation Opportunities

Hi Karen – Thank you for your time on the phone this morning discussing potential I-495/270 MLS reforestation opportunities on WSSC property. As we discussed, WSSC does not have any land available to plant due to internal WSSC planting commitments. Please confirm in a follow-up e-mail, as we discussed.

Thank you,

Greg

---

**GREG O'HARE, LPF, PWS, CA**  
Manager, Natural Resources



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# **MARYLAND REFORESTATION LAW MITIGATION SITE SEARCH REPORT**

**Addendum #1**

**August 20, 2021**



U.S. Department of Transportation  
**Federal Highway Administration**

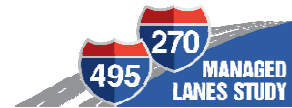
and



**MARYLAND DEPARTMENT OF TRANSPORTATION**

**STATE HIGHWAY ADMINISTRATION**





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## LIST OF ATTACHMENTS

- Attachment 1: Preferred Alternative Fact Sheet
- Attachment 2A: MDNR Correspondence – January 2021
- Attachment 2B: MDNR Correspondence – May 2021
- Attachment 3: House Bill 991
- Attachment 4: Additional Planting Site Maps





## 1 Introduction

This addendum to the I-495 & I-270 Managed Lanes Study (MLS) Maryland Reforestation Law Mitigation Site Search Report documents changes to the project scope and proposed mitigation since the report was submitted to Maryland Department of Natural Resources (MDNR) on December 15, 2020. The Maryland Department of Transportation State Highway Administration (MDOT SHA) recently selected the Preferred Alternative, Alternative 9 – Phase 1 South (Preferred Alternative) for the MLS, resulting in changes to the project area, anticipated forest impacts, and mitigation requirements. Additionally, the proposed forest retention bank sites previously proposed for MLS mitigation are no longer viable due to updates to the Forest Conservation Act detailed in Maryland State Legislature House Bill (HB 991) that was enacted June 1, 2021, which changed the definition of forest mitigation banking to only allow qualified conservation banks approved on or before December 31, 2020, to be used for project mitigation. Additional planting opportunities identified since the Site Search Report submittal are also included in this addendum.

## 2 Project Scope Updates

On May 12, 2021, MDOT SHA announced Alternative 9 – Phase 1 South as the Preferred Alternative for the MLS. The Study limits remain unchanged from the Draft Environmental Impact Statement (DEIS): I-495 from south of the George Washington Memorial Parkway in Fairfax County, Virginia, including replacement of the American Legion Bridge over the Potomac River, to west of MD 5 and along I-270 from I-495 to north of I-370, including the east and west I-270 spurs in Montgomery and Prince George’s Counties, Maryland. The Preferred Alternative, Alternative 9 - Phase 1 South (shown in **dark blue** in **Figure 1**), includes build improvements within the limits of Phase 1 South only. There is no action or no improvements included at this time on I-495 east of the I-270 east spur to MD 5 (shown in **light blue** in **Figure 1**). While the Preferred Alternative does not include improvements to the remaining parts of I-495 within the scope of the Study, future improvements on the remainder of the system may still be needed in the future.

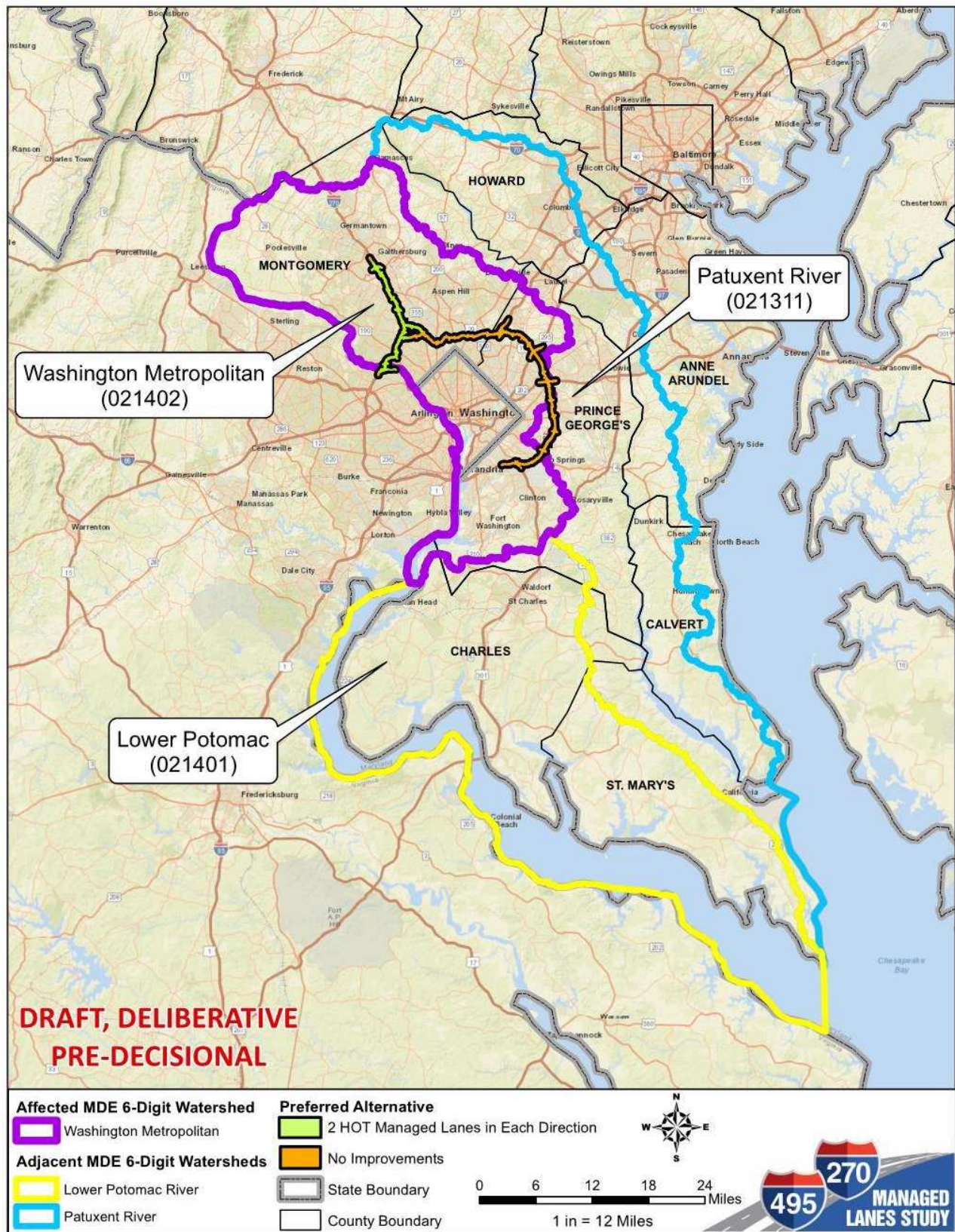


The map illustrates the proposed HOT managed lanes project in the Washington, D.C. area. The project area is highlighted in blue, showing the conversion of existing lanes into two HOT lanes in each direction on I-495 and I-270. The 'NO IMPROVEMENTS' section is shown in light blue, indicating areas where no changes are planned. Key locations and highways are labeled, including Frederick, Gaithersburg, Rockville, Silver Spring, Greenbelt, Upper Marlboro, Arlington, and Washington. Major highways like I-70, I-495, I-270, I-95, and I-66 are shown. A north arrow is located in the top right corner.

AUGUST 2021



Figure 2: Affected MLS County and MDE 6-Digit Watershed





### 3 Maryland Forest Conservation Act Updates & Implications for Maryland Reforestation Law

On January 6, 2021, the MDNR Forest Service provided comments to MDOT SHA for the Maryland Reforestation Mitigation Site Search Report. The first comment regarding the use of existing forest for forest mitigation banking reads:

“The Recommended Retention Sites: The provided information does not specifically state whether the identified properties are existing or proposed banks or if offsite retention is the method to be used. To clarify, the statute does not allow offsite retention of forest but does allow banking that is in compliance with the Forest Conservation Act’s mitigation banking requirements. [MDNR Forest Service] will need to review each banking site to determine if the banks are in compliance with the recently released Opinion of the Attorney General dated October 26, 2020 [105 Opinions of the Attorney General (2020)].”

On March 23, 2021, MDOT SHA provided a point by point response to all MDNR comments and clarified that proposed forest retention sites on MDOT SHA excess lands are proposed forest retention banks, not existing banks (see *Attachment 2A: MDNR Correspondence January 2021*). MDNR responded via email on May 3, 2021, stating that “the ability to utilize retention mitigation banks for FCA (and Reforestation Law) mitigation purposes has been determined not to be in keeping with the statute” per the Office of Attorney General’s Opinion from October 2020, but also referencing that “HB 991 would enable the use of retention banking until 2023 if it is adopted” (see *Attachment 2B: MDNR Correspondence May 2021*).

The Maryland 2021 Legislative Session House Bill 991 passed on May 30, 2021 and enacted June 1, 2021 updates the Maryland Forest Conservation Act (Md. NATURAL RESOURCES Code Ann. § 5-1601 – 5-1613) to allow for “qualified conservation” as a form of “forest mitigation banking,” but defines “qualified conservation” as conservation of existing forest that “was approved on or before December 31, 2020 by the appropriate State or local forest conservation program for the purpose of establishing a forest mitigation bank” (see *Attachment 3: House Bill 991*). Approved forest mitigation banks that protect existing forest may continue to sell credits until June 30, 2024, but no new banks can be established via conservation of existing forest. Therefore, the retention sites previously proposed as MLS forest mitigation bank sites are no longer acceptable as forest mitigation for the MLS and have been removed from the proposed mitigation approach.

## 4 Updated Summary of Mitigation Approach

### 4.1 Updated Mitigation Sites

Since December 15, 2020, MDOT SHA identified three additional planting opportunities on MDOT SHA excess lands in Montgomery County (see additional planting site maps in **Attachment 4**). A summary of the revised planting acreage and credits provided by the recommended off-site mitigation opportunities in the affected county and watershed, including additional planting opportunities outside of the affected counties and watersheds is provided in **Table 4.1-1**. A variance will be needed from MDNR for any planting outside of the affected county or watershed. A summary of the recommended mitigation sites, organized



by public partner, property, and acreage of anticipated mitigation planting per site is provided in **Table 4.1-2**.

**4.1-1: Summary of Recommended Off-Site Mitigation Planting Acreage by County and Watershed**

COUNTY	WATERSHED			TOTAL
	Washington Metropolitan (Affected Watershed)	Patuxent River (Adjacent Watershed)	Lower Potomac River (Adjacent Watershed)	
	Planting Acreage	Planting Acreage	Planting Acreage	
Affected County (Montgomery)	24.44	0.00	0.00	<b>24.44</b>
Non-Affected Counties (Prince George's, Anne Arundel, Howard, and St. Mary's)	15.52	191.48	77.00	<b>284.00</b>
<b>TOTAL</b>	<b>39.96</b>	<b>191.48</b>	<b>77.00</b>	<b>308.44</b>



4.1-2: Summary of Recommended Off-Site Mitigation Sites by Public Partner &amp; Property

Public Partner	Property	Number of Selected Sites	Planting Acreage within Affected County/Watershed	Planting Acreage Outside of Affected County/Watershed
<b>Recommended Planting Sites</b>				
National Aviation and Space Administration (NASA)	Goddard Space and Flight Center <sup>1</sup>	2	3.62	0
U.S. Department of Agriculture (USDA)	Beltsville Agricultural Research Center <sup>1</sup>	3	6.10	0
	George Washington Carver Center <sup>1</sup>	8	5.80	0
U.S. Fish and Wildlife Service (USFWS)	Patuxent Research Refuge <sup>1</sup>	13	0	63.84
Maryland Department of Natural Resources (MDNR)	Patuxent River State Park <sup>1</sup>	1	0	15.56
	Seneca Creek State Park	1	5.90	0
	Rosaryville State Park <sup>1</sup>	8	0	39.71
	Wood Property <sup>1,2</sup>	8	0	64.72
	Greenwell State Park <sup>1</sup>	2	0	7.65
	Newtowne Neck State Park <sup>1</sup>	13	0	77.00
Maryland National Capital Park and Planning Commission, Montgomery County (M-NCPPC MO)	Rock Creek SVU 4 & SVU 5	2	1.39	0
	Olney Recreational Park	1	1.20	0
	Northwest Branch SVU 5	2	1.59	0
	Rock Creek SVU 2	1	1.21	0
Maryland Department of Transportation State Highway Administration (MDOT SHA)	Excess Lands*	3	13.16	0
<b>TOTAL</b>	<b>Proposed Planting Sites &amp; Acreage</b>	<b>68</b>	<b>39.96</b>	<b>268.48</b>

1 A variance is needed from MDNR to allow mitigation planting on MDNR and USFWS properties in adjacent watersheds.

2 Assuming MDNR purchases the Wood Property before the MLS project construction.

\*Proposed sites have changed since December 2020.

## 4.2 Recommended Approach for Maryland Reforestation Law Compliance

The estimated 463.02 acres of forest impact is expected to be reduced during future design stages as forest stand assessments are completed, and avoidance and minimization efforts reduce the overall



mitigation requirement. As the first step in the mitigation hierarchy, opportunities for on-site reforestation within the MLS corridor will be identified during future design stages. In addition to the off-site mitigation on public lands identified in this site search, forest impacts may be mitigated by purchasing credits from approved forest mitigation banks in the affected counties and/or watersheds. A total of 38.14 credit acres are currently available for purchase within the affected county and watershed according to an online summary of available bank credits for Montgomery County; 95.67 credit acres are currently available for purchase within the affected watershed outside of the affected county according to an online summary of available bank credits for Prince George's County, and 822.74 credit acres are available for purchase in adjacent counties and watersheds based on coordination with Department of Planning offices in Prince George's, Howard, Charles, Anne Arundel, St. Mary's, and Calvert Counties, though a variance from MDNR would be required to use mitigation bank credits outside of the affected county or watershed. Available forest mitigation credit acres are subject to change but are likely to fulfill a significant portion of the remaining mitigation need. Any remaining mitigation required may be fulfilled through payment into the Reforestation Fund, as approved by MDNR. A summary of the currently recommended Maryland Reforestation Law compliance approach for the MLS is provided in **Table 4.2-1** below.

**Table 4.2-1: Currently Recommended MLS Maryland Reforestation Law Mitigation Compliance Approach**

Credit Type	Location	Credit Totals
Avoidance and Minimization	TBD	TBD
On-site Mitigation	TBD	TBD
Off-site Mitigation	Within Affected County/Watershed	39.96
Off-site Mitigation	Outside Affected County/Watershed	268.48*
Forest Mitigation Banks within Affected County/Watershed	Montgomery County (Affected County and Watershed)	38.14 <sup>1</sup>
	Prince George's County (Affected Watershed)	95.67 <sup>2</sup>
Forest Mitigation Banks in Adjacent Counties and Watersheds	Prince George's County (Adjacent Watersheds)	748.24 <sup>2*</sup>
	Howard County	74.50 <sup>3*</sup>
	Charles County	TBD <sup>4*</sup>
	Anne Arundel County	TBD <sup>5*</sup>
	St. Mary's County	N/A <sup>6</sup>
	Calvert County	0 <sup>7</sup>
Reforestation Fund	Preferred Alternative	TBD
<b>Estimated Total Required Credits</b>	<b>Preferred Alternative</b>	<b>463.02</b>
<b>Total Identified Credits</b>	<b>Preferred Alternative</b>	<b>1,226.85</b>
<b>Estimated Credit Deficit</b>	<b>Preferred Alternative</b>	<b>0</b>

\*A variance is required from MDNR for use of these credits.

<sup>1</sup>According to "Forest Banks with Available Credits" information obtained online via M-NCPPC Montgomery County Planning Department's website in August 2021.



<sup>2</sup> According to “Off-Site Woodland Conservation Banks with Available Acreage” information obtained online via M-NCPPC Prince George’s County Planning Department’s website in August 2021.

<sup>3</sup> Information received from Howard County Department of Planning and Zoning in August 2021.

<sup>4</sup> Bank credits may be available in the Patuxent River Watershed. Follow up with Charles County Department of Planning and Growth Management is required. Information regarding available credits was not provided to the MLS team after several requests in September 2020. No updates to this request as of August 2021.

<sup>5</sup> Bank credits may be available in the Patuxent River Watershed outside of the Chesapeake Bay Critical Area (CBCA). Follow up with the Anne Arundel County Department of Planning and Zoning is required. Information regarding available credits was not provided to the MLS team after several requests in September 2020. No updates to this request as of August 2021.

<sup>6</sup> No forest mitigation banking programs exist in St. Mary’s County as of August 2021.

<sup>7</sup> There are no bank credits available in Calvert County as of August 2021.

## 5 Conclusion

MDOT SHA’s selection of a Preferred Alternative for the MLS resulted in changes to the extent of the LOD, anticipated forest impacts, and mitigation requirements presented in the I-495 & I-270 MLS Maryland Reforestation Law Mitigation Site Search Report submitted to MDNR on December 15, 2020. The Preferred Alternative is anticipated to result in approximately 463 acres of forest impact in Maryland, within Montgomery County in the Washington Metropolitan MDE 6-Digit watershed (021402). The forest impact estimate will be refined during later stages of design, when forest stand assessments are conducted and impact avoidance and minimization efforts progress. Any unavoidable impacts to forest will be mitigated according to the hierarchy outlined in the Maryland Reforestation Law within two years or three growing seasons of the completion of project construction.

Since HB 991 was passed in May 2021, sites identified for forest retention in the previous report are no longer acceptable for use as forest mitigation banks and, therefore, are no longer included in the MLS mitigation approach. Additional planting opportunities have been identified since the site search report was submitted to MDNR on December 15, 2020. Existing approved forest mitigation bank credits may fulfill a greater part of the remaining mitigation need, as a total of 38.14 acres of forest mitigation bank credits are currently available for purchase within the affected counties and watersheds and 95.67 acres of forest mitigation bank credit are currently available in the affected watersheds outside of the affected counties, though available bank credits will likely change prior to construction of the MLS improvements. Any remaining mitigation required may be addressed via available forest mitigation bank credits in adjacent counties and watersheds and/or payment into the Reforestation Fund at ten cents per square foot of forest impact (\$4,356 per acre), as approved by MDNR.

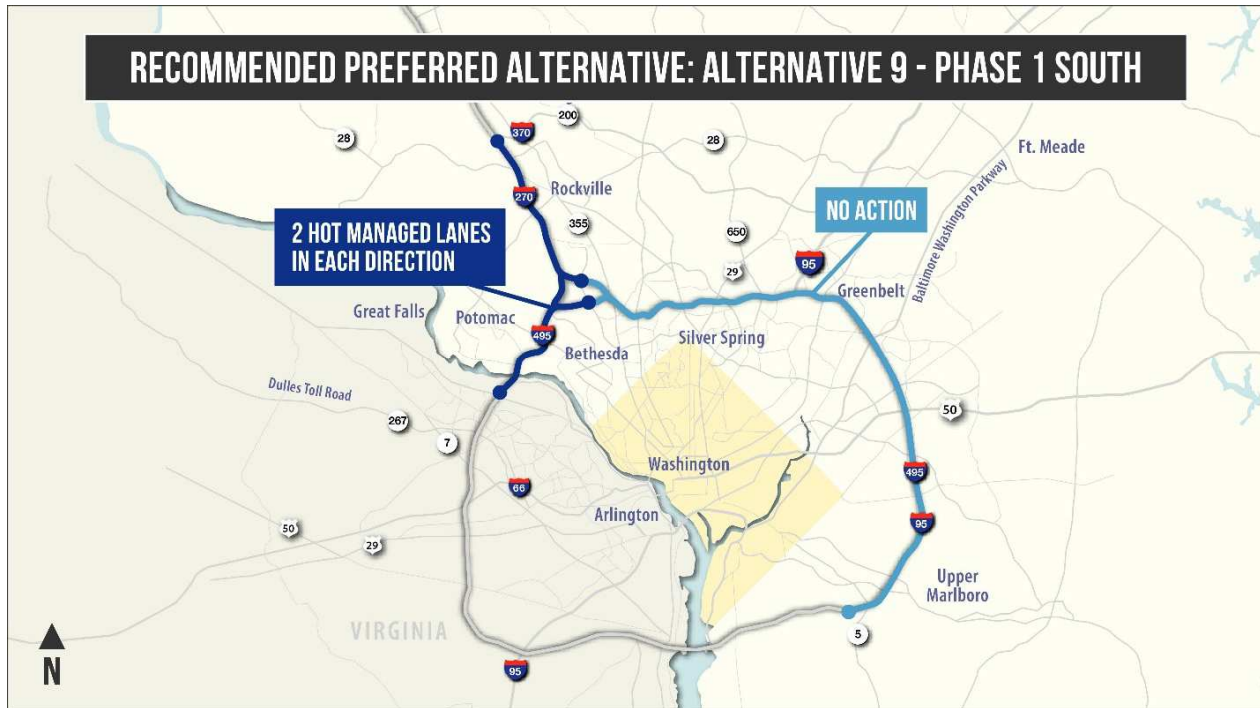


# **ATTACHMENT 1: PREFERRED ALTERNATIVE FACT SHEET**



## **Fact Sheet**

### **New Recommended Preferred Alternative to Deliver Phase 1 South: American Legion Bridge I-270 to I-370**



#### **New Recommended Preferred Alternative**

After several months of continuous collaboration and listening to agency partners, public officials and stakeholders, the Federal Highway Administration (FHWA) and the Maryland Department of Transportation State Highway Administration (MDOT SHA) have identified Alternative 9: Phase 1 South as the new Recommended Preferred Alternative (RPA) for the Managed Lanes Study (MLS). The new RPA focuses solely on building a new American Legion Bridge and delivering two high occupancy toll (HOT) managed lanes in each direction on Phase 1 South: American Legion Bridge I-270 to I-370 with no action at this time on I-495 east of the I-270 eastern spur.

In late summer 2021, FHWA and MDOT SHA will issue a Supplemental Draft Environmental Impact Statement (SDEIS) for Alternative 9: Phase 1 South for public and agency comment. Consistent with Alternative 9 in the Draft Environmental Impact Statement (DEIS) published in July 2020, the RPA, Alternative 9: Phase 1 South, proposes adding two HOT managed lanes in each direction from the George Washington Memorial Parkway in Virginia to east of MD 187 on I-495. On I-270 from I-495 to north of I-370 and on the I-270 eastern spur from east of MD 187 to I-270, the new alternative proposes adding one HOT managed lane and converting the existing high-occupancy vehicle (HOV) lane into a HOT managed lane, resulting in a network of two HOT managed lanes in each direction.

MDOT SHA and FHWA continue to consider all comments that were received as part of the DEIS and public hearings held last fall and continue to work with agencies and stakeholders to avoid and minimize impacts to the environment and the communities in the study area. The agencies will respond to substantive comments received on both the DEIS and the SDEIS in the study's combined Final Environmental Impact Statement/Record of Decision (FEIS/ROD).



### **Who can use the HOT Lanes?**

In the Alternative 9: Phase 1 South RPA, existing general-purpose travel lanes throughout the corridor will be retained and will remain free for use by all motorists. Drivers with less than three occupants in the vehicle would only pay if they choose to use the HOT lanes. HOV3+ will allow carpools, vanpools and other vehicles carrying three or more people to travel faster and more reliably in the new HOT lanes free of charge any time of day. Buses and motorcycles also will be granted free passage on the new HOT lanes free of charge, providing opportunities for a faster, more reliable trip.

### **Benefits of New RPA**

The new RPA will address existing traffic and long-term traffic growth, enhance trip reliability, provide additional travel options and improve the movement of goods and services within Phase 1 South. This new RPA will provide significant pedestrian and bicycle commitments to improve the connectivity of area sidewalks and trails, including the addition of a multi-use trail on the new American Legion Bridge across the Potomac River.

### **Future Action**

This RPA does not suggest that improvements will not be needed on the top side and east side of I-495. If the new RPA is selected at the conclusion of the MLS, consideration of improvements to remaining parts of the interstate system would advance separately, subject to additional environmental studies, analysis and collaboration with the public, stakeholders and agency partners.

Click [HERE](#) for more details about the new RPA, the MLS or predevelopment work.

# # #



**ATTACHMENT 2A:**  
**MDNR CORRESPONDENCE - JANUARY 2021**



January 6, 2021

Kate Gordon  
MDOT State Highway Administration  
1-495 & 1-270 P3 Office  
707 North Calvert St  
Mail Stop P-601  
Baltimore, MD 21202

RE: Maryland Reforestation Law Mitigation Site Search Report Dec 15, 2020

Dear Ms Gordon:

Thank you for the opportunity to review the Maryland Reforestation Law Mitigation Site Search Report dated December 15, 2020. The following comments are presented to enable SHA and the department to continue discussions to ensure compliance with the Reforestation Law. These comments are in addition to those originally sent on June 1, 2020.

The Report Appendix A has the proposed mitigation techniques separated into two types – retention sites and planting sites. The report does include information on the location, acres and property ownership. It does not include detailed information on the forest to be retained or planting plans for the planting sites. It does contain information on the location, acres and property ownership. Based on this, it is difficult to provide specific comments or agree to each location / mitigation type.

The following are comments for both the retention sites and planting sites:

- The Recommended Retention Sites: The provided information does not specifically state whether the identified properties are existing or proposed banks or if offsite retention is the method to be used. To clarify, the statute does not allow offsite retention of forest but does allow banking that is in compliance with Forest Conservation Act's mitigation banking requirements. My office will need to review each banking site to determine if the banks are in compliance with the recently released Opinion of the Attorney General dated October 26, 2020 [105 Opinions of the Attorney General (2020)].
- The Recommended Planting Sites: The provided information does not include planting plans but does give locations which are under different types of government ownership – federal, state and county. My office will need to review each to determine if the sites are in compliance with the existing Policy Number 2003:01 Forest Conservation Implementation and Mitigation on DNR Lands or the existing policy in effect at the time of the submittals. We will also need documentation that the federal and county land managers are in agreement to the planting and also awareness that these planted areas cannot be used as mitigation sites for their own construction projects.

If you have any questions, I can be reach at (410)-260-8511 or via email at [marian.honeczy@maryland.gov](mailto:marian.honeczy@maryland.gov).

Sincerely,



Marian Honeczy, AICP, CA  
Supervisor, Urban & Community Forestry

cc: Christopher Homeister, DNR Environmental Review Program, MES/SHA Liaison



---

March 23, 2021

Ms. Marian Honeczy  
Supervisor Urban & Community Forestry  
Maryland Forest Service  
Department of Natural Resources  
580 Taylor Ave., E-1  
Annapolis MD 21401

Dear Ms. Honeczy:

Thank you for your comments on the I-495 & I-270 Managed Lanes Study (MLS) Maryland Reforestation Law Mitigation Site Search Report dated December 15, 2020, as well as your comments and guidance on the Reforestation Law permitting requirements provided in your letter dated June 1, 2020. Please see below for point-by-point responses to your comments.

Comments From 1/6/21 Letter with Responses:

- *DNR Comment 1 - The Recommended Retention Sites: The provided information does not specifically state whether the identified properties are existing or proposed banks or if offsite retention is the method to be used. To clarify, the statute does not allow offsite retention of forest but does allow banking that is in compliance with Forest Conservation Act's mitigation banking requirements. My office will need to review each banking site to determine if the banks are in compliance with the recently released Opinion of the Attorney General dated October 26, 2020 [105 Opinions of the Attorney General (2020)].*

Response 1 – The identified properties listed as “proposed retention sites” in the report are proposed off-site forest retention banks, not existing banks. We understand that your office will need to review any proposed banking site, but we request general clarification at this stage on whether we should proceed with development of any of the proposed forest retention banks for Maryland Reforestation Law (MD Nat Res Code § 5-103) compliance in light of the Opinion of the Attorney General dated October 26, 2020. We had included these proposed forest retention bank sites in our site search based on previous coordination with your office. While our interpretation of the Opinion of the Attorney General dated October 26, 2020 is that forest retention banks are not acceptable under the Forest Conservation Act (FCA), and therefore would not be acceptable under Maryland Reforestation Law, we request that you provide feedback on whether forest retention banks may be accepted as Maryland Reforestation Law mitigation and whether to include these proposed forest retention banks as recommended mitigation for MLS forest impacts in the site search report.



If banks are allowed, please provide feedback on whether the locations identified are suitable and whether the methodology discussed in the report to identify these proposed bank sites on Maryland Department of Transportation State Highway Administration (MDOT SHA) excess lands is acceptable. Once we receive your feedback on the legality of forest retention banks for Maryland Reforestation Law compliance and our proposed retention site locations, if forest retention banks will be allowed, we will revise the report to clarify that the “proposed retention sites” are proposed forest retention banks. If forest retention banks are allowed, it will be the P3 Developer's responsibility to conduct more detailed forest assessments as part of the off-site bank creation process and MDOT SHA will coordinate with DNR Forest Service as needed to establish these off-site banks.

If you concur that forest retention banks are not acceptable Maryland Reforestation Law mitigation, we will revise the report to document that the previously proposed forest retention bank sites are not recommended Maryland Reforestation Law mitigation sites. As documented in the site search report provided on December 15, 2020, we anticipate that payment into the Reforestation Fund will be needed based on the results of our site search (including proposed forest retention bank sites) and analysis of potential forest impacts. The required payment would be significantly larger if the use of credits from these proposed forest retention banks along with the existing approved forest retention banks is not acceptable mitigation. Therefore, we would like your acknowledgement that the methodology used for this site search is appropriate and that the use of approved mitigation banks and payment into the Reforestation Fund will be allowed as needed to meet the mitigation requirements of the project.

- *DNR Comment 2 - The Recommended Planting Sites: The provided information does not include planting plans but does give locations which are under different types of government ownership - federal, state and county. My office will need to review each to determine if the sites are in compliance with the existing Policy Number 2003:01 Forest Conservation Implementation and Mitigation on DNR Lands or the existing policy in effect at the time of the submittals. We will also need documentation that the federal and county land managers are in agreement to the planting and also awareness that these planted areas cannot be used as mitigation sites for their own construction projects.*
- Response 2 – We request concurrence on all proposed planting site locations based on the planning level information provided in the site search report before we proceed with developing planting plans for these sites. We understand that your concurrence on the site locations does not constitute final approval of the mitigation sites on DNR property or other public lands. After we receive your concurrence that the site locations are appropriate, the P3 Developer will proceed with developing the planting plans for the proposed sites. For planting on other public partner properties, we would follow requirements of property owner and Reforestation Law. The agreements with federal and county landowners will be developed as design progresses and will be provided with our submittals for each contract.

As part of your review of the MLS Maryland Reforestation Law Mitigation Site Search Report, please provide feedback on whether the site search methodology and the proposed planting site locations are acceptable as documentation of available Reforestation Law mitigation opportunities on public lands within the affected counties and watersheds and payment into the Reforestation Fund will be allowed as needed to meet the mitigation requirements of the project.



Comments From 6/1/20 Letter with Responses:

- *DNR Comment 3 - During the design/build process, each contract will submit preliminary plans or early construction plans for review and approval. The original mitigation acres, per those plans, will be included in the initial approval letter for each contract. If all required information is included in the Reforestation Law Project Review package, then Maryland Forest Service (MFS) review will be completed within 60 calendar days from receipt. If items are missing, the 60 days will restart with each resubmittal. (\*\*Contract is a discrete section of line with its own design team; identified by the contract number on the project review form.) Utilizing DNR lands, including Maryland Park Service (MPS), for mitigation will require a letter from the unit, including MPS, agreeing to the use and identifying the property/park and area location.*
- Response 3 – Understood
- *DNR Comment 4 - Mitigation is to occur per contract and be submitted with the contract's Project Review form package (see first bullet). The mitigation site will be the size as described in the first bullet. If the mitigation site is larger than contract 1, then contract 2 can utilize the remaining area; contract 1 mitigation acres must be established prior to contract 2 initial approval. Each contract's mitigation will be established in this manner:*
  - *For DNR lands: commitment and establishment (planted) within 5 years of approval of contract review.*
  - *For other lands, establishment of planting sites within 2 years or three growing seasons of completion of construction of a contract.*
- Response 4 – Please confirm that this comment about requiring establishment of contract 1 mitigation acres before contract 2 initial approval refers only to situations where the mitigation from contract 1 will be used on contract 2.

We understand DNR's interest in having the proposed mitigation sites on DNR property planted in a timely manner, however some of the DNR planting sites are not in the affected county/watershed of the first mainline contract. MDOT SHA will commit to planting approved mitigation sites on DNR property within five years of approval of the first MLS mainline contract, as long as DNR grants a variance allowing planting sites outside of the affected watershed/county of the first contract. MDOT SHA will submit a variance request to allow planting sites within the Patuxent watershed for mitigation of forest impacts in the Washington Metropolitan Watershed associated with the first mainline contract.

Please provide a response to our letter dated September 9, 2020 requesting a variance to allow planting of the proposed reforestation sites within Newtowne Neck State Park for MLS Reforestation Law mitigation.



- *DNR Comment 5 - Reforestation Law enables SHA to establish banks but these banks are required to comply with FCA statute. If an easement is necessary for state lands, MFS and DNR's OAG will work with SHA on the document. Purchasing of bank credits through local government approved banks can occur and must comply with local ordinances. Proof of purchase of credits will be required at time of purchase. However, if using a bank for all the contracts, each contract's mitigation acres must be protected according to statute at time of each contract's initial approval letter; not upon completion of initial approval of all the contracts. If placing banks on DNR land, then FCA bank requirements are required. If this occurs, MFS, MPS and SHA can meet to discuss further. (\*\*\*)Bank defined as establishing a mitigation area for more than one contract)*
- Response 5 – We anticipate that all off-site planting sites identified will be needed to meet the mitigation requirements of the first contract, provided that DNR grants the variance requests referenced above. If the situation arises where a mitigation site will be needed for contract 1 and contract 2, we would only plant the area needed for contract 1 to avoid the need for bank establishment. The remaining area would be planted during contract 2. Note that we are still concerned with the precedent that this could set, as this definition of bank is not included in Reforestation Law and is not consistent with how DNR has implemented the law on previous MDOT SHA alternative delivery projects (e.g., the Intercounty Connector). Requiring easements for Reforestation Law planting sites creates difficulty in identifying suitable mitigation to comply with the requirement to reforest public lands, as public landowners are typically unwilling (or unable) to place easements on their own property. The result of this requirement could be fewer public landowners willing to cooperate with MDOT SHA to provide Reforestation Law mitigation on their property, ultimately requiring a larger payment into the Reforestation Fund.
- *DNR Comment 6 - Use of fee-in-lieu is a last option after all other mitigation methods and MFS and SHA can discuss further at that time.*
- Response 6 – Based on our site search, fee-in-lieu would be required for this project. Does MFS concur?
- *DNR Comment 7 - Adjustments/ modifications to each contract which effect the initial approval letter mitigation requirement will be submitted for review and approval when the design is at a later stage such as almost complete to complete design stage. The revised required mitigation will be reflected in revised approval letters per each contract.*
- Response 7 – Understood



Ms. Marian Honeczy  
Page Five

Please contact Ms. Caryn Brookman, Environmental Program Manager for the I-495 & I-270 Managed Lanes Study, directly if you have any questions. Ms. Brookman can be reached at [cbrookman@mdot.maryland.gov](mailto:cbrookman@mdot.maryland.gov) or 410-637-3335.

Sincerely,



Jeffrey T. Folden, P.E., DBIA  
Deputy Director, I-495 and I-270 P3 Office

cc: Ms. Caryn J. G. Brookman, Environmental Program Manager, I-495 and I-270 P3 Office, MDOT SHA  
Mr. Bob Maimone, I-495 and I-270 P3 Office, MDOT SHA  
Ms. Kate Gordon, I-495 and I-270 P3 Office, MDOT SHA  
Mr. Greg O'Hare, I-495 and I-270 P3 Office, MDOT SHA  
Ms. Erron Ramsey, I-495 and I-270 P3 Office, MDOT SHA  
Ms. Gwen Gibson, Environmental Review Program, MD DNR



**ATTACHMENT 2B:**  
**MDNR CORRESPONDENCE - MAY 2021**



**From:** [Marian Honeczy -DNR-](#)  
**To:** [Stacy Talmadge \(Consultant\)](#)  
**Cc:** [Caryn Brookman \(Consultant\)](#); [Bob Maimone](#); [Kate Gordon](#); [Greg OHare](#); [Erron Ramsey](#); [gwendolyn.gibson@maryland.gov](#); [Jeffrey Folden](#)  
**Subject:** Re: I-495 & I-270 Managed Lanes Study: Response to Reforestation Law Comments  
**Date:** Monday, May 3, 2021 10:06:01 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)

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As per the Office of the Attorney General's Opinion from last fall, the ability to utilize retention mitigation banks for FCA (and Reforestation Law) mitigation purposes has been determined not to be in keeping with the statute. This means that retention banking is no longer permitted at both the local and state level. Reforestation Law [NRA 5-103(i)] enables the use of forest mitigation banking as stipulated in FCA. Forest mitigation banking is defined as the restoration or creation of forests. The 2021 Legislative Session HB 991 would enable the use of retention banking until 2023 if it is adopted. At that time, the department will respond more fully to your letter.



Marian Honeczy, AICP, CA  
Supervisor Urban & Community  
Forestry, MD Forest Service,  
Department of Natural Resources  
580 Taylor Ave E-1  
Annapolis, MD 21401  
[410-260-8511](tel:410-260-8511) (office)  
[marian.honeczy@maryland.gov](mailto:marian.honeczy@maryland.gov)

[Click here](#) to complete a three question customer experience survey.

On Tue, Apr 13, 2021 at 6:45 PM Stacy Talmadge (Consultant)  
<[STalmadge.consultant@mdot.maryland.gov](mailto:STalmadge.consultant@mdot.maryland.gov)> wrote:

Good afternoon Marian,

We are following up on this letter sent a few weeks ago and looking to schedule a meeting to discuss our responses. Please let us know when you and the appropriate staff may be available to meet.

Thank you,

Stacy.

**Stacy Talmadge**  
**Environmental Program Support**  
**I-495 & I-270 P3 Office**





**I-495 & I-270 P3 Office**

601 North Calvert  
Street

Baltimore, MD 21202

**Mailing Address**

707 North Calvert  
Street P-601

Baltimore, MD 21202

Email: [stalmadge@mdot.maryland.gov](mailto:stalmadge@mdot.maryland.gov)

Office: 410.637.3349

[www.roads.maryland.gov](http://www.roads.maryland.gov)

[www.495-270-P3.com](http://www.495-270-P3.com)



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**From:** Stacy Talmadge (Consultant)

**Sent:** Tuesday, March 23, 2021 2:39 PM

**To:** Marian Honeczy -DNR- <[marian.honeczy@maryland.gov](mailto:marian.honeczy@maryland.gov)>

**Cc:** Caryn Brookman (Consultant) <[CBrookman.consultant@mdot.maryland.gov](mailto:CBrookman.consultant@mdot.maryland.gov)>; Bob Maimone <[bob@blackwaterenvironmentalgroup.com](mailto:bob@blackwaterenvironmentalgroup.com)>; Kate Gordon <[kgordon@rkk.com](mailto:kgordon@rkk.com)>; Greg OHare <[gohare@rkk.com](mailto:gohare@rkk.com)>; [eramsey@rkk.com](mailto:eramsey@rkk.com); [gwendolyn.gibson@maryland.gov](mailto:gwendolyn.gibson@maryland.gov); Jeffrey Folden <[JFolden1@mdot.maryland.gov](mailto:JFolden1@mdot.maryland.gov)>

**Subject:** I-495 & I-270 Managed Lanes Study: Response to Reforestation Law Comments

Good afternoon Ms. Honeczy,

Please see the attached letter for MDOT SHA's response to DNR's comments regarding the Maryland Reforestation Law Mitigation Site Search Report and overall guidance on the Reforestation Law as it relates to the Managed Lanes Study.

We appreciate your review of this comment response letter and we would like to schedule a follow-up meeting to discuss our responses the week of April 19<sup>th</sup>. We will reach out separately with available dates and times if this timing would work for you and your staff.



Thank you again for your time.

Enjoy the spring weather!

Stacy.



**I-495 & I-270 P3 Office**

**601 North Calvert  
Street**

**Baltimore, MD 21202**

**Mailing Address**

**707 North Calvert  
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**Stacy Talmadge**

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**[www.495-270-P3.com](http://www.495-270-P3.com)**





## **ATTACHMENT 3: HOUSE BILL 991**



# HOUSE BILL 991

M1

(11r2544)

## ENROLLED BILL

— Environment and Transportation/Education, Health, and Environmental Affairs —

Introduced by **Delegate Gilchrist**

Read and Examined by Proofreaders:

\_\_\_\_\_  
Proofreader.

\_\_\_\_\_  
Proofreader.

Sealed with the Great Seal and presented to the Governor, for his approval this

\_\_\_\_\_ day of \_\_\_\_\_ at \_\_\_\_\_ o'clock, \_\_\_\_\_ M.

\_\_\_\_\_  
Speaker.

## CHAPTER \_\_\_\_\_

1 AN ACT concerning

2 ~~Natural Resources—Forest Mitigation Banks—Qualified Preservation~~

3 Conservation

4 Tree Solutions Now Act of 2021

5 FOR the purpose of establishing the use of qualified ~~preservation~~ conservation in a forest  
6 mitigation bank of all or a part of certain existing forests as a standard for meeting  
7 afforestation or reforestation requirements under the Forest Conservation Act;  
8 defining the term “qualified ~~preservation~~ conservation” as it applies to the Forest  
9 Conservation Act; altering the defined term “forest mitigation banking” as it applies  
10 to the Forest Conservation Act to include the qualified ~~preservation~~ conservation of  
11 forests for certain purposes; requiring a certain landowner who enrolls in the  
12 Conservation Reserve Enhancement Program in certain fiscal years to receive a  
13 certain signing bonus; requiring certain signing bonuses to be funded in a certain  
14 manner; establishing the policy of the State to support and encourage certain  
15 tree-planting efforts, with a goal of planting and helping to maintain in the State a

### EXPLANATION: CAPITALS INDICATE MATTER ADDED TO EXISTING LAW.

[Brackets] indicate matter deleted from existing law.

Underlining indicates amendments to bill.

~~Strike out~~ indicates matter stricken from the bill by amendment or deleted from the law by amendment.

*Italics* indicate opposite chamber/conference committee amendments.





*certain number of sustainable trees of species native to the State by the end of a certain year; specifying that this goal is in addition to certain trees projected to be planted under certain programs and includes certain tree plantings accomplished through certain State programs and private efforts; establishing the intent of the General Assembly that a certain minimum number of trees should be planted in certain underserved areas; making the Department of the Environment responsible for tracking the State's progress toward meeting certain tree-planting goals and requiring the Department of the Environment to serve as the lead agency to receive certain data; establishing a 5 Million Tree Program Coordinator within the Department of the Environment; establishing the responsibilities of the Program Coordinator and requiring the Program Coordinator to consolidate certain data and make a certain report to certain committees of the General Assembly on or before a certain date each year; requiring the Governor to formally pledge the State's commitment to achieving certain tree-planting goals through the U.S. Chapter of the World Economic Forum's One Trillion Trees Initiative; requiring a certain amount from the Chesapeake and Atlantic Coastal Bays 2010 Trust Fund to be used for certain purposes in certain fiscal years; requiring the BayStat Subcabinet agencies to distribute certain funds through grants to the Green Shores Program; establishing an Urban Trees Program administered by the Chesapeake Bay Trust; providing for the purpose of the Urban Trees Program; requiring the Trust to make grants to qualified organizations for certain purposes; specifying certain eligible Program expenses for the Urban Trees Program; providing for the funding of the Urban Trees Program; requiring the Trust to seek certain funds, grants, and donations for the purpose of the Urban Trees Program; requiring a certain grant agreement to specify the allowed uses of certain funds and include provisions for the verification of certain information; requiring the Trust to report certain information concerning certain grant awards to the Department of Natural Resources and the Department of the Environment on or before a certain date each year; requiring the Department of the Environment to make certain transfers from the Bay Restoration Fund for certain purposes in a certain fiscal year, after funding certain eligible costs; establishing certain authorizations and restrictions regarding the distribution and use of certain funds in the Chesapeake and Atlantic Coastal Bays 2010 Trust Fund; providing that certain funds transferred from the Bay Restoration Fund are supplemental to and may not take the place of certain other funding; establishing the Commission for the Innovation and Advancement of Carbon Markets and Sustainable Tree Plantings; providing for the composition, chair, and staffing of the Commission for the Innovation and Advancement of Carbon Markets and Sustainable Tree Plantings; prohibiting a member of the Commission for the Innovation and Advancement of Carbon Markets and Sustainable Tree Plantings from receiving certain compensation, but authorizing the reimbursement of certain expenses; requiring the Commission for the Innovation and Advancement of Carbon Markets and Sustainable Tree Plantings to study and make recommendations regarding certain matters; requiring the Commission for the Innovation and Advancement of Carbon Markets and Sustainable Tree Plantings to report its findings and recommendations to the Governor and the General Assembly on or before a certain date; requiring the Governor to include certain appropriations in the State budget for certain programs and purposes in certain fiscal years; providing that certain money is supplemental to and may not take the place of certain*



funding; requiring the Harry R. Hughes Center for Agro–Ecology, in consultation with the Department of Natural Resources, the Department of the Environment, the Department of Planning, the Department of Agriculture, and the Chesapeake Bay Program, to conduct a technical study to review changes in forest cover and tree canopy in the State; providing for the scope of the technical study; requiring the Harry R. Hughes Center for Agro–Ecology to submit a report of its findings to the Governor and the General Assembly on or before a certain date; providing for the termination of certain provisions of this Act; providing for the application of this Act; stating a certain intent of the General Assembly; making certain provisions of this Act subject to a certain contingency; making conforming changes and a stylistic change; and generally relating to the use of qualified ~~preservation~~ conservation in a forest mitigation bank and tree planting in the State.

BY renumbering

Article – Natural Resources  
Section 5–1601(gg) through (pp), respectively  
to be Section 5–1601(hh) through (qq), respectively  
Annotated Code of Maryland  
(2018 Replacement Volume and 2020 Supplement)

BY repealing and reenacting, without amendments,

Article – Natural Resources  
Section 5–1601(a) and (b) and 5–1607(a)  
Annotated Code of Maryland  
(2018 Replacement Volume and 2020 Supplement)

BY repealing and reenacting, with amendments,

Article – Natural Resources  
Section 5–1601(o), 5–1607(b), and 5–1610.1  
Annotated Code of Maryland  
(2018 Replacement Volume and 2020 Supplement)

BY adding to

Article – Natural Resources  
Section 5–1601(gg)  
Annotated Code of Maryland  
(2018 Replacement Volume and 2020 Supplement)

BY repealing and reenacting, without amendments,

Article – Natural Resources  
Section 5–1601(hh)  
Annotated Code of Maryland  
(2018 Replacement Volume and 2020 Supplement)  
(As enacted by Section 1 of this Act)

BY adding to

Article – Agriculture



Section 8-706  
Annotated Code of Maryland  
(2016 Replacement Volume and 2020 Supplement)

BY adding to  
Article – Environment  
Section 2-1212  
Annotated Code of Maryland  
(2013 Replacement Volume and 2020 Supplement)

BY repealing and reenacting, without amendments,  
Article – Natural Resources  
Section 8-2A-02(a), 8-2A-04(a), and 8-1901  
Annotated Code of Maryland  
(2012 Replacement Volume and 2020 Supplement)

BY repealing and reenacting, with amendments,  
Article – Natural Resources  
Section 8-2A-02(f) and 8-2A-04(c)  
Annotated Code of Maryland  
(2012 Replacement Volume and 2020 Supplement)

BY adding to  
Article – Natural Resources  
Section 8-1911  
Annotated Code of Maryland  
(2012 Replacement Volume and 2020 Supplement)

BY repealing and reenacting, without amendments,  
Article – Environment  
Section 9-1605.2(i)(1)  
Annotated Code of Maryland  
(2014 Replacement Volume and 2020 Supplement)

BY repealing and reenacting, with amendments,  
Article – Environment  
Section 9-1605.2(i)(2)(xii) and (xiii)  
Annotated Code of Maryland  
(2014 Replacement Volume and 2020 Supplement)

BY adding to  
Article – Environment  
Section 9-1605.2(i)(2)(xiv) and (11)  
Annotated Code of Maryland  
(2014 Replacement Volume and 2020 Supplement)

BY repealing and reenacting, without amendments,



Article – Environment  
Section 9–1605.2(i)(1)  
Annotated Code of Maryland  
(2014 Replacement Volume and 2020 Supplement)  
(As enacted by Chapters 366 and 367 of the Acts of the General Assembly of 2017)

BY repealing and reenacting, with amendments,

Article – Environment  
Section 9–1605.2(i)(2)(xi) and (xii)  
Annotated Code of Maryland  
(2014 Replacement Volume and 2020 Supplement)  
(As enacted by Chapters 366 and 367 of the Acts of the General Assembly of 2017)

BY adding to

Article – Environment  
Section 9–1605.2(i)(2)(xiii) and (10)  
Annotated Code of Maryland  
(2014 Replacement Volume and 2020 Supplement)  
(As enacted by Chapters 366 and 367 of the Acts of the General Assembly of 2017)

SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF MARYLAND, That Section(s) 5–1601(gg) through (pp), respectively, of Article – Natural Resources of the Annotated Code of Maryland be renumbered to be Section(s) 5–1601(hh) through (qq), respectively.

SECTION 2. AND BE IT FURTHER ENACTED, That the Laws of Maryland read as follows:

### Article – Natural Resources

5–1601.

(a) In this subtitle the following words have the meanings indicated.

(b) “Afforestation” means the establishment of a tree cover on an area from which it has always or very long been absent, or the planting of open areas which are not presently in forest cover.

(c) “Forest mitigation banking” means the intentional restoration [or creation], **CREATION, OR QUALIFIED ~~PRESERVATION~~ CONSERVATION** of forests undertaken expressly for the purpose of providing credits for afforestation or reforestation requirements with enhanced environmental benefits from future activities.

**(GG) “QUALIFIED ~~PRESERVATION~~ CONSERVATION” MEANS THE ~~PRESERVATION~~ CONSERVATION OF ALL OR A PART OF AN EXISTING FOREST THAT IS:**



(1) ~~APPROVED~~ WAS APPROVED ON OR BEFORE DECEMBER 31, 2020,  
BY THE APPROPRIATE STATE OR LOCAL FOREST CONSERVATION PROGRAM FOR THE  
PURPOSE OF ESTABLISHING A FOREST MITIGATION BANK; AND

(2) ~~ENCUMBERED~~ IS ENCUMBERED IN PERPETUITY BY A  
RESTRICTIVE EASEMENT, COVENANT, OR ANOTHER SIMILAR MECHANISM  
RECORDED IN THE COUNTY LAND RECORDS TO ~~PRESERVE~~ CONSERVE ITS  
CHARACTER AS A FOREST.

(hh) (1) “Reforestation” or “reforested” means the creation of a biological  
community dominated by trees and other woody plants containing at least 100 trees per  
acre with at least 50% of those trees having the potential of attaining a 2 inch or greater  
diameter measured at 4.5 feet above the ground, within 7 years.

(2) “Reforestation” includes landscaping of areas under an approved  
landscaping plan that establishes a forest that is at least 35 feet wide and covering 2,500  
square feet of area.

(3) “Reforestation” for a linear project which involves overhead  
transmission lines may consist of a biological community dominated by trees and woody  
shrubs with no minimum height or diameter criteria.

5–1607.

(a) The preferred sequence for afforestation and reforestation shall be established  
by the State or local authority in accordance with the following after all techniques for  
retaining existing forest cover on-site have been exhausted:

(1) Those techniques that enhance existing forest and involve selective  
clearing or supplemental planting on-site;

(2) On-site afforestation or reforestation may be utilized where the  
retention options have been exhausted. In those cases, the method shall be selected in  
accordance with subsection (b) of this section, and the location shall be selected in  
accordance with subsection (d) of this section;

(3) (i) Off-site afforestation or reforestation in the same watershed or  
in accordance with an approved master plan may be utilized where the applicant has  
demonstrated that no reasonable on-site alternative exists, or where:

1. Any on-site priority areas for afforestation or  
reforestation have been planted in accordance with subsection (d) of this section; and



2. The applicant has justified to the satisfaction of the State or local jurisdiction that environmental benefits associated with off-site afforestation or reforestation would exceed those derived from on-site planting;

(ii) In these cases, the method shall be selected in accordance with subsection (b) of this section, and the location shall be selected in accordance with subsection (d) of this section; and

(iii) Off-site afforestation or reforestation may include the use of forest mitigation banks which have been so designated in advance by the State or local forest conservation program which is approved by the Department; and

(4) The State or local jurisdiction may allow an alternative sequence for a specific project if necessary to achieve the objectives of a local jurisdiction's land use plans or policies or to take advantage of opportunities to consolidate forest conservation efforts.

(b) Standards for meeting afforestation or reforestation requirements shall be established by the State or local program using one or more of the following methods:

(1) Forest creation in accordance with a forest conservation plan using one or more of the following:

(i) Transplanted or nursery stock;

(ii) Whip and seedling stock; or

(iii) Natural regeneration where it can be shown to adequately meet the objective of the forest conservation plan.

**(2) THE USE OF QUALIFIED ~~PRESERVATION~~ CONSERVATION COMPLETED IN A FOREST MITIGATION BANK, IN WHICH CASE, THE AFFORESTATION OR REFORESTATION CREDIT GRANTED MAY NOT EXCEED 50% OF THE FOREST AREA ENCUMBERED IN PERPETUITY.**

**(3)** The use of street trees in a municipal corporation with a tree management plan, in an existing population center designated in a county master plan that has been adopted to conform with the Economic Growth, Resource Protection, and Planning Act of 1992, or in any other designated area approved by the Department as part of a local program, under criteria established by the local program, subject to the approval of the Department, using:

(i) Street trees as a permissible step in the priority sequence for afforestation or reforestation and, based on a mature canopy coverage, may grant full credit as a mitigation technique; and



(ii) Acquisition as a mitigation technique of an off-site protective easement for existing forested areas not currently protected in perpetuity, in which case the afforestation or reforestation credit granted may not exceed 50% of the area of forest cover protected.

[(3)] (4) When all other options, both on-site and off-site, have been exhausted, landscaping as a mitigation technique, conducted under an approved landscaping plan that establishes a forest at least 35 feet wide and covering at least 2,500 square feet of area.

5-1610.1.

(a) The Department shall develop standards and adopt regulations for the creation and use of forest mitigation banks, including criteria for tracking, crediting, maintaining, bonding, and reporting mitigation bank activities.

(b) A local jurisdiction may develop procedures for establishing forest mitigation banks as part of its forest conservation program.

(c) Mitigation banks may be [permitted] **ALLOWED** only in priority areas as identified in § 5-1607(d) of this subtitle or as identified in a comprehensive plan adopted by a local jurisdiction.

(d) The establishment of mitigation banks and their use may not alter the sequence for retention, reforestation, or afforestation on a development site as outlined in § 5-1607 of this subtitle.

(e) Criteria established by local or State programs for the use and establishment of forest mitigation banks shall include protection and conservation in perpetuity of forest mitigation banks consistent with reasonable management plans, through methods that include easements, covenants, or similar mechanisms that shall be in place at the time credits are withdrawn.

(f) This section may not be construed to require the Department or a local jurisdiction to:

(1) Establish or fund State or local mitigation banks;

(2) Fund the establishment of forest mitigation banking by the private sector; or

(3) Use State or local government land for forest mitigation banking.

(g) (1) Credits in a mitigation bank may not be approved for debiting until construction **OR QUALIFIED PRESERVATION CONSERVATION** of the mitigation bank is complete.



(2) A mitigation bank THAT REQUIRES CONSTRUCTION shall maintain sufficient credits in reserve to cover anticipated expenses of completion of the mitigation bank.

SECTION 3. AND BE IT FURTHER ENACTED, That the Laws of Maryland read as follows:

Article – Agriculture

8-706.

(A) TO MAXIMIZE PARTICIPATION IN THE CONSERVATION RESERVE ENHANCEMENT PROGRAM, IN FISCAL YEARS 2023 THROUGH 2031, INCLUSIVE, A LANDOWNER WHO ENROLLS LAND PLANTED WITH A FORESTED STREAMSIDE BUFFER SHALL RECEIVE A ONE-TIME SIGNING BONUS OF UP TO \$1,000 PER ACRE OF LAND ENROLLED.

(B) SIGNING BONUSES PROVIDED UNDER THIS SECTION SHALL BE FUNDED WITH:

(1) MONEY APPROPRIATED UNDER SUBSECTION (C) OF THIS SECTION; AND

(2) THE AMOUNT SPECIFIED IN § 9-1605.2(i)(11)(i) OF THE ENVIRONMENT ARTICLE.

(C) (1) FOR FISCAL YEARS 2024 THROUGH 2031, IN EACH YEAR THE GOVERNOR SHALL APPROPRIATE \$2,500,000 IN THE ANNUAL STATE BUDGET TO FUND TREE PLANTING UNDER THIS SECTION AND OTHER TREE PLANTING PROGRAMS ON AGRICULTURAL LAND.

(2) MONEY APPROPRIATED UNDER THIS SUBSECTION IS SUPPLEMENTAL TO AND MAY NOT TAKE THE PLACE OF FUNDING THAT WOULD OTHERWISE BE APPROPRIATED FOR TREE PLANTINGS UNDER THIS SECTION AND OTHER TREE PLANTING PROGRAMS ON AGRICULTURAL LAND.

Article – Environment

2-1212.

(A) (1) IT IS THE POLICY OF THE STATE TO SUPPORT AND ENCOURAGE PUBLIC AND PRIVATE TREE-PLANTING EFFORTS, WITH A GOAL OF PLANTING AND



HELPING TO MAINTAIN IN THE STATE 5,000,000 SUSTAINABLE TREES OF SPECIES  
NATIVE TO THE STATE BY THE END OF CALENDAR YEAR 2031.

**(2) THIS GOAL:**

**(I) IS IN ADDITION TO ANY TREES PROJECTED TO BE PLANTED  
UNDER PROGRAMS DESCRIBED IN THE 2019 DRAFT GREENHOUSE GAS EMISSIONS  
REDUCTION PLAN; AND**

**(II) INCLUDES NATIVE TREE PLANTINGS ACCOMPLISHED  
THROUGH STATE PROGRAMS AND THROUGH THE EFFORTS OF NONPROFIT AND  
PRIVATE ORGANIZATIONS.**

**(3) IT IS THE INTENT OF THE GENERAL ASSEMBLY THAT AT LEAST  
500,000 OF THE 5,000,000 TREES CALLED FOR BY THIS SUBSECTION SHOULD BE  
PLANTED IN AN "UNDERSERVED AREA", AS DEFINED IN § 8-1911 OF THE NATURAL  
RESOURCES ARTICLE.**

**(B) (1) THE DEPARTMENT:**

**(I) IS RESPONSIBLE FOR TRACKING THE STATE'S PROGRESS  
TOWARD MEETING THE GOALS ESTABLISHED UNDER SUBSECTION (A) OF THIS  
SECTION; AND**

**(II) SHALL SERVE AS THE LEAD AGENCY TO RECEIVE DATA  
FROM:**

**1. THE MARYLAND DEPARTMENT OF AGRICULTURE  
REGARDING TREE PLANTINGS ACCOMPLISHED THROUGH THE CONSERVATION  
RESERVE ENHANCEMENT PROGRAM AND OTHER AGRICULTURAL INITIATIVES;**

**2. THE DEPARTMENT OF NATURAL RESOURCES  
REGARDING TREE PLANTINGS ACCOMPLISHED THROUGH THE CHESAPEAKE AND  
ATLANTIC COASTAL BAYS 2010 TRUST FUND, THE MEL NOLAND WOODLAND  
INCENTIVES FUND, AND OTHER FORESTRY INITIATIVES; AND**

**3. THE CHESAPEAKE BAY TRUST REGARDING TREE  
PLANTINGS ACCOMPLISHED THROUGH THE URBAN TREES PROGRAM.**

**(2) (I) THERE IS A 5 MILLION TREE PROGRAM COORDINATOR  
WITHIN THE DEPARTMENT.**



1                    (II) THE PRIMARY RESPONSIBILITY OF THE PROGRAM  
2 COORDINATOR IS TO PROMOTE, FACILITATE, AND ALIGN THE STATE'S EFFORTS TO  
3 ACHIEVE THE GOALS ESTABLISHED UNDER SUBSECTION (A)(1) OF THIS SECTION.

4                    (III) ON OR BEFORE DECEMBER 1 EACH YEAR, THE PROGRAM  
5 COORDINATOR SHALL:

6                    1. CONSOLIDATE DATA ON TREE PLANTINGS FROM  
7 MULTIPLE SOURCES; AND

8                    2. REPORT, IN ACCORDANCE WITH § 2-1257 OF THE  
9 STATE GOVERNMENT ARTICLE, TO THE SENATE EDUCATION, HEALTH, AND  
10 ENVIRONMENTAL AFFAIRS COMMITTEE AND THE HOUSE ENVIRONMENT AND  
11 TRANSPORTATION COMMITTEE ON THE STATE'S PROGRESS TOWARD MEETING THE  
12 GOALS ESTABLISHED UNDER SUBSECTION (A) OF THIS SECTION.

13                    (C) THE GOVERNOR SHALL FORMALLY PLEDGE THE STATE'S COMMITMENT  
14 TO ACHIEVING THE GOALS ESTABLISHED UNDER SUBSECTION (A) OF THIS SECTION  
15 THROUGH THE U.S. CHAPTER OF THE WORLD ECONOMIC FORUM'S ONE TRILLION  
16 TREES INITIATIVE.

17                    Article – Natural Resources

18                    8-2A-02.

19                    (a) There is a Chesapeake and Atlantic Coastal Bays 2010 Trust Fund.

20                    (f) (1) The Fund may be used only for the implementation of nonpoint source  
21 pollution control projects to:

22                    (i) Support State and local watershed implementation plans by  
23 targeting limited financial resources on the most effective nonpoint source pollution control  
24 projects; and

25                    (ii) Improve the health of the Atlantic Coastal Bays and their  
26 tributaries.

27                    (2) It is the intent of the General Assembly that, when possible, moneys in  
28 the Fund shall be granted to local governments and other political subdivisions for  
29 agricultural, forestry, stream and wetland restoration, and urban and suburban stormwater  
30 nonpoint source pollution control projects, including up to 25% in matching funds to local  
31 governments and other political subdivisions that have enacted a stormwater remediation  
32 fee under § 4-202.1 of the Environment Article.



(3) (I) IN EACH FISCAL YEAR FROM 2023 THROUGH 2031, INCLUSIVE, \$1,250,000 FROM THE FUND SHALL BE USED TO FUND:

1. THE 5 MILLION TREE PROGRAM COORDINATOR POSITION IN THE DEPARTMENT OF THE ENVIRONMENT; AND

2. SUBJECT TO SUBPARAGRAPH (II) OF THIS PARAGRAPH, 13 CONTRACTOR POSITIONS IN THE FOREST SERVICE OF THE DEPARTMENT TO PROVIDE TECHNICAL ASSISTANCE, PLANNING, AND COORDINATION RELATED TO TREE PLANTINGS, TREE BUFFER MANAGEMENT, AND FOREST MANAGEMENT, INCLUDING INVASIVE VINE REMOVAL, ON PUBLIC, PRIVATE, AND AGRICULTURAL LANDS AND IN "UNDERSERVED AREAS" AS DEFINED IN § 8-1911 OF THIS ARTICLE.

(II) THE DEPARTMENT SHALL MAKE REASONABLE EFFORTS TO ENSURE THAT CONTRACTORS HIRED UNDER SUBPARAGRAPH (I)2 OF THIS PARAGRAPH REFLECT THE GEOGRAPHIC AND DEMOGRAPHIC DIVERSITY OF THE STATE.

(4) (I) IN EACH FISCAL YEAR FROM 2024 THROUGH 2031, INCLUSIVE, THE GOVERNOR SHALL INCLUDE IN THE ANNUAL STATE BUDGET AN APPROPRIATION OF \$2,500,000 TO THE FUND, TO BE USED, SUBJECT TO THE REQUIREMENTS OF SUBPARAGRAPH (II) OF THIS PARAGRAPH, FOR TREE PLANTINGS ON PUBLIC AND PRIVATE LAND.

(II) THE MONEY APPROPRIATED UNDER THIS PARAGRAPH:

1. MAY BE DISTRIBUTED IN ACCORDANCE WITH § 8-2A-04(C)(2) OF THIS SUBTITLE;

2. MAY BE USED TO COVER THE COSTS OF:

A. SITE PREPARATION, LABOR, AND MATERIALS FOR TREE-PLANTING PROJECTS;

B. MAINTAINING TREES FOLLOWING A TREE-PLANTING PROJECT; AND

C. LANDOWNER INCENTIVE PAYMENTS OR SIGNING BONUSES OF UP TO \$1,000 PER ACRE OF TREES PLANTED;

3. MAY NOT BE USED TO PLANT TREES INTENDED FOR TIMBER HARVEST; AND



1                               **4. MAY BE USED ONLY FOR TREE PLANTINGS ON**  
2 **PRIVATE LAND IF THE LANDOWNER ENTERS INTO A BINDING LEGAL AGREEMENT TO**  
3 **MAINTAIN THE PLANTED AREA IN TREE COVER FOR AT LEAST 15 YEARS.**

4                               **(III) MONEY APPROPRIATED UNDER THIS PARAGRAPH IS**  
5 **SUPPLEMENTAL TO AND MAY NOT TAKE THE PLACE OF FUNDING THAT OTHERWISE**  
6 **WOULD BE APPROPRIATED FOR TREE PLANTINGS ON PUBLIC AND PRIVATE LAND.**

7 8-2A-04.

8               (a) The BayStat Program shall direct the administration of the Trust Fund in  
9 accordance with this section.

10               (c) (1) The BayStat Program shall distribute funds from the Trust Fund to the  
11 BayStat Subcabinet agencies in accordance with the final work and expenditure plans.

12                       (2) The BayStat Subcabinet agencies shall administer the funds in  
13 accordance with the final work and expenditure plans, including the distribution of funds:

14                       (i) Through grants to:

15                               1. Counties;

16                               2. Bicounty agencies;

17                               3. Municipalities;

18                               4. Forest conservancy district boards;

19                               5. Soil conservation districts;

20                               6. Academic institutions; and

21                               7. Nonprofit organizations having a demonstrated ability to  
22 implement nonpoint source pollution control projects;

23                       (ii) To the Chesapeake and Atlantic Coastal Bays Nonpoint Source  
24 Fund established under § 9-1605.3 of the Environment Article;

25                       (iii) To the Maryland Agricultural Cost-Share Program established  
26 under Title 8, Subtitle 7 of the Agriculture Article for nonpoint source pollution control  
27 projects; [and]

28                       (iv) **TO THE GREEN SHORES PROGRAM ESTABLISHED UNDER §**  
29 **5-429 OF THIS ARTICLE; AND**



(V) To the Mel Noland Woodland Incentives Fund established under § 5-307 of this article.

8-1901.

(a) In this part the following words have the meanings indicated.

(b) “Board” means the Board of Trustees of the Chesapeake Bay Trust.

(c) “Trust” means the Chesapeake Bay Trust.

8-1911.

(A) (1) IN THIS SECTION THE FOLLOWING WORDS HAVE THE MEANINGS INDICATED.

(2) “PROGRAM” MEANS THE URBAN TREES PROGRAM.

(3) “QUALIFIED ORGANIZATION” MEANS:

(I) A NONPROFIT ORGANIZATION;

(II) A SCHOOL;

(III) A COMMUNITY ASSOCIATION;

(IV) A SERVICE, YOUTH, OR CIVIC GROUP;

(V) AN INSTITUTION OF HIGHER EDUCATION;

(VI) A COUNTY OR MUNICIPALITY; OR

(VII) A FOREST CONSERVANCY DISTRICT BOARD.

(4) “UNDERSERVED AREA” MEANS AN AREA OF THE STATE FALLING WITHIN THE BOUNDARIES OF:

(I) AN URBAN AREA, AS DELINEATED BY THE UNITED STATES CENSUS BUREAU; AND

(II) 1. A NEIGHBORHOOD THAT WAS, AT ANY POINT IN TIME, REDLINED OR GRADED AS “HAZARDOUS” BY THE HOME OWNERS’ LOAN CORPORATION;



1                   2.    A CENSUS TRACT WITH AN AVERAGE RATE OF  
2 UNEMPLOYMENT FOR THE MOST RECENT 24-MONTH PERIOD FOR WHICH DATA ARE  
3 AVAILABLE THAT EXCEEDS THE AVERAGE RATE OF UNEMPLOYMENT FOR THE STATE;

4                   3.    A CENSUS TRACT WITH A MEDIAN HOUSEHOLD  
5 INCOME FOR THE MOST RECENT 24-MONTH PERIOD FOR WHICH DATA ARE  
6 AVAILABLE THAT IS EQUAL TO OR LESS THAN 75% OF THE MEDIAN HOUSEHOLD  
7 INCOME FOR THE STATE DURING THAT PERIOD; OR

8                   4.    A HOUSING PROJECT AS DEFINED IN § 12-101 OF THE  
9 HOUSING AND COMMUNITY DEVELOPMENT ARTICLE.

10           (B)   THERE IS AN URBAN TREES PROGRAM ADMINISTERED BY THE TRUST.

11           (C)   THE PURPOSE OF THE PROGRAM IS TO PLANT NATIVE SPECIES OF TREES  
12 IN UNDERSERVED AREAS, IN FURTHERANCE OF THE GOALS ESTABLISHED UNDER §  
13 2-1212 OF THE ENVIRONMENT ARTICLE.

14           (D)   (1) BEGINNING IN FISCAL YEAR 2023, THE TRUST SHALL MAKE  
15 GRANTS TO QUALIFIED ORGANIZATIONS FOR TREE-PLANTING PROJECTS IN  
16 UNDERSERVED AREAS.

17                   (2) ELIGIBLE PROGRAM EXPENSES INCLUDE PERSONNEL COSTS,  
18 SUPPLIES, SITE PREPARATION, AND OTHER EXPENSES AND MATERIALS RELATED TO  
19 PLANNING, IMPLEMENTING, AND MAINTAINING TREE-PLANTING PROJECTS IN  
20 UNDERSERVED AREAS.

21                   (3) IN AWARDING PROGRAM GRANTS UNDER THIS SECTION, THE  
22 TRUST SHALL PRIORITIZE:

23                           (1) GRANT APPLICATIONS FROM QUALIFIED ORGANIZATIONS  
24 LOCATED IN THE UNDERSERVED AREAS WHERE THE PROPOSED TREE-PLANTING  
25 PROJECTS WILL BE IMPLEMENTED; AND

26                           (II) GRANT APPLICATIONS THAT INCLUDE PLANS FOR  
27 ENGAGING INDIVIDUALS, ORGANIZATIONS, OR BUSINESSES LOCATED IN  
28 UNDERSERVED AREAS TO IMPLEMENT AND MAINTAIN TREE-PLANTING PROJECTS IN  
29 THEIR COMMUNITIES.

30           (E)   (1) THE PROGRAM SHALL BE FUNDED WITH:

31                           (1) THE AMOUNT SPECIFIED IN § 9-1605.2(I)(11)(I) OF THE  
32 ENVIRONMENT ARTICLE; AND



1                    (II) ANY ADDITIONAL FUNDS THAT MAY BE ALLOCATED BY THE  
2 TRUST THROUGH ITS ANNUAL BUDGET PROCESS.

3                    (2) THE TRUST SHALL SEEK FEDERAL FUNDS AND GRANTS AND  
4 DONATIONS FROM PRIVATE SOURCES TO BE MADE TO THE TRUST FOR THE PURPOSE  
5 OF THE PROGRAM.

6                    (F) A GRANT AGREEMENT REGARDING FUNDS FROM THE TRUST FOR THE  
7 PROGRAM SHALL:

8                    (1) SPECIFY THE ALLOWED USE OF THE FUNDS PROVIDED UNDER THE  
9 GRANT; AND

10                    (2) INCLUDE PROVISIONS FOR VERIFICATION THAT TREE-PLANTING  
11 PROJECTS ARE BEING IMPLEMENTED AND MAINTAINED AS PLANNED.

12                    (G) ON OR BEFORE OCTOBER 1 EACH YEAR, THE TRUST SHALL REPORT TO  
13 THE DEPARTMENT AND THE DEPARTMENT OF THE ENVIRONMENT ON THE GRANTS  
14 AWARDED BY THE PROGRAM DURING THE IMMEDIATELY PRECEDING FISCAL YEAR,  
15 INCLUDING:

16                    (1) THE NAMES AND DESCRIPTIONS OF GRANT RECIPIENTS;

17                    (2) THE NUMBER AND LOCATION OF TREES PLANTED BY GRANT  
18 RECIPIENTS; AND

19                    (3) ANY OTHER INFORMATION REQUIRED BY THE DEPARTMENT OR  
20 THE DEPARTMENT OF THE ENVIRONMENT.

21                    (H) (1) FOR FISCAL YEARS 2024 THROUGH 2031, IN EACH YEAR THE  
22 GOVERNOR SHALL INCLUDE IN THE ANNUAL STATE BUDGET AN APPROPRIATION OF  
23 \$10,000,000 FOR THE PROGRAM.

24                    (2) MONEY APPROPRIATED UNDER THIS SUBSECTION IS  
25 SUPPLEMENTAL TO AND MAY NOT TAKE THE PLACE OF FUNDING THAT OTHERWISE  
26 WOULD BE APPROPRIATED FOR THE PROGRAM.

27                    SECTION 4. AND BE IT FURTHER ENACTED, That the Laws of Maryland read  
28 as follows:

29                    Article – Environment

30                    9-1605.2.



(i) (1) In this subsection, “eligible costs” means the additional costs that would be attributable to upgrading a wastewater facility to enhanced nutrient removal, as determined by the Department.

(2) Funds in the Bay Restoration Fund shall be used only:

(xii) For costs associated with the implementation of alternate compliance plans authorized in § 4–202.1(k)(3) of this article; [and]

(xiii) After funding any eligible costs identified under item (iv)1 and 2 of this paragraph, for costs associated with the purchase of cost-effective nitrogen, phosphorus, or sediment load reductions in support of the State’s efforts to restore the health of the Chesapeake Bay, not to exceed \$4,000,000 in fiscal year 2018, \$6,000,000 in fiscal year 2019, and \$10,000,000 per year in fiscal years 2020 and 2021; AND

(XIV) AFTER FUNDING ANY ELIGIBLE COSTS IDENTIFIED UNDER ITEM (IV)1 AND 2 OF THIS PARAGRAPH, FOR THE TRANSFERS REQUIRED UNDER PARAGRAPH (11) OF THIS SUBSECTION.

(11) (I) IN FISCAL YEAR 2023 THE DEPARTMENT SHALL TRANSFER FROM THE BAY RESTORATION FUND:

1. \$10,000,000 TO THE CHESAPEAKE BAY TRUST FOR THE URBAN TREES PROGRAM ESTABLISHED UNDER § 8–1911 OF THE NATURAL RESOURCES ARTICLE;

2. \$2,500,000 TO THE CHESAPEAKE AND ATLANTIC COASTAL BAYS 2010 TRUST FUND IN THE DEPARTMENT OF NATURAL RESOURCES, TO BE USED, SUBJECT TO THE REQUIREMENTS OF SUBPARAGRAPH (II) OF THIS PARAGRAPH, FOR TREE PLANTING ON PUBLIC AND PRIVATE LAND; AND

3. \$2,500,000 TO THE MARYLAND DEPARTMENT OF AGRICULTURE TO FUND TREE PLANTINGS UNDER THE CONSERVATION RESERVE ENHANCEMENT PROGRAM IN ACCORDANCE WITH § 8–706 OF THE AGRICULTURE ARTICLE AND OTHER TREE-PLANTING PROGRAMS ON AGRICULTURAL LAND.

(II) FUNDS TRANSFERRED TO THE CHESAPEAKE AND ATLANTIC COASTAL BAYS 2010 TRUST FUND UNDER SUBPARAGRAPH (I)2 OF THIS PARAGRAPH:

1. MAY BE DISTRIBUTED IN ACCORDANCE WITH § 8–2A–04(C)(2) OF THE NATURAL RESOURCES ARTICLE;

2. MAY BE USED TO COVER THE COSTS OF:



A. SITE PREPARATION, LABOR, AND MATERIALS FOR  
TREE-PLANTING PROJECTS;

B. MAINTAINING TREES FOLLOWING A TREE-PLANTING  
PROJECT; AND

C. LANDOWNER INCENTIVE PAYMENTS OR SIGNING  
BONUSES OF UP TO \$1,000 PER ACRE OF TREES PLANTED;

3. MAY NOT BE USED TO PLANT TREES INTENDED FOR  
TIMBER HARVEST; AND

4. MAY BE USED ONLY FOR TREE PLANTINGS ON  
PRIVATE LAND IF THE LANDOWNER ENTERS INTO A BINDING LEGAL AGREEMENT TO  
MAINTAIN THE PLANTED AREA IN TREE COVER FOR AT LEAST 15 YEARS.

(III) FUNDS TRANSFERRED FROM THE BAY RESTORATION FUND  
UNDER THIS PARAGRAPH ARE SUPPLEMENTAL TO AND MAY NOT TAKE THE PLACE OF  
FUNDING THAT OTHERWISE WOULD BE APPROPRIATED FOR THE PROGRAMS AND  
INITIATIVES SPECIFIED IN SUBPARAGRAPH (I) OF THIS PARAGRAPH.

SECTION 5. AND BE IT FURTHER ENACTED, That the Laws of Maryland read  
as follows:

#### Article – Environment

9-1605.2.

(i) (1) In this subsection, “eligible costs” means the additional costs that would  
be attributable to upgrading a wastewater facility to enhanced nutrient removal, as  
determined by the Department.

(2) Funds in the Bay Restoration Fund shall be used only:

(xi) Subject to the allocation of funds and the conditions under  
subsection (h) of this section, for projects related to the removal of nitrogen from on-site  
sewage disposal systems and cover crop activities; [and]

(xii) For costs associated with the implementation of alternate  
compliance plans authorized in § 4-202.1(k)(3) of this article; AND

(XIII) AFTER FUNDING ANY ELIGIBLE COSTS IDENTIFIED UNDER  
ITEM (IV)1 AND 2 OF THIS PARAGRAPH, FOR THE TRANSFERS REQUIRED UNDER  
PARAGRAPH (10) OF THIS SUBSECTION.



1                   (10) (I) IN FISCAL YEAR 2023 THE DEPARTMENT SHALL TRANSFER  
2 FROM THE BAY RESTORATION FUND:

3                   1. \$10,000,000 TO THE CHESAPEAKE BAY TRUST FOR  
4 THE URBAN TREES PROGRAM ESTABLISHED UNDER § 8-1911 OF THE NATURAL  
5 RESOURCES ARTICLE;

6                   2. \$2,500,000 TO THE CHESAPEAKE AND ATLANTIC  
7 COASTAL BAYS 2010 TRUST FUND IN THE DEPARTMENT OF NATURAL RESOURCES,  
8 TO BE USED, SUBJECT TO THE REQUIREMENTS OF SUBPARAGRAPH (II) OF THIS  
9 PARAGRAPH, FOR TREE PLANTING ON PUBLIC AND PRIVATE LAND; AND

10                   3. \$2,500,000 TO THE MARYLAND DEPARTMENT OF  
11 AGRICULTURE TO FUND TREE PLANTINGS UNDER THE CONSERVATION RESERVE  
12 ENHANCEMENT PROGRAM IN ACCORDANCE WITH § 8-706 OF THE AGRICULTURE  
13 ARTICLE AND OTHER TREE-PLANTING PROGRAMS ON AGRICULTURAL LAND.

14                   (II) FUNDS TRANSFERRED TO THE CHESAPEAKE AND ATLANTIC  
15 COASTAL BAYS 2010 TRUST FUND UNDER SUBPARAGRAPH (I)2 OF THIS  
16 PARAGRAPH:

17                   1. MAY BE DISTRIBUTED IN ACCORDANCE WITH §  
18 8-2A-04(C)(2) OF THE NATURAL RESOURCES ARTICLE;

19                   2. MAY BE USED TO COVER THE COSTS OF:

20                   A. SITE PREPARATION, LABOR, AND MATERIALS FOR  
21 TREE-PLANTING PROJECTS;

22                   B. MAINTAINING TREES FOLLOWING A PLANTING  
23 PROJECT; AND

24                   C. LANDOWNER INCENTIVE PAYMENTS OR SIGNING  
25 BONUSES OF UP TO \$1,000 PER ACRE OF TREES PLANTED;

26                   3. MAY NOT BE USED TO PLANT TREES INTENDED FOR  
27 TIMBER HARVEST; AND

28                   4. MAY BE USED ONLY FOR TREE PLANTINGS ON  
29 PRIVATE LAND IF THE LANDOWNER ENTERS INTO A BINDING LEGAL AGREEMENT TO  
30 MAINTAIN THE PLANTED AREA IN TREE COVER FOR AT LEAST 15 YEARS.

31                   (III) FUNDS TRANSFERRED FROM THE BAY RESTORATION FUND  
32 UNDER THIS PARAGRAPH ARE SUPPLEMENTAL TO AND MAY NOT TAKE THE PLACE OF



FUNDING THAT OTHERWISE WOULD BE APPROPRIATED FOR THE PROGRAMS AND INITIATIVES SPECIFIED IN SUBPARAGRAPH (I) OF THIS PARAGRAPH.

SECTION 6. AND BE IT FURTHER ENACTED, That:

(a) There is a Commission for the Innovation and Advancement of Carbon Markets and Sustainable Tree Plantings.

(b) The Commission consists of the following members:

(1) the Secretary of the Environment, or the Secretary's designee;

(2) the Secretary of Natural Resources, or the Secretary's designee;

(3) the Secretary of Agriculture, or the Secretary's designee;

(4) the State Treasurer, or the State Treasurer's designee;

(5) one representative of the Maryland Association of Counties, selected by the Maryland Association of Counties;

(6) one representative of the Maryland Municipal League, selected by the Maryland Municipal League;

(7) one representative of the Commission on Environmental Justice and Sustainable Communities, appointed by the Commission on Environmental Justice and Sustainable Communities;

(8) one representative of the Chesapeake Bay Foundation, appointed by the Chesapeake Bay Foundation;

(9) one representative of the Maryland League of Conservation Voters, appointed by the Maryland League of Conservation Voters;

(10) one representative of Blue Water Baltimore, appointed by Blue Water Baltimore;

(11) one representative of the Maryland Chapter of the Nature Conservancy, selected by the Maryland Chapter of the Nature Conservancy;

(12) one representative of the Maryland Farm Bureau, selected by the Maryland Farm Bureau;

(13) one researcher from the University of Maryland, College Park, who has expertise in forestry-based carbon sequestration, selected by the President of the University of Maryland, College Park;



1                   (14) one representative of Patapsco Heritage Greenway, selected by Patapsco  
2 Heritage Greenway; and

3                   (15) the President of the Maryland Forestry Foundation, or the President's  
4 designee.

5           (c) The Secretary of the Environment, or the Secretary's designee, shall chair the  
6 Commission.

7           (d) The Department of the Environment and, as necessary, the Department of  
8 Natural Resources shall provide staff for the Commission.

9           (e) A member of the Commission:

10                   (1) may not receive compensation as a member of the Commission; but

11                   (2) is entitled to reimbursement for expenses under the Standard State  
12 Travel Regulations, as provided in the State budget.

13           (f) (1) The Commission shall develop:

14                   (i) a plan to achieve the State's carbon mitigation goal of planting  
15 5,000,000 native trees by 2030 in accordance with § 2-1212 of the Environment Article, as  
16 enacted by Section 4 of this Act;

17                   (ii) a plan to ensure that trees planted under this Act are properly  
18 maintained;

19                   (iii) recommendations regarding the establishment of a  
20 Maryland-based carbon offset market to support the State's tree-planting goals; and

21                   (iv) recommendations on reviewing State policies to reduce and fully  
22 mitigate the clearing of trees during the construction of State highways and other  
23 transportation projects.

24           (2) The plans and recommendations shall include:

25                   (i) science-based guidelines to inform a State strategy for using trees  
26 to maximize carbon sequestration, mitigate heat deserts, and improve water and air quality;

27                   (ii) recommendations regarding potential planting sites, including  
28 the impact that planting trees at these sites will have on agricultural and other private land  
29 and associated ecological services;

30                   (iii) a strategy for ensuring that at least 500,000 trees are planted in  
31 underserved areas, in accordance with § 2-1212 of the Environment Article, as enacted by  
32 Section 4 of this Act;



(iv) a list of native tree species that will be planted;

(v) a review of existing programs and current resource capacity for tree plantings;

(vi) a plan for expanding or creating new capacities necessary to achieve the State's tree-planting goals;

(vii) an analysis of trees scheduled to be cut down and the impact that will have on carbon sequestration;

(viii) an overview and analysis of logistical and policy barriers to achieving the State's tree-planting goals;

(ix) a plan for seeking private capital to support tree plantings and forest conservation in the State;

(x) a plan for establishing a State-based carbon offset market to support the State's tree-planting goals;

(xi) recommendations for policy changes necessary to facilitate the use of the Water Quality Revolving Loan Fund and Environmental Impact Bonds for tree plantings; and

(xii) a plan for reviewing future transportation procurement to minimize and fully mitigate tree clearing.

(g) On or before October 31, 2022, the Commission shall report its plan and recommendations to the Governor and, in accordance with § 2-1257 of the State Government Article, the General Assembly.

**SECTION ~~3~~ 7. AND BE IT FURTHER ENACTED, That:**

(a) (1) The Harry R. Hughes Center for Agro-Ecology, in consultation with the Department of Natural Resources, the Department of the Environment, the Department of Planning, the Department of Agriculture, and the Chesapeake Bay Program, as appropriate, shall conduct a technical study to review changes in forest cover and tree canopy in the State.

(2) The technical study required under paragraph (1) of this subsection shall, to the extent practicable, include:

(i) a survey and mapping of:

1. existing forest cover and tree canopy in the State; and



4. the relationship between fee-in-lieu rates under the Forest Conservation Act and the market for forest mitigation banks; and



1                   5.     whether expanding the use of forest mitigation banks  
2 could provide water quality improvements and other beneficial results; ~~and~~

3                   6.     the extent to which existing forest mitigation banks are  
4 composed of forests that have been created or restored versus forests that are under qualified  
5 conservation; and

6                   7.     the effect of using qualified conservation completed in a  
7 forest mitigation bank to meet afforestation or reforestation requirements under State or  
8 local programs on the State's policy of achieving no net loss of forest; and

9                   (vii) a programmatic and funding review of federal, State, and local  
10 tree and forest planting programs such as:

11                   1.     Marylanders Plant Trees;

12                   2.     Lawn to Woodland;

13                   3.     Backyard Buffers;

14                   4.     Conservation Reserve Enhance Program; and

15                   5.     other programs used to further TMDL Watershed  
16 Implementation Plans and MS4 permit compliance.

17               (b)     On or before December 1, 2023, the Harry R. Hughes Center for Agro-Ecology  
18 shall submit a report of the findings of the technical study required under subsection (a) of  
19 this section to the Governor and, in accordance with § 2-1257 of the State Government  
20 Article, the General Assembly.

21               SECTION ~~4~~ 8. AND BE IT FURTHER ENACTED, That:

22               (a)     Subject to subsection (b) of this section, Section 1 of this Act shall be construed  
23 to apply retroactively and shall be applied to and interpreted to affect any qualified  
24 conservation completed, and any resulting afforestation or reforestation credits given, to  
25 the extent they were approved in good faith under a State or local program as a forest  
26 mitigation bank before the effective date of this Act.

27               (b)     Nothing in this section requires a State or local program to reevaluate or alter  
28 any of its final determinations related to the granting or denial of afforestation or  
29 reforestation credits for qualified conservation made before the effective date of this Act.

30               SECTION ~~5~~ 9. AND BE IT FURTHER ENACTED, That it is the intent of the  
31 General Assembly to review the findings in the technical study on changes in forest cover  
32 and tree canopy in Maryland required under Section ~~3~~ 7 of this Act and, based on the  
33 findings, to consider any legislative or other changes necessary to improve the



1 implementation and effectiveness of the Forest Conservation Act, including any changes to  
2 the forest mitigation banking program in the State.

3 *SECTION 10. AND BE IT FURTHER ENACTED, That Section 5 of this Act shall*  
4 *take effect on the taking effect of the termination provision specified in Section 5 of Chapters*  
5 *366 and 367 of the Acts of the General Assembly of 2017. If that termination provision takes*  
6 *effect, Section 4 of this Act, with no further action required by the General Assembly, shall*  
7 *be abrogated and of no further force and effect. This Act may not be interpreted to have any*  
8 *effect on that termination provision.*

9 *SECTION ~~3~~ ~~6~~ 11. AND BE IT FURTHER ENACTED, That , except as provided in*  
10 *Section 10 of this Act, this Act shall take effect ~~October~~ June 1, 2021. ~~Section 3~~ Sections 1,*  
11 *2, and 7 of this Act shall remain effective for a period of 3 years and 1 month and, at the*  
12 *end of ~~May 31~~ June 30, 2024, ~~Section 3~~ Sections 1, 2, and 7 of this Act, with no further*  
13 *action required by the General Assembly, shall be abrogated and of no further force and*  
14 *effect. Subject to Section 10 of this Act, Sections 3, 4, and 5 of this Act shall remain effective*  
15 *for a period of 10 years and 1 month and, at the end of June 30, 2031, Sections 3, 4, and 5*  
16 *of this Act, with no further action required by the General Assembly, shall be abrogated and*  
17 *of no further force and effect. Section 6 of this Act shall remain effective for a period of 2*  
18 *years and 1 month and, at the end of June 30, 2023, Section 6 of this Act, with no further*  
19 *action required by the General Assembly, shall be abrogated and of no further force and*  
20 *effect.*

Approved:

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Governor.

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Speaker of the House of Delegates.

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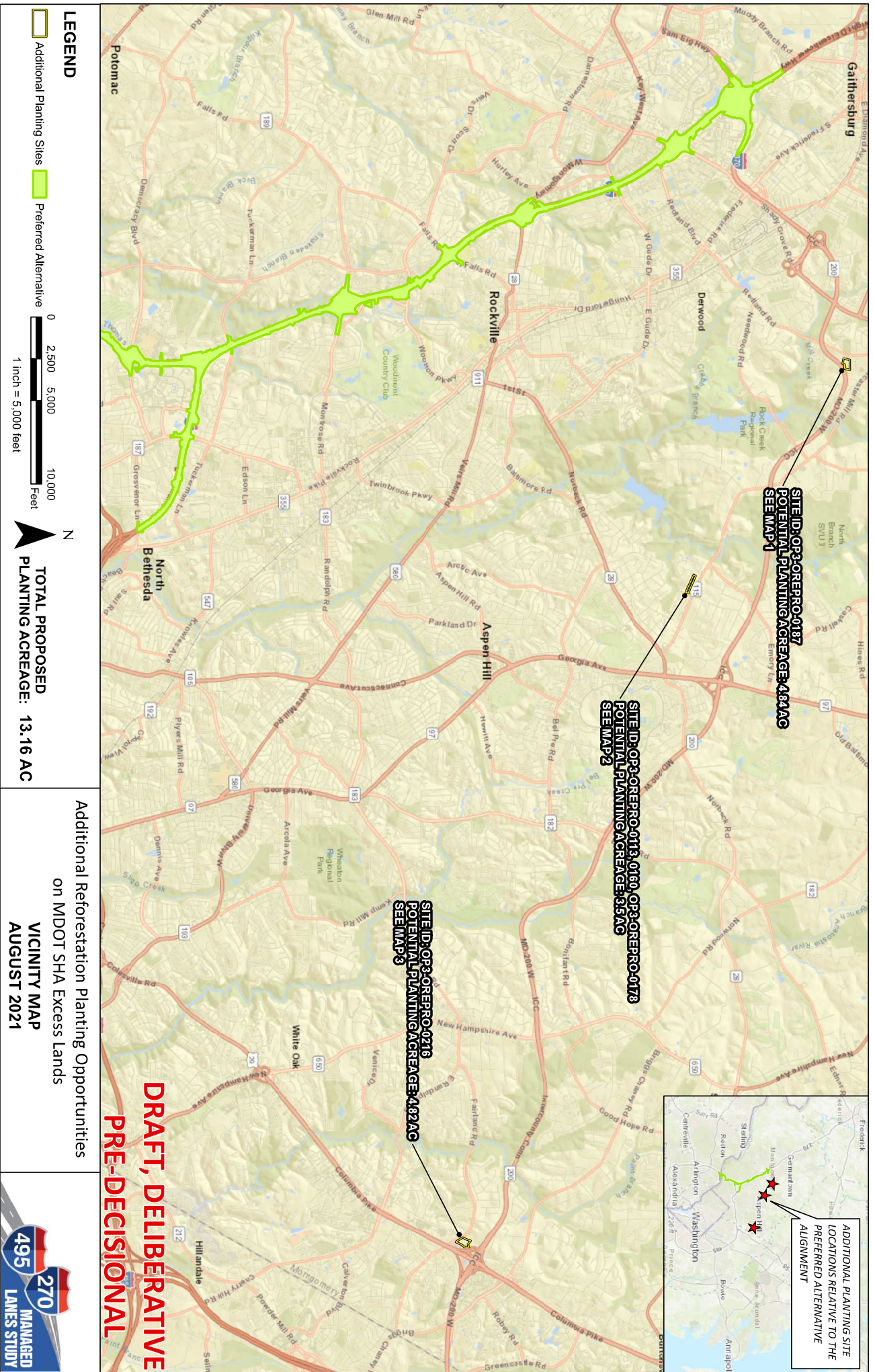
President of the Senate.



## **ATTACHMENT 4:**

### **ADDITIONAL PLANTING SITE MAPS**









**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

L-495 & L-270 MLS Reforestation Law Mitigation  
**Potential Forest Planting Site**  
Montgomery County  
Washington Metropolitan Watershed

**SITE ID = OP3-OREPRO-0187**

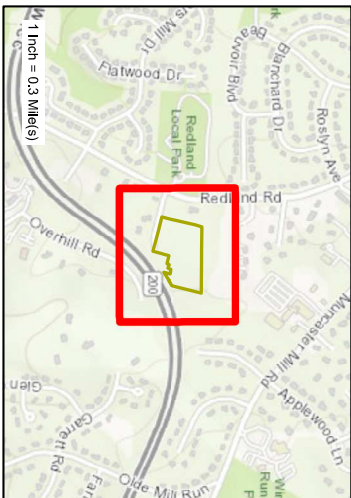
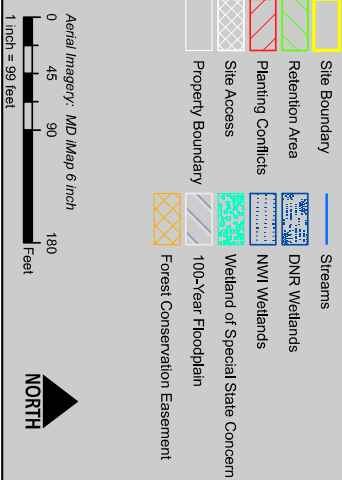
**Property Owner: MDOT SHA**  
**Description: Excess Lands**

**Site Acres = 4.95**  
**Total Potential Credit Acres\* = 4.84**  
**Plantable Acres\*\* = 4.84**

\*Credit acres assume a 1:1 credit ratio for planting sites.

\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Site is mostly an open fallow field. Mile-a-minute was beginning to establish at the time of the field visit. Additionally, Bradford Pear is present in a hedgerow in the northwest corner of the site.



AUGUST 2021

Map 1 of 3







**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

**Notes:** Significant coordination with adjacent property owners would be required due to backyard encroachment into parcel.

**Property Owner:** MDOT SHA

**Description:** Excess Lands

**Site Acres = 3.6985**

**Total Potential Credit Acres\* = 3.5**

**Plantable Acres\*\* = 3.5**

\*Credit acres assume a 1:1 credit ratio for planting sites.

\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within untreated wetlands.

**Legend:**

- Site Boundary
- Retention Area
- Planting Conflicts
- Site Access
- Property Boundary
- Streams
- DNR Wetlands
- NWI Wetlands
- Wetland of Special State Concern
- 100-Year Floodplain
- Forest Conservation Easement

**Scale:**

Aerial Imagery: MD Map 6 inch

0 75 150 300 Feet

1 inch = 158 feet

**North Arrow**

**Map 2 of 3**

**AUGUST 2021**

**495 & I-270 MLRS Reforestation Law Mitigation  
Potential Forest Planting Site  
Montgomery County  
Washington Metropolitan Watershed**

**SITE ID: OP3-OREPRO-0113, OP3-0160  
OP3-OREPRO-0178**

1 inch = 0.4 Mile(s)





**DRAFT, DELIBERATIVE  
PRE-DECISIONAL**

I-495 & I-270 MLS Reforestation Law Mitigation  
**Potential Forest Planting Site**  
Montgomery County  
Washington Metropolitan Watershed

**SITE ID = OP3-OREPRO-0216**

**Property Owner: MDOT SHA**  
**Description: Excess Lands**

**Site Acres = 6.4**

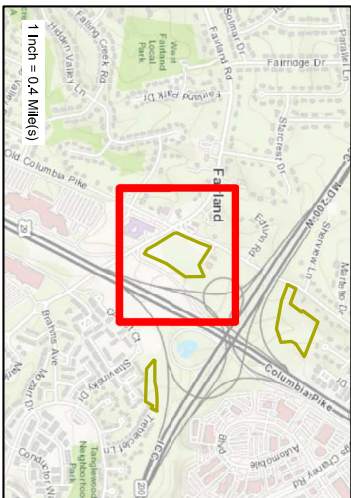
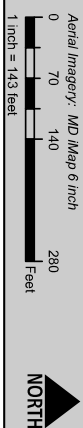
**Total Potential Credit Acres\* = 4.82**

**Plantable Acres\*\* = 4.82**

\*Credit acres assume a 1:1 credit ratio for planting sites.

\*\*Site acreage will be refined during design by P3 Section Developer in coordination with property owner. No planting is proposed within delineated wetlands.

**Notes:** Need ORE and field review to confirm if this site is suitable, no mapped wetlands, waters, floodplains, FCEs, or utility conflicts within parcel.



AUGUST 2021

Map 3 of 3

