

NOVA Parks Board Meeting Agenda
May 15, 2025

Location: Potomac Overlook Regional Park
2845 N. Marcey Road
Arlington VA 22207

6:15 – 7:00 P.M. Guided Hike

7:00 P.M. Buffet Dinner

7:30 P.M. Board Meeting

- Call to Order
- Amendments to Agenda
- Approve March Meeting Minutes
- Treasurer's Report/Status of Funds

7:40 P.M. FY'2026 Operating Budget Approval – Patrick Wells

8:00 P.M. Executive Director recruitment timeline and interview committees

8:20 P.M. Goals and Retirement Party for the current Executive Director

8:30 P.M. Update – W&OD Visitor Center

9:00 P.M. Admin Items:

- a) VDOT Drainage Easement at Bull Run
- b) Modification to the goal to create a trash-free park
- c) Transfer of funds from the Bull Run Cell Tower Contract to the Capital Endowment

9:10 P.M. Closed session for real estate and legal matters as allowed by § 2.2-3712

Actions on any issues discussed in closed session

Adjourn

NOVA PARKS

Board Meeting, March 20, 2025

7:30 p.m.

NOVA Parks Headquarters

5400 Ox Road

Fairfax Station, VA 22039

MINUTES

DRAFT

ATTENDANCE:

Board Members:

In Attendance:

Sean Kumar, Chairman

Paul Baldino, Vice Chairman

Mark Chandler

Dave Gustafson

Douglas Stewart

Paul Ferguson arrived at 7:36

Michael Nardolilli

Scott Price

Stella Koch

Via Zoom

James Bonfils via Zoom due to business travel

Cate Magennis Wyatt via Zoom due to business travel

Patricia Harrison via Zoom caring for ill

Staff:

Paul Gilbert, Executive Director

Chris Pauley, Director of Operations

Lauren Weaver, Director of Finance

Brian Nolan, Director of Planning and Development

Blythe Russian, Park Operations Superintendent

Kevin Casalenuovo, Park Operations Superintendent

Danielle Endler, HR Administrator

Mike DePue, Planning Administrator

John Bell, Senior Planner

Patrick Wells, Budget Administrator

Kelly Gilfillen, Marketing and Communications Director

Leslie Preble, Planning and Development Administrative Assistant

Sigma Chawdhury, Budget Analyst

Michael Gephart, Operations Intern

Guests:

Yolanda Green, External Affairs, Dominion Energy

Amanda Keyes, Manager, Transmission Forestry and Line Services, Dominion Energy

Justin Stadler, Supervisor, Transmission Forestry, Dominion Energy

Yolanda Howze, BakerTilly

OPEN SESSION

CALL TO ORDER

The chairman called the meeting to order at 7:31

Treasurer's Report/Status of Funds

Mr. Bonfils gave a brief review of the Treasurer's Report

Audit Committee Recommendations to award Auditing Contract

Mr. Bonfils discussed the bid process and then shared that the current auditor was the lowest bidder.

Mr. Bonfils made a motion to reappoint the current auditor to a new term.

Douglas Stewart seconded

Unanimously approved

Dominion Energy Presentation

Yolanda Green, Amanda Keyes, and Justin Stadler presented to the Board and took questions.

Ms. Koch asked about clear cutting and if Dominion thought the level of cutting, they did in the first project was mandated.

Mr. Ferguson asked about just trimming. He then asked if Dominion would agree to us hiring an independent group to look at the situation? And added that we'd like to save as many trees as possible.

Mr. Kumar then asked to confirm that there have been no power outages due to vegetation along the W&OD.

Mr. Chandler asked if there have been any fires or trees that have fallen along the W&OD that have caused a power outage?

Mr. Gustafson asked about erosion control measures and about the timber value and asked what becomes of the trees that are cut.

Approval of Minutes

Mr. Baldino made a motion to approve the Meeting Minutes from January 16, 2025

Michael seconded the motion

Mr. Price, Ms. Koch, and Ms. Magennis Wyatt abstained

10 voted to approve

FY2026 Budget Presentation

Patrick Wells

Mr. Wells introduced Sigma Chawdhury to the Board as the new Budget Analyst. He spoke about the proposed budget compared to the 2025 adopted budget. His presentation also covered questions such as “where does the money come from?” and “where does the money go?”. He discussed the FY26 compensation and staffing focus and highlighted that it is the second full year of implementation of the compensation study. Mr. Wells discussed Operating Costs including Maintenance Costs and General Operating Costs. He also discussed revenue: Enterprise Revenue Fund (where most of the revenue comes from), to include User Fee Revenue and Retail Operations Revenue. General Fund Revenue (appropriations from jurisdictions).

Ms. Koch had questions regarding capacity and the finite aspect of it and the ability to generate revenue once you hit maximum capacity. Mr. Gilbert listed possible ways to increase capacity in some areas and Mr. Pauley gave an example about days in the summer season when water parks are quiet and how to increase attendance during those times.

Mr. Chandler asked a question about the fact that there are wilderness parks that don't generate revenue and how that is balanced by the parks that do.

Mr. Gilbert explained that the wilderness parks don't cost much since they don't need as much staffing, etc.

Mr. Nardolilli expressed concern that the Golf forecast might be too optimistic since in 2024 the summer was quite dry with many days of good golf weather.

Mr. Gilbert said that they take weather into consideration since a lot of the park revenue is weather dependent and can be impacted any year.

Mr. Wells wrapped up the presentation by thanking everyone involved – in particular, the field staff because they are so involved with the process.

Admin Items

Annual Adoption of Remote Meeting Policy

Award of Contract – Algonkian Cart Paths Renovation

Award of Contract – Pohick Bay Marina Paving

Mr. Nardolilli made a motion to approve the Admin Items
Ms. Koch seconded
Unanimously approved

Mr. Chandler made a motion to move to closed session
Mr. Nardolilli seconded
Unanimously approved

Mr. Price stepped out

Moved into Closed Session at 8:35
Mr. Chandler left at 9:06 during the closed session

CLOSED SESSION (as allowed by § 2.2-3711)

Legal matters, in accordance with Code of Virginia, Section 2.2-3711-(A)(7)

Real estate matter, in accordance with Code of Virginia, Section 2.2-3711-(A)(3)

Staff were excused. The Executive Director and HR Administrator remained in the room.
Ms. Yolanda Howze joined the meeting.

Personnel matter, in accordance with Code of Virginia, Section 2.2-3711-(A)(1)

Mrj.Chandler.and.Mrj.Ferguson.left.the.meeting.during.closed.session;

Motion by Mr. Nardolilli, seconded by Ms. Koch, to move out of closed session and re-convene in open session. **Unanimously approved.**

Reconvene in open session at 9:59 p.m.

OPEN SESSION:

The Chairman read the following certification:

I certify that, to the best of my knowledge, only public business matters lawfully exempted from the open meeting requirements prescribed by the Virginia Freedom of Information Act and only such matters identified in the motion to convene closed session were heard, discussed or considered by this Board during closed session.

The certification was **unanimously approved** by roll call vote.

ACTIONS FROM CLOSED SESSION:

No actions from closed session.

ADJOURNMENT:

Motion by Mr. Bonfils, seconded by Mr. Stewart, to adjourn the meeting.

VOTE: No opposition or abstention, **unanimously approved**

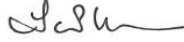
The meeting was adjourned at 10:00 p.m.

NOVA Parks
5400 Ox Road
Fairfax Station, Virginia 22039

May 7, 2025

To: James Bonfils, Treasurer

From: Lauren Weaver, Director of Finance



Subject: Status of Funds

Note: Fund balances as of 4/30/25

NORTHERN VIRGINIA REGIONAL PARK AUTHORITY

NVRPA Checking (Truist Bank)	949,368.51
Credit Card Receivable Account (Truist Bank)	962,336.11
Carlyle House Garden Guild Savings (Burke and Herbert)	1,851.13
Carlyle House Docents Savings (Burke & Herbert)	700.16
FSA - SunTrust - Flexible Spending Account (Truist Bank)	11,092.86
Imprest Fund - Special Event Center at Bull Run (Truist Bank)	19,907.42
Imprest Fund - Meadowlark Light Show (Truist Bank)	4,209.82
Local Government Investment Pool - NVRPA - Capital Fund	18,790,219.94
Charles Schwab- Capital Fund	2,401,495.35
Local Government Investment Pool - Deirdre J. Turnage Endowment Fund	134,806.79
Local Government Investment Pool - Daman Account	233,701.41
Local Government Investment Pool - Designated Set Aside - General Fund	546,423.19
Local Government Investment Pool - Designated Set Aside & Strategic Opportunity - Enterprise Fund	<u>7,552,674.68</u>
Designated Set Aside Sub-Total (RESERVES)	8,099,097.87
LGIP Month of April Effective Yield 4.522%	
TOTAL NVRPA CASH	<u><u>31,608,787.37</u></u>

LOAN PROCEEDS

VRA Resources from Construction Loan for Upton Hill -Par	-
VRA Resources from Construction Loan for Upton Hill -Net Premium	257,624.79
VRA Resources from Construction Loan for Occoquan -Par	-
VRA Resources from Construction Loan for Occoquan -Net Premium	<u>818,731.25</u>
	<u><u>1,076,356.04</u></u>

RESERVE

Local Government Investment Pool - Stribling Debt Service Reserve Fund	145,504.15
	<u><u>145,504.15</u></u>

RESTRICTED FUND

Local Government Investment Pool - Restricted Account	149,627.81
Charles Schwab- Restricted Fund	1,979,693.79
(W&OD Friends portion of this balance = \$46,557.90)	
(Wetlands Mitigation Fund portion of this balance = \$73,457.21)	
TOTAL RESTRICTED FUND CASH	<u><u>2,129,321.60</u></u>

CARLYLE HOUSE FRIENDS

Local Government Investment Pool - Carlyle House Friends	400,478.22
TOTAL CARLYLE FRIENDS CASH	<u><u>400,478.22</u></u>

Since the last Status of Funds report submitted to you on March 12, 2025 the following major deposits were collected:

Checks			
3/10/25	City of Falls Church	FY 25 Appropriation	76,617.16
3/10/25	Level 3 Communications	W&OD Rent	18,468.00
3/20/25	VA Risk Sharing Association	Insurance Proceeds	5,042.10
4/1/25	AT&T	Quarterly Fiberoptics	187,572.32
4/8/25	T Mobile	W&OD Rent	22,561.01
4/8/25	Level 3 Communications	Quarterly Fiberoptics	135,254.72
4/23/25	Fiber Light	Construction deposit	5,000.00

ACH's Received			
3/5/25	Community Foundation	Donation	\$14,500.00
4/1/25	City of Alexandria	4th Quarter Appropriation	\$207,938.46
4/4/25	Eventbrite	Online light show sales- last pmt	\$28,869.78
4/8/25	Community Foundation	Donation	\$6,291.60

TOTAL	\$	708,115.15
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Goals & Retirement Party

Goals:

The Executive Director has a comprehensive list of goals drawn from the Strategic Plan for FY'2025 (July 1, 2024 – June 30, 2025). Paul Gilbert will provide a self-evaluation by the beginning of August. Board Members will score the evaluation during August, and the Board will act on this score at the September Meeting.

Because Paul will serve as a full-time employee for less than half of FY'2026, he will not have set annual goals but will continue to work on strategic plan goals and help with the transition with the new Executive Director.

Retirement Party:

Paul Gilbert's retirement party will be at the River View at Occoquan on Friday, November 21, 2025, for lunch.

The Fairfax County Board of Supervisors will give Paul a congratulatory resolution on Tuesday, November 18, 2025, at 9:30 A.M.

Modification to the goal to create a trash-free Park

Strategic Objective 1.8.3 - Develop and implement a Trash Free Park program that will include a pilot section of the W&OD 2025

The idea of this goal was to eliminate trash cans in a section of the W&OD to encourage the public to carry their trash with them and dispose of it elsewhere. While it is counterintuitive, often fewer trash cans can result in less trash.

Because this insight is counterintuitive, most people believe that more trash cans result in less litter. We have not found an area of the trail that has shown an interest in this experiment.

RECOMMENDATION:

Move that we edit out the Strategic Plan by removing Objective 1.8.3 until there is a time and place where this is welcome in some park or area of a park.

Adoption of the FY 2026 Budget

At the March 2025 Board meeting, the Board received the FY 2026 Proposed Operating Budget for the General and Enterprise Funds. The Budget the Board is being asked to adopt at the May meeting has not changed in total since the March presentation, with a total budget of \$41,143,743. There are a few minor updates since March, and these do not change the total Budget:

- The final retirement contribution rate of 21.22% is slightly lower than the 22.3% rate included in the Proposed Budget. It is recommended to keep the 22.3% rate in the budget.
- The Proposed Budget includes \$65,000 in Compensation Funding Initiatives in the event the minimum wage was increased in the State of Virginia.
- Contingency in the FY 2026 Proposed Budget remains at \$275,000, an increase of \$125,000 from the FY 2025 Budget.

The FY 26 budgets for the Carlyle House Friends Fund and Restricted License Fee Fund are also presented for adoption. Details of these funds are included in the attachments.

RECOMMENDATION: That the Board adopt the FY 2026 Operating Budget in the amount of \$41,143,743, with an Enterprise Fund of \$35,149,351 and General Fund of \$5,994,392.

Additionally, that the Board adopt the FY 26 Budgets as presented for the Restricted License Fee Fund and the Carlyle House Friends Budget.

FRIENDS OF CARLYLE HOUSE

I. OPERATING BUDGET

ACCOUNT DESCRIPTION	ACTUAL FY 2023	ACTUAL FY 2024	ADOPTED FY 2025	ACTUAL FY 2025 JUL-MAR	PROPOSED FY 2026
BEGINNING BALANCE	\$43,380	\$44,340	\$46,200	\$46,438	\$48,817
REVENUES					
Annual Dues	\$2,575	\$3,350	\$10,000	\$2,530	\$10,000
Donations-Operations/Museum Annual Appeal Education			6,500	0	6,500
Programmed Events	0	0	5,000	0	5,000
TOTAL REVENUES	\$2,575	\$3,350	\$21,500	\$2,530	\$21,500
EXPENSES					
Clerical Support	\$0	\$0	\$3,000	\$0	\$3,000
Educational Activities	0	0	5,000	0	5,000
Membership Events	974	134	5,000	0	5,000
Office Supplies/Postage	60	68	500	9	500
Printing/Publications	0	0	2,000	0	2,000
Programs and Promotions	500	1,050	7,000	142	7,000
TOTAL EXPENSES	\$1,534	\$1,252	\$22,500	\$151	\$22,500
ENDING BALANCE	\$44,340	\$46,438	\$45,200	\$48,817	\$47,817

II. COLLECTIONS PURCHASES BUDGET

ACCOUNT DESCRIPTION	ACTUAL FY 2023	ACTUAL FY 2024	ADOPTED FY 2025	ACTUAL FY 2025 JUL-MAR	PROPOSED FY 2026
BEGINNING BALANCE	\$166,503	\$182,673	\$194,183	\$199,435	\$197,182
REVENUES					
Donations - Museum Collection	\$2,815	\$1,680	\$6,500	\$2,405	\$6,500
Interest	13,529	19,869	500	14,338	500
TOTAL REVENUES	\$16,344	\$21,549	\$7,000	\$16,743	\$7,000
EXPENSES					
Museum Collection Purchases	\$0	\$0	\$25,000	17,963	\$25,000
Museum Collection Maintenance	174	4,786	5,000	1,034	5,000
Museum Collection Transfer to Enterprise Fund	0	0	0	0	0
TOTAL EXPENSES	\$174	\$4,786	\$30,000	\$18,997	\$30,000
ENDING BALANCE	\$182,673	\$199,435	\$171,183	\$197,182	\$174,182

III. DOUG THURMAN FUND BUDGET

ACCOUNT DESCRIPTION	ACTUAL FY 2023	ACTUAL FY 2024	ADOPTED FY 2025	ACTUAL FY 2025 JUL-MAR	PROPOSED FY 2026
BEGINNING BALANCE	\$127,897	\$127,297	\$127,298	\$126,697	\$126,182
EXPENSES					
Education	\$600	\$600	\$8,000	515	\$8,000
TOTAL EXPENSES	\$600	\$600	\$8,000	\$515	\$8,000
ENDING BALANCE	\$127,297	\$126,697	\$119,298	\$126,182	\$118,182
ENDING BALANCE-TOTAL ALL	\$354,310	\$372,570	\$335,681	\$372,181	\$340,181

RESTRICTED LICENSE FEE FUND

ACCOUNT DESCRIPTION	ACTUAL FY 2023	ACTUAL FY 2024	ADOPTED FY 2025	JUL-MAR ACTUAL FY 2025	PROPOSED FY 2026
BEGINNING BALANCE*	\$4,129,954	\$4,813,787	\$5,100,000	\$5,607,798	\$5,725,000
REVENUES					
AT&T Fiberoptics License Fee	\$779,243	\$750,290	\$750,289	\$562,717	\$750,289
BRSC Friends - Memberships	4,041	5,426	2,000	4,510	2,000
BRSC-Donations	0	0	0	0	0
Balls Bluff Battlefield Friends	7,025	12,650	6,000	8,010	6,000
OWL Income	11,308	0	0	0	0
Interest	105,006	186,699	40,000	50,163	40,000
Interest-Accrued	3,424	3,102	0	(5,252)	0
Change in Market Value	10,509	53,657	0	27,637	0
Level Three License Fees (Williams)	438,535	658,080	541,019	405,764	541,019
FOWOD Donations	5,030	17,525	0	22,520	0
Interest FOWOD	548	1,518	150	1,633	150
W&OD Friends	20,417	40,460	28,000	19,800	28,000
Wetlands Mitigation Fund Revenue	2,613	3,847	2,000	2,694	2,000
Wetlands Mitigation Fund Interest	0	0	500	0	500
Final Close Adjustments	156,122	142,087	0	0	0
TOTAL REVENUES	\$1,543,820	\$1,875,341	\$1,369,958	\$1,100,197	\$1,369,958
EXPENSES					
BRSC Friends - Misc. Expenses	\$ 4,991	\$ 4,062	\$ 4,000	\$ 2,406	\$ 4,000
Balls Bluff Battlefield Friends	5,328	7,220	4,000	5,235	4,000
OWL Friends - Misc. Expenses	0	71,732	0	0	0
W&OD Bridge Inspections	0	0	0	0	0
W&OD Friends	28,358	29,289	48,500	42,617	48,500
W&OD Major Maintenance	72,198	57,063	100,000	0	100,000
W&OD Professional Services	0	0	25,000	0	25,000
TOTAL EXPENSES	\$110,876	\$169,367	\$181,500	\$50,258	\$181,500
Transfer to Capital Fund	\$ 400,000	\$ 465,723	\$ 400,000	\$0	\$ 400,000
Transfer to Enterprise Fund	327,912	415,000	480,173	360,130	775,130
Transfer to Enterprise Fund for Occoquan Debt Service	0	0	0	0	0
Interest Transfer to General Fund	21,200	31,240	40,000	50,163	40,000
TOTAL TRANSFERS TO OTHER FUNDS	\$749,112	\$911,963	\$920,173	\$410,293	\$1,215,130
TOTAL EXPENDITURES/TRANSFERS	\$859,987	\$1,081,330	\$1,101,673	\$460,551	\$1,396,630
ENDING BALANCE	\$4,813,787	\$5,607,798	\$5,368,285	\$6,247,444	\$5,698,328

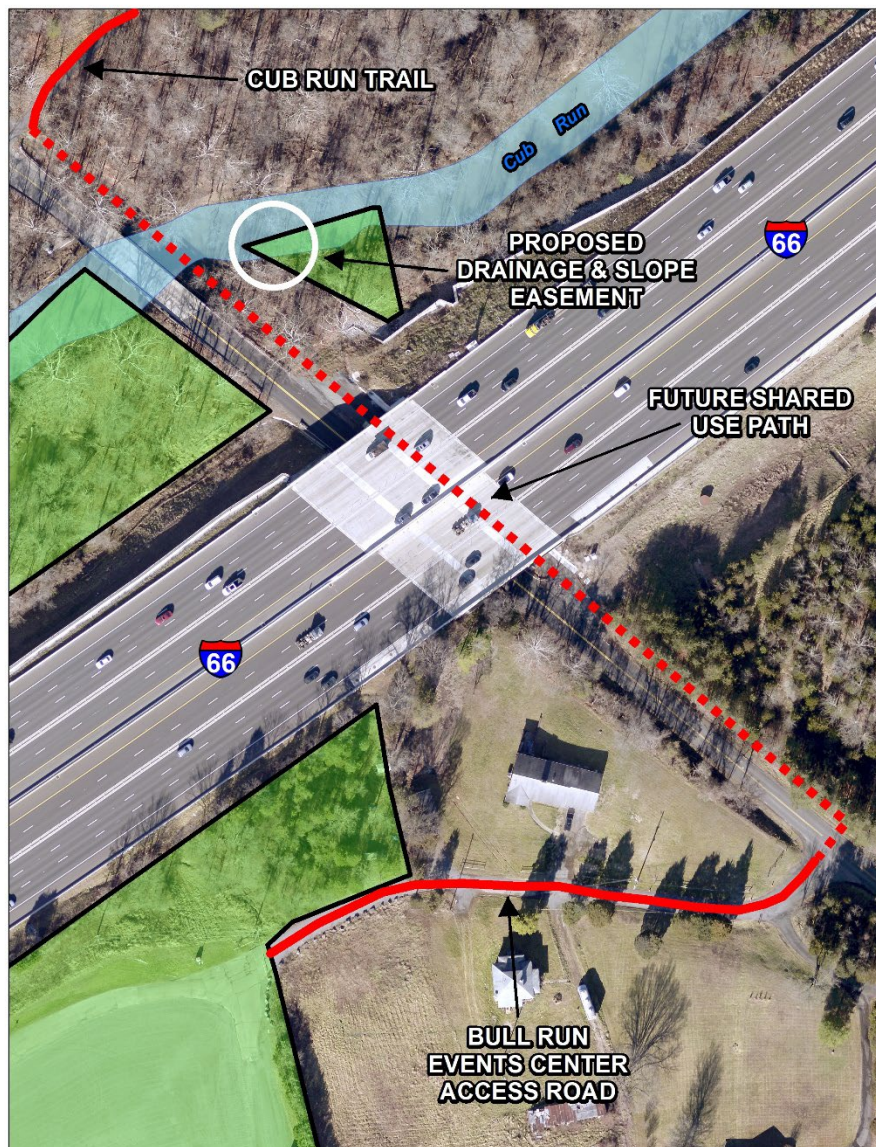
*Beginning balance for FY 25 includes \$125,503 of Friends of the W&OD, \$945 Friends of Bull Run, \$7,263 Friends of BRSC, \$10,071 Friends of Balls Bluff & \$70,763 of Wetland Mitigation funds.

VDOT Slope and Drainage Easement at Bull Run Special Events Center

VDOT is constructing a shared use path along Compton Road which will connect the Cub Run Trail System with the access road to the Bull Run Special Events Center. This path overcomes substantial barriers to connecting the two park systems by creating an expanded underpass under Route 66 and a new pedestrian bridge over the Cub Run. As part of the project, VDOT is requesting a 1,764 sq ft (.04 acres) drainage and slope easement across NOVA Parks property to allow for the discharge of stormwater. This area will be cleared of vegetation and a stabilized channel will be installed with facilities maintained by VDOT. VDOT's original offer for the easement was \$500 which has been negotiated to \$15,000

RECOMMENDATION:

Authorize staff to execute documents necessary to grant a VDOT slope and drainage easement



Bull Run Cell Tower Transfer of Funds to Capital Endowment

Crown Atlantic Company (Crown Castle) acquired a license from NOVA Parks and constructed a cell tower in Bull Run Park in 1997. The current license, which generates \$200,000 annually, expires in July of 2027. In an effort to continue to benefit from this valuable asset, staff began briefing the Board about the impending license expiration several years ago and in July of 2021 received authorization from the Board to negotiate with Crown Castle to extend the use of the facility. Negotiations have concluded and Crown Castle will receive a 50 year easement in exchange for \$3,200,000. It is NOVA Parks policy that large non recurring payments for licenses and other real estate transactions are to be deposited in the Capital Endowment Fund with the Community Foundation. Staff is seeking Board approval to transfer, once received, \$3,200,000 from the Bull Run tower extension to the Capital Endowment Fund.

RECOMMENDATION:

The Executive Director be authorized to transfer the \$3,200,000 received for Crown Castle's continued use of the Bull Run cellular tower to the Capital Endowment Fund

2025

Vegetative Management MOU

Between Dominion Energy and NOVA Parks for the W&OD Park

This document replaces the 2005 Vegetative Management MOU between the parties.

The W&OD Park is owned by NOVA Parks, with Dominion Energy having an easement allowing the management of the Transmission lines in the park.

The goal of this agreement is to allow Dominion Energy to maintain the vegetation on this park in a way that does not pose a threat to the reliability of the electrical grid, and at the same time as called for in the easement to make “reasonable effort to avoid interfering with the use of said lands for public park purposes,” and to “minimize any adverse impact on the public park uses.”

As one of the most popular parks in Virginia, the W&OD Trail needs to be managed in a way that provides high ecological and natural aesthetic value in addition to its recreational uses. The outcomes of this vegetative management agreement are as follows:

- Replant and maintain the roughly four-mile area in the Vienna/Dunn Loring area that was cut in 2024/2025.
- Establish a protocol for future cutting related to transmission line maintenance that involves coordination with NOVA Parks, documentation of impacted areas, and restoration/improvement of native habitat.
- Establish practices to reduce invasive species and enhance native species in the park, with a focus on promoting and supporting pollinators.

1. Memorandum of Understanding

Dominion Energy (“Dominion”) and the Northern Virginia Regional Park Authority (“NOVA Parks”) hereby voluntarily enter into this Memorandum of Understanding (“MOU”) in an effort to establish reasonable guidelines acceptable to both parties for the control and management of vegetation along segments of the W&OD Park (“Trail”), where Dominion transmission lines coexist. This MOU shall not be construed to limit or modify the legal rights of the parties as defined by the deeds and other documents forming the chain of title to the property covered by the MOU. This represents a good faith effort to address an issue of substantial importance to both parties as well as Trail users, landowners adjacent to the Trail and other northern Virginia citizens.

2. Background and Overview

The Trail is a unique and special park that provides recreation and alternative transportation opportunities for millions of people. In 1987, the Trail was designated a National Recreation Trail and given the distinction of being placed on the U.S. Department of the Interior's national register of trails. It is a greenway that supports plants and wildlife and provides a respite to nature lovers. The natural setting of the Trail is an important asset to the citizens of northern Virginia and is a significant cultural and natural resource.

The Trail is owned and managed by NOVA Parks, and is supported by local governments and a large network of community and volunteer organizations and users of the Trail.

Dominion owns transmission lines along portions of the former W&OD Park property. Dominion owns a right-of-way easement along the Trail that, among other things, allows for the removal of trees and brush that represent a danger to its lines.

Dominion has a public service obligation to maintain all of its lines, including in the park, in a safe and reliable manner, so as to minimize the risk of power outages and cascading blackouts.

3. Two Missions

NOVA Parks and Dominion have met to discuss the vegetative management practices utilized on the Trail. Dominion and NOVA Parks voluntarily adopt these vegetation management guidelines in order to allow for both the preservation of the recreational and natural resources of the park and the safe and reliable operation of Dominion's transmission lines. These guidelines will apply to the sections of the Park where Dominion transmission lines coexist at the time of execution of this MOU. Both parties recognize and understand that accomplishing both missions requires compromise. The standard applicable to decisions, actions, and approvals/denials of Dominion and NOVA Parks under this MOU shall be an objective standard of reasonableness.

4. Compliance with Applicable Regulations

While Dominion fully intends to comply with these vegetation management guidelines, the parties acknowledge that various regulatory and other agencies, including the Federal Energy Regulatory Commission ("FERC"), the North American Electric Reliability Council ("NERC"), and the Virginia State Corporation Commission ("SCC"), may have authority over or involvement in matters relating to electric service reliability and/or tree clearing standards affecting transmission lines. Therefore, the operation of these guidelines and Dominion's ability to fully comply with them is subject to current and future regulations and requirements governing service reliability and vegetation control established by such federal and state agencies. Accordingly, Dominion and NOVA Parks retain the right to modify this MOU by mutual agreement. Dominion will provide reasonable notice to NOVA Parks of any proposed or final changes in federal or state regulations or requirements that affect Dominion's ability to fulfill the intent of this MOU. If any such changes affect the operation of this MOU, the parties

agree to work in good faith to modify the MOU as needed. The current standard of NERC FAQ 003 does not require the wholesale cutting of trees in the park, but does require regular maintenance to assure the vegetation does not grow so close to the lines to pose a hazard.

5. Guiding Principles

a.) In general, existing trees, shrubs and other desirable vegetation should be allowed to remain on the Trail unless they pose a threat (see Exhibit D). Where it becomes necessary to remove them for the protection of Dominion's transmission line facilities, Trees and Shrubs should be reestablished to the greatest reasonable extent. Trees, shrubs and other vegetation provide significant benefits for the Trail. Trees, shrubs and other vegetation provide trail users and nearby residents screening, sound buffering, peaceful vistas, seasonal beauty and other positive aesthetic qualities; trees and shrubs improve air quality by removing gaseous air pollution and by intercepting airborne particles such as dust, soot and pollen; trees and shrubs improve water quality by retaining stormwater, filtering runoff, stabilizing soil and thereby decreasing erosion, and shading streams and wetlands; trees and shrubs serve as outdoor air conditioners by providing shade and by cooling the air by the process of transpiration; trees, shrubs and other vegetation provide important wildlife habitat, including vertical structure, movement corridors and food and shelter for animals; and trees and shrubs provide an important opportunity for humans to connect with nature in a wooded environment.

b.) As a general premise from Dominion's perspective, it may be desirable to remove all tall-growing Trees and Shrubs that currently or in the foreseeable future constitute a hazard to its transmission line conductors. The early removal of such Trees and Shrubs might not be an unreasonable goal of Dominion for a typical transmission line right-of-way. However, the parties agree that the Trail is not typical; therefore much discretion should be used in pursuing any such goal. The removal of such trees and shrubs should be phased where appropriate over a time period sufficient to allow desirable lower-growing species that establish naturally or have been planted as replacement trees and shrubs, time to reach maturity. Moreover, even greater discretion should be used in removing large, mature tall-growing trees and shrubs.

c.) As a general premise, it is desirable to prune as opposed to remove any tree or shrub that is a threat to the transmission line conductors. Pruning allows established trees and shrubs to remain on the Trail; and, generally, pruning as opposed to removal is less disruptive visually, environmentally and in terms of the physical work involved. Nevertheless, the parties agree that discretion should be used to ensure that pruning work would effectively reduce the threat to Dominion's facilities to an acceptable level of risk, that the health and vigor of the tree or shrub will not be adversely affected and the resulting shape and appearance of the tree or shrub will be acceptable to NOVA Parks. Where pruning operations are recommended to reduce threat to transmission lines, Dominion should follow ANSI A300 Tree Care Standards as the industry guidelines endorsed by the International Society of Arboriculture (ISA). Pruning operations should promote clearance pruning methods which minimize pruning stress and focus on plant health while obtaining necessary clearance.

6. General Maintenance of Vegetation

It is understood that Dominion Energy has an obligation to provide reliable power to the community and vital part of this mission is to maintain its facilities accordance with NERC FAQ 003 which dictates vegetation management standards within the transmission right-of-way. This is achieved by several levels of maintenance operations discussed in this document including regular General Maintenance. General Maintenance will be defined as activities directed at mitigating a specific threat to Dominion facilities such as removing a dead tree, a leaning tree, overhanging limbs, vegetation surrounding transmission towers and other maintenance activities that do not reach any threshold described in Section 7 of this document. These activities do not trigger any Restoration requirements described in Section 8, Invasive Management described in Section 10 ,Submission requirements described in Section 11, or Outreach Efforts described in Section 14 of this document. However, any General Maintenance that may impact the use of the Park by the public should be coordinated with Park staff in accordance with Section 13.

7 Clearing and Major Maintenance Operations

Clearing and Major Maintenance Operations are distinct from General Maintenance of the transmission right-of-way in that they alter the character of the ecology, aesthetics and user experience of the Park. Characteristics of Clearing and Major Maintenance Operations include but are not limited to:

- The removal of several trees, shrubs and brush in a specific area resulting in readily apparent denuded areas
- Crews working for multiple days in a specific area
- Short closures or detours of the W&OD Trail
- Significant and prolonged presence of heavy equipment in the transmission right-of-way
- A noticeable change in the aesthetic and character of the Park

More specifically these operations are defined as removal of five (5) or more native trees with a DBH of 8” or greater within a 2,500 SF area or ground disturbance greater than 2,500 SF. Disturbance shall be defined as removal of brush or vegetative cover via mechanical or chemical means or impacts to the soils or ground cover resulting from clearing, grading or incidental impacts from heavy equipment. Removing or impacting 2,500’ SF of area that consists of *exclusively* invasive species shall not be regarded as Disturbance for the purposes of this document. Impacts beyond this threshold trigger various Submission (Section 11), Restoration (Section 8), Outreach Efforts (Section 14) and Invasive Management (Section 10) measures discussed throughout this document.

8. Restoration of Areas Impacted by Clearing and Major Maintenance Operations

The removal of native and beneficial plant material and wildlife habitat is an undesirable outcome but is at times necessary due to the coexisting nature of the transmission lines and the Park. The intent of Restoration is to provide an agreeable and flexible way to provide restoration planting to the denuded areas and an overall positive outcome. Restoration shall be defined as the removal of invasive/undesirable vegetation and replacing denuded areas with native vegetation appropriate for the zone and typology of the area. When Restoration is required due to removal of plants or the creation of denuded areas, the solution of where and what plant material that may be appropriate will be subject to the identification of proper zone defined in Section 9 of this document and the replanting of the appropriate typology of vegetation for that Zone in accordance with Exhibit A – Planting Palette (attached). For example, if a large tree is removed within the Meadow zone, it is likely not appropriate to replace it with a tree in the same location. Trees will need to be replaced in areas agreeable within the shrub or canopy zones in the nearest possible location to the area of disturbance. When determining a scope for restoration, values will be established for the removed plants and their required replanting schedules. These values are defined below.

- **Native Trees:** For any tree larger than a 2” DBH, Native trees will be replaced with the appropriate typology at a ratio of 1” DBH = 100 SF of restoration.
- **Large Native Tree:** In addition to the native tree restoration, the removal of a large tree, defined as having a DBH of 8” or greater will require an additional (3) canopy trees at a caliper no less than 3” in size to be planted in the closest restoration area possible to the area of affect.
- **Native Shrubs:** (1) shrub removed = 10 SF of restoration area.
- **Native Perennials and Grasses:** replaced in kind with a 1:1 ratio of meadow seed mix or plugs. Native perennials planted in designed spaces that are disturbed or denuded are to be restored to a similar amount of detail or aesthetic quality.
- **Invasive Plants:** Invasive plants have no inherent value however are required to be replaced with at least meadow typology planting to ensure no denuded area is left unprotected.

POSITIVE OUTCOME GOAL:

While the removal of native and beneficial plant material—valuable both to the trail experience and to wildlife habitat—is not desirable, it is sometimes necessary due to the coexisting nature of the trail and transmission lines. The goal is to provide a flexible and agreeable approach to restoration planting to denuded areas from major maintenance projects that improves the area ecologically as a final result of the major maintenance.

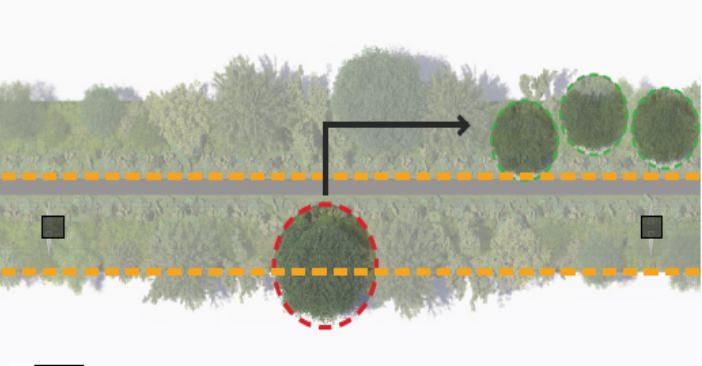
RESTORATION PLANTING:

Restoration planting is defined as the removal of invasive or undesirable vegetation within major maintenance project, or in consequence of removing beneficial planting, that provide replanting of denuded areas with native and beneficial plant species that are appropriate to the zone and landscape typology of the disturbed area. The restoration planting must follow the planting design guidelines in chapter 3 of this document to be accepted.

LOCATION AND EXTENTS OF RESTORATION PLANTING:

Location of restoration planting will depend on the zone and typology where the removal or disturbance occurred. There may be circumstances where the restoration planting area may be required to be larger than the initial disturbance area of the major maintenance. For instance, if a specimen tree is removed within the wire zone, it is likely inappropriate to replace it with another tree in the same spot. Instead, replacement trees should be planted in shrub or tree zones located outside the wire zone, as close as possible to the original area of disturbance.

RELOCATION OF RESTORATION EXAMPLE



BENEFICIAL VEGETATION REMOVAL EVALUATION:

+ **Native Trees:** Any native tree larger than 2" DBH must be replaced based on a ratio of 1" DBH equaling 100 square feet of restoration.



+ **Specimen Trees:** In addition to the standard restoration for native trees, removal of a specimen tree requires the planting of three additional canopy trees, each with a minimum 3" DBH, within the nearest suitable restoration area.



+ **Native Shrubs:** To be replaced at a rate of one shrub per 10 square feet of restoration area.

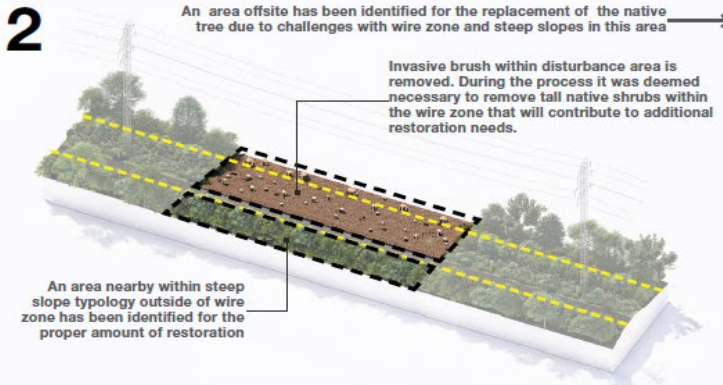
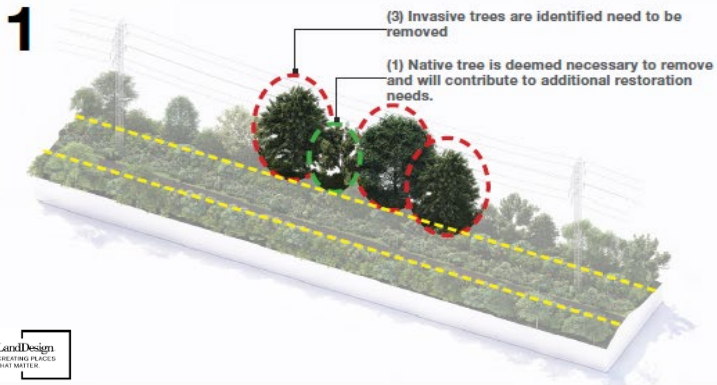


+ **Native Perennials and Grasses:** To be replaced in kind, using a 1:1 ratio with either meadow seed mix or plugs. Where these perennials were part of a designed planting area, restoration should match the original level of detail and aesthetic quality.



+ **Invasive Plants:** Though invasive species have no replacement value, any cleared area must still be replanted, at minimum, with meadow-typology vegetation to ensure the area is not left bare or vulnerable to further degradation.

NARRATIVE: 4 trees in the border zone are identified in field walk to be removed within an invasive brush area.



In order to ensure survival of plantings in restoration areas, Dominion Energy shall follow the below guidelines for new plantings for a period of three years (year of planting plus two additional years):

Establishment Period (first year after installation):

- Plantings shall be inspected twice annually (at the beginning of spring and fall) to assess plant health and determine whether replacement is necessary. If replanting is needed, replacements shall occur during the appropriate planting season.
- Watering of newly installed plantings particularly woody plant material is critical to successful establishment. Plantings shall be monitored regularly for signs of drought stress and watered as needed.
- In meadow or steep slope planting zones, jute biodegradable netting or annual ryegrass should be used to prevent soil erosion and support native seed establishment.
- Routine removal of weeds and other undesirable vegetation may be required to minimize competition with establishing plant material.

Preservation Period (second and third year after installation):

- Meadow zones shall be mowed at the end of each growing season, after grasses and forbs have set seed.
- Trees and shrubs shall be assessed annually following the establishment phase for overall health, pruning requirements, and potential replacement.
- Trees and shrubs shall be pruned to preserve their natural form and structure while promoting strong branching.
- Aggressive or undesirable plant species shall be documented during the annual assessment walk and selectively removed. Removal of undesirable plants shall occur during the growing seasons (spring through fall), preferably before seed set.
- Routine maintenance shall include the removal of dead, damaged, dying, or diseased trees and vegetation, including stump removal.
- Removal of existing trees and vegetation shall require replanting with approved species in accordance with the designated planting zone guidelines in Section 8.
- Plantings shall be monitored for signs of pest or disease pressure. Integrated Pest Management (IPM) techniques shall be employed to mitigate pest and disease spread.
- Environmentally sensitive selective pesticides may be used as needed to maintain insect pest populations at tolerable levels.
- Invasive species removal shall follow the protocols outlined in Section 10.
- All tree pruning shall be performed under the direction of an ISA Certified Arborist, who shall determine appropriate methods and timing.

9. Vegetation Zones within the Park

1) **Canopy Zone** is defined as an area along the outer edges of the Park in which all vegetation including mature trees are permitted to remain so long as they do not pose a clear, articulable, threat to the transmission lines or structures. In the event Dominion determines vegetation in the Canopy Zone is a threat to its facilities, the location, size, and species of the vegetation will be documented in accordance with the tree survey standards and a written justification for removal will be provided to NOVA Parks. All

feasible options to avoid removal, such as pruning will be explored prior to removal of the vegetation. It is recognized that a Canopy Zone may not be appropriate at all locations in the Park due to the location of transmission towers, sag or sway of the transmission lines or location of the Trail. Any replanting to occur in the Canopy Zone shall be of a species identified in Exhibit A – Planting Palette (attached) and planted in accordance with the Exhibit B – Planting Typologies (attached).

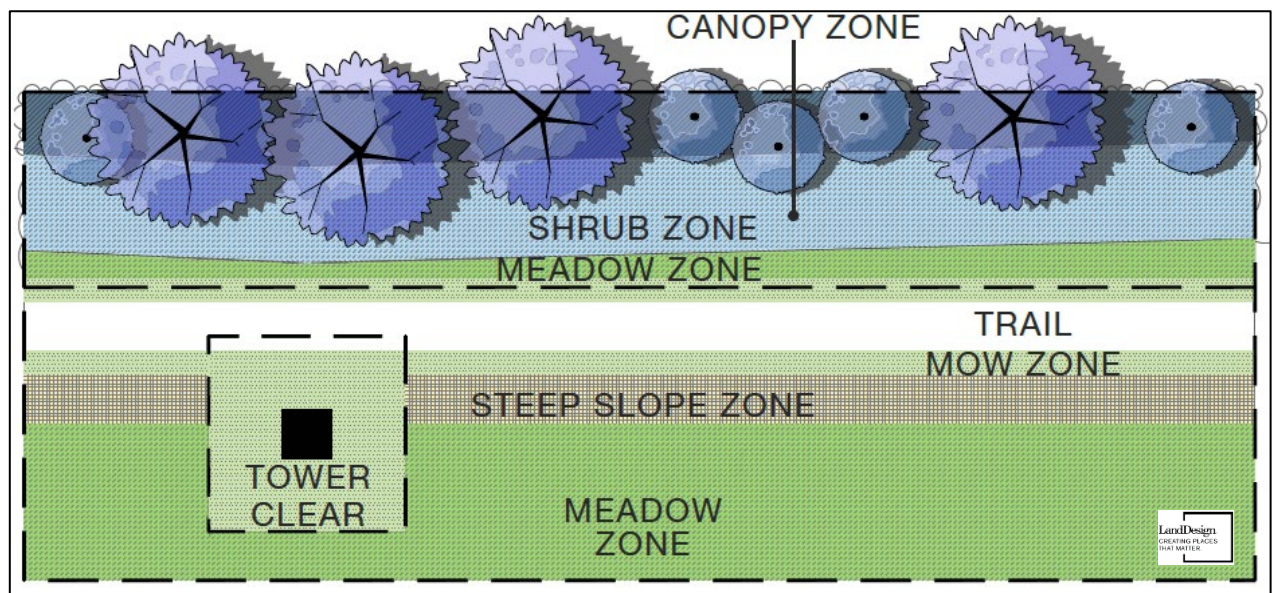
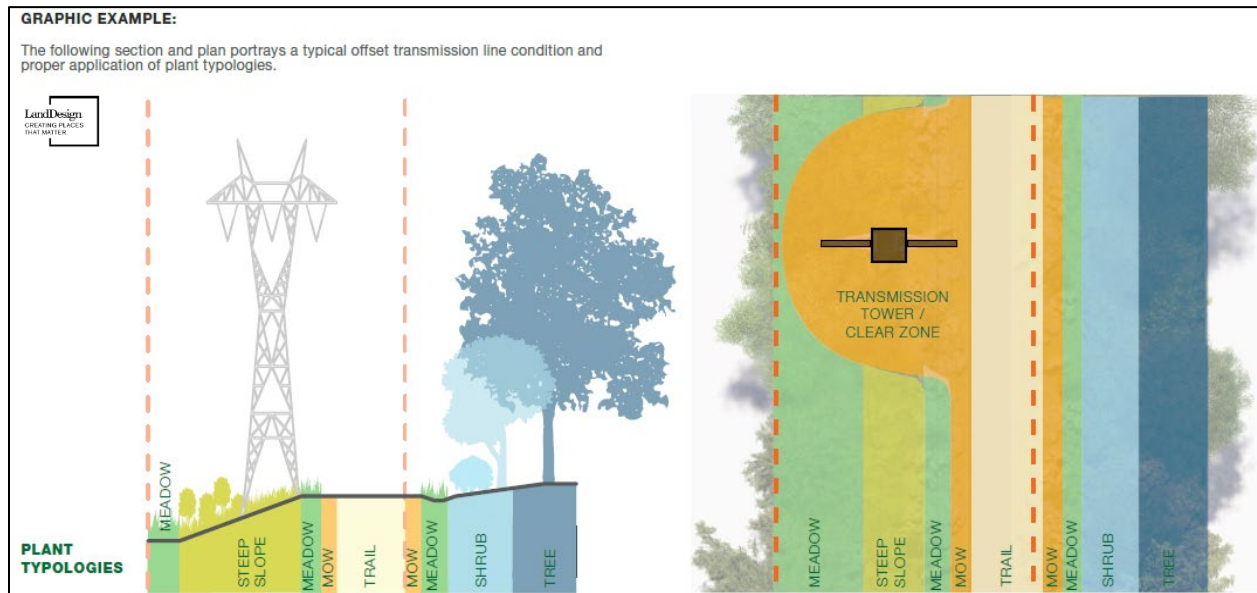
2) **Shrub Zone** is defined as a zone in the interior of the park, generally adjacent to the Meadow Zone which brush, shrubs and low growing trees are permitted to grow so long as they do not pose a clear threat to the transmission lines or structures. It is anticipated that vegetation inconsistent with Shrub Zone or Meadow Zone species contained in Exhibit A – Planting Palette (attached) growing in the Shrub Zone may be cleared by Dominion to ensure the integrity of its facilities. However, prior to any work, a tree survey in accordance with the tree survey standards shall be performed and provided to NOVA Parks. In the event Dominion deems vegetation in the Shrub Zone to be a threat to its facilities, it shall provide written justification to NOVA Parks. Any replanting to occur in the Shrub Zone shall be of a species identified in Exhibit A – Planting Palette (attached) and planted at a schedule in accordance with Exhibit B – Planting Typologies (attached)

3) **Meadow Zone** is defined as a zone below the transmission lines and around the transmission towers which will be generally absent of trees and shrubs and in which native grasses, perennials, pollinators, and wildflowers will be maintained. The Meadow Zone designation does not completely preclude the preservation or planting of low growing species, however the locations of this vegetation will be mutually agreed between Dominion and NOVA Parks. While it is understood that the Meadow Zone will be absent of significant trees or shrubs, trees or shrubs that are to be removed should be recorded by a tree survey in accordance with the tree survey standards so that replacement replanting quantities can be calculated. Any replanting to occur in the Shrub Zone shall be of a species identified in Exhibit A – Planting Palette (attached) and planted at a schedule in accordance with Exhibit B – Planting Typologies (attached)

4) **Slope Zone** is defined as a portion of the Park in which a slope of 25% or greater is present. Existing vegetation that is permitted to remain in a Slope Zone will be determined by its proximity to transmission lines or towers. Any replanting to occur in the Slope Zone shall be of a species identified in Exhibit A – Planting Palette (attached) and planted at a schedule in accordance with Exhibit B – Planting Typologies (attached) These species generally grow to a height consistent with Meadow Zone plantings but are selected for their ability to provide slope stabilization.

5) **Turf Zone** (mowed area) is defined as an area 5' wide on each side of the Trail, 20' around a transmission tower or other structure, and present at other locations such

town greens, common areas and near road intersections where turf grass is maintained. These areas are planted with commonly available turf grasses.



10. Invasive Plant Management in Restoration Areas

Invasive plant species are defined as a non-native plant species that are known to spread aggressively, monopolizing resources and resulting in a monoculture which is detrimental to the environment and park user experience. Invasive plants include those species discussed in Exhibit C – Vegetation Management (attached) or contained in the Virginia Department of

Conservation and Recreation's Virginia Invasive Species Plant List. In any area in the Park that Dominion performs clearing or major maintenance and/or restoration plantings Dominion will remove all invasive species within the limits of the work at a minimum or other logical boundaries agreed to by Dominion and NOVA Parks. After removal of the invasive species, Dominion will, for a period of two years, inspect the area at the beginning of each spring and fall (for a total of four inspections) and remove all invasive species that have regrown. Thereafter, Dominion shall inspect the area and remove all invasive species in these areas as part of its standard maintenance cycle which will occur every other year. The removal of invasive species shall not impact native species in any substantial way. Invasive species removal shall follow the protocols outlined in Exhibit C – Vegetation Management (attached) which dictates the procedure, timing, type of removal (mechanical vs herbicide), and monitoring of invasive removal. Additionally, Invasive Trees, including bamboo, are to have the entire root system removed and grubbed to ensure no invasives are allowed to recover within the disturbed area.

11. Submission Requirements for Clearing and Major Maintenance Operations

Given the substantial impact Clearing and Major Maintenance Operations has on the Park, W&OD Trail Operations and the Park neighbors, Dominion will submit adequate documentation to NOVA Parks for review and comment. This shared information helps to ensure that the standards of the MOU are followed during all phases of clearing and restoration. NOVA Parks shall be provided with these plats or plans no less than 60 days prior to the planned commencement of clearing work. The following information shall be provided in all instances of clearing or major maintenance activities on NOVA Parks land area.

- 1) A survey plat or set of plans clearly depicting the boundaries of areas to be cleared which shall include the NOVA Parks boundary as well as the Dominion easement boundary. This plan must be drawn to scale and be legible.
- 2) The location of the proposed clearing work should be clearly depicted on a vicinity map that should include information regarding the nearest mile marker(s) for the W&OD Trail.
- 3) Clearing limits should be clearly depicted on the plat or plans.
- 4) A tree survey shall be included as part of the survey plans which includes information on species, location, DBH, canopy, health and any other pertinent information regarding the trees or other vegetation to be removed or retained. Invasive species should be identified as either individual trunks or areas of ground cover. Canopy coverage shall be calculated by multiplying the DBH by 12.
- 5) Topographic information shall be provided as part of the information included on the plat or plans submitted to NOVA Parks. For the purpose of this standard, a 2-foot contour interval shall be depicted on plans and delineate areas of a slope greater than 25%.

- 6) Resource Protection Areas, perennial stream channels, 100-year floodplains and areas of known wetlands shall be clearly noted on these plans. These areas should be designated for riparian plantings, where conditions are appropriate.
- 7) Soils data should be included in order to determine appropriate species for replanting/restoration within the survey area. Data should be acquired through analysis of soil samples taken from the impacted site. This soils information will also be essential in determining potential requirements for any Erosion and Sediment(E & S) control measures which may be required in some circumstances where steep slopes, highly erodible soils or other conditions exist that might promote erosion within a given area.
- 8) Cultural Resources which are known to exist within the area of the proposed work should be identified and noted on the plats or plans. The State of Virginia provide information on cultural resources that is available via The Virginia Cultural Resources Information System (VCRIS).

12. Erosion and Sediment Control

While the clearing work typically undertaken by Dominion rarely involves grading, it may result in extended periods of denuded land areas, which can increase the potential for erosion.

Denuding areas for any period of time can trigger erosion. There are a number of factors that can contribute to erosion. Those factors include soil characteristics, vegetative cover, topography and climate. As with most railroad corridors, the W&OD Trail is generally set upon a rail bed that relied on cuts and fills in order to maintain a grade of no more than 5%. This results in areas of the trail where embankments rise sharply on both side of the trail, to segment where the trail slopes steeply on either side of the fill that creates the course of the trail that once supported the rail line. In any of these settings, erosion can be triggered by activities that result in the removal of vegetative cover surrounding the trail.

E & S controls may be required as noted above in those areas where denuding an area could contribute to potential erosion. Erosion not only contributes to water quality concerns in some area, but could also be detrimental to slope stability which could adversely impact park features.

In those areas where slope and/or soil conditions may dictate, erosion control measures such as silt fencing or super silt fencing, shall be incorporated into the plans for consideration. Erosion and sediment control measures should be installed whenever bare earth is exposed within 100 feet of a stream, wetland or riparian buffer zones. Additional measures may be required subject to site conditions and the recommendations of the Virginia Erosion and Sediment Control Handbook.

13. NOVA Parks Coordination

As part of the information provided by Dominion Energy, NOVA Parks will also require details regarding points of ingress/egress to the Park for clearing or major maintenance activities. This should include the following:

- 1) The location(s) of points of access. It should also note if it will be via an existing roadway, trail connection, across unpaved areas or other types of access.
- 2) The type and size of vehicles to be used. Larger vehicles may require the application of mats to ensure that the trail surfaces and adjacent areas are not subjected to damage during any work activities within the Trail area.
- 3) A Maintenance of Traffic Plan (MOT) for the Trail. To ensure that the Trail users remain safe during any periods of work, Dominion Energy will provide an MOT to depict safety signage and locations, flaggers (where applicable), warning signs and barriers, and information regarding the anticipated period of Trail disruption for any given closure or partial closure. In those instances where a detour may be required, that information shall be provided to NOVA Parks no less than 14 business days prior to the commencement of work within a given area.

14. Outreach Efforts

- 1) In the event a disturbance area is greater than a half acre (21,782 SF) or the number trees 8" DBH exceeds twenty (20) within a half acre area, Dominion will give 30 days' notice, by US Mail, to all property owners who share a common boundary with the Park adjacent to a work area. Further, Dominion will post this area 30 days in advance of the work in the Park, by a means, and with language, mutually agreeable to NOVA Parks and Dominion, making the Trail using public aware future vegetation management. Dominion shall submit draft communications to NOVA Park for review and approval prior to distribution.
- 2) In the event a disturbance area is greater than a half acre (21,782 SF) or the number trees 8" DBH exceeds twenty (20) within a half acre area, Dominion will give 30 days' notice, by US Mail, to the Chief Executive of any NOVA Parks jurisdiction member in which the work is taking place. This notice shall state the location of the work, the disturbance area, and applicable information from the required to survey describing vegetation to be removed. Dominion shall submit draft communications to NOVA Park for review and approval prior to distribution.

15. General Provisions for Working in the Park

Driving on the Trail

- Use the gravel horse trail rather than paved trail whenever possible.
- Speed should be 15 miles per hour or less.
- Always yield to the people on the trail. Pull off to the side and stop when someone comes towards you. If passing someone from behind, wait until they see you before passing them.
- Don't cross a street while a trail user on either side is waiting to cross.
- Dominion Energy and its contractors do not have access rights on any of the bridges on the W&OD Trail.
- All vehicles should bear the name of the company.

Working in the Park

- Work areas must have "Work Ahead" or similar signs posted at least 200 feet in advance of the work area. The signs should not hang into the area of the trail but should be completely on the shoulder. The signs should be no more than ½ mile from the work area.
- Place cones around each end of any equipment blocking the trail.
- Always leave at least half of the trail open and clear so trail users can safely pass through the work area. Do not place trucks, cut trees, equipment or other materials in the open area.
- If cutting and chipping leave wood chips on the paved trail surface, the trail should be blown or swept regularly.
- According to Dominion Energy's easement, all wood chips, limbs and logs must be removed from park property with NOVA Parks' approval.
- When leaving equipment on the property at the end of the workday, keep five feet away from the edge of either trail. Vehicles should be locked and keys removed from equipment.
- Remove or drop signs at the end of the workday.

EXHIBIT A

PLANTING PALETTE (TREES)

		Characteristics				Planting Zones				Planting Season
BOTANICAL NAME	COMMON NAME	Mature Size (H X W)	Evergreen/Deciduous	Native	Upland/Riparian	Canopy Zone	Shrub Zone	Meadow Zone	Steep Slope Zone	Spring/Summer/Fall/Winter
SMALL MATURING (≤20')										
<i>Amelanchier arborea</i>	downy serviceberry	15-20' HW	D	•	U	•	•			F,W
<i>Aesculus pavia</i>	red buckeye	10-20' HW	D	•	U	•	•			F,W
<i>Amelanchier canadensis</i>	serviceberry	15-20' HW	D	•	U	•	•			F,W
<i>Asimina triloba</i>	pawpaw	15-20' HW	D	•	R	•	•			F,W
<i>Cercis canadensis</i>	redbud	20' HW	D	•	U	•	•			F,W
<i>Cornus florida</i>	flowering dogwood	15-20' HW	D	•	U	•	•			F,W
<i>Chionanthus virginicus</i>	fringetree	10-20' HW	D	•	U	•	•			F,W
<i>Hamamelis virginiana</i>	witchhazel	15-20' HW	D	•	U,R	•	•			F,W
MEDIUM MATURING (21-40')										
<i>Carpinus caroliniana</i>	hornbeam	35' X 20'	D	•	U,R	•				F,W
<i>Cladrastis kentukea</i>	yellowwood	30-40'	D	•	U	•				F,W
<i>Crataegus virdis</i>	green hawthorn	20-35' HW	D	•	R	•				F,W
<i>Ilex opaca</i>	American holly	15-30' X 10-20'	E	•	U	•				F,W
<i>Magnolia virginiana</i>	sweetbay magnolia	35' X 30'	E	•	U,R	•				F,W
<i>Ostrya virginiana</i>	hop hornbeam	25-40' X 20-30'	D	•	U	•				F,W
<i>Oxydendrum arboreum</i>	sourwood	20-40' X 10-25'	D	•	U	•				F,W
<i>Pinus virginiana</i>	Virginia pine	35' X 10-30'	E	•	U	•				F,W
<i>Prunus americana</i>	American wild plum	15-25'	D	•	U	•				F,W
<i>Rhus typhina</i>	staghorn sumac	15-25' X 20-30'	D	•	U	•				F,W
LARGE MATURING (41'+)										
<i>Acer rubrum</i>	red maple	40-70' X 30-50'	D	•	U	•				F,W
<i>Betula nigra</i>	river birch	60- X 40'	D	•	R	•				F,W
<i>Carya ovata</i>	shagbark hickory	70-90' X 50-70'	D	•	U,R	•				F,W
<i>Diospyros virginiana</i>	persimmon	30-80' X 20-35'	D	•	U	•				F,W
<i>Fagus grandifolia</i>	American beech	50-80' X 40-80'	D	•	U	•				F,W
<i>Gymnocladus dioicius</i>	Kentucky coffee tree	60-80' X 40-55'	D	•	U	•				F,W
<i>Juniperus virginiana</i>	eastern red cedar	30-65' X 10-35'	E	•	U	•				F,W
<i>Liquidambar styraciflua</i>	sweetgum	60-80' X 40-60'	D	•	U,R	•				F,W
<i>Liriodendron tulipifera</i>	tulip poplar	60-80' X 40-60'	D	•	U,R	•				F,W
<i>Nyssa sylvatica</i>	tupelo blackgum	50' X 25'	D	•	U,R	•				F,W
<i>Pinus echinata</i>	shortleaf pine	50-60' X 20-35'	E	•	U	•				F,W
<i>Pinus taeda</i>	loblolly pine	50-60' X 20-35'	E	•	U	•				F,W
<i>Quercus bicolor</i>	swamp white oak	60' X 50'	D	•	U,R	•				F,W
<i>Quercus coccinea</i>	scarlett oak	70' X 40-50'	D	•	U	•				F,W
<i>Quercus lyrata</i>	overcup oak	60' HW	D	•	U,R	•				F,W
<i>Quercus falcata</i>	southern red oak	50-80' X 40-50'	D	•	U	•				F,W
<i>Quercus nuttallii</i>	nuttall oak	60' X 40'	D	•	U	•				F,W
<i>Quercus phellos</i>	willow oak	40-75' X 25-50'	D	•	U,R	•				F,W
<i>Quercus shumardii</i>	shumard oak	50' X 40'	D	•	U	•				F,W
<i>Sassafra albidum</i>	sassafrass	30-60' X 25-40'	D	•	U	•				F,W
<i>Taxodium distichum</i>	bald cypress	80' X 20'	D	•	U,R	•				F,W
<i>Tilia americana</i>	basswood	60-80' X 30-60'	D	•	U	•				F,W
<i>Ulmus americana</i>	american elm	65-70' X 50'	D	•	U	•				F,W

EXHIBIT A

PLANTING PALETTE (SHRUBS)

BOTANICAL NAME	COMMON NAME	Characteristics				Planting Zones				Planting Season
		Mature Size (H X W)	Evergreen/Deciduous	Native	Upland/Riparian	Canopy Zone	Shrub Zone	Meadow Zone	Steep Slope Zone	Spring/Summer/Fall/Winter
<i>Alnus serrulata</i>	smooth alder	10-20' X 8-15'	D	•	R	•	•			F,W
<i>Aronia arbutifolia</i>	red chokeberry	6-12' X 3-6'	D	•	U		•			F,W
<i>Aronia melanocarpa</i>	chokeberry	3-5' HW	D	•	U		•			F,W
<i>Calycanthus floridus</i>	sweetshrub	6-10' X 10-12'	D	•	U,R	•	•			F,W
<i>Cephalanthus occidentalis</i>	buttonbush	5-12' X 4-8'	D	•	R		•			F,W
<i>Clethra alnifolia</i>	sweet pepper bush	3-8' X 4-6'	D	•	U,R		•			F,W
<i>Cornus amomum</i>	silky dogwood	6-12' HW	D	•	U,R	•	•			F,W
<i>Cornus flaviramea</i>	yellow twig dogwood	5-6' HW	D	•	U,R		•			F,W
<i>Cornus racemosa</i>	gray dogwood	10-15' HW	D	•	U	•	•			F,W
<i>Cornus sericea</i>	red twig dogwood	6-9' X 7-10'	D	•	U,R		•			F,W
<i>Cyrilla racemiflora</i>	titi	15-20' HW	E	•	R	•	•			F,W
<i>Euonymus americanus</i>	strawberry bush	4-6' HW	D	•	U,R		•			F,W
<i>Hydrangea arborescens</i>	smooth hydrangea	3-5' HW	D	•	U,R		•			F,W
<i>Hydrangea quercifolia</i>	oakleaf hydrangea	6-8' HW	D	•	U		•			F,W
<i>Hypericum prolificum</i>	St. Johnswort	1-4' HW	D	•	U		•			F,W
<i>Ilex glabra</i>	inkberry holly	5-8' HW	E	•	U, R		•			F,W
<i>Ilex verticillata</i>	winterberry holly	3-15' X 3-12'	D	•	U,R		•			F,W
<i>Ilex vomitoria</i>	yaupon holly	10-20' X 8-12'	E	•	U	•	•			F,W
<i>Itea virginica</i>	Virginia sweetspire	4-8' X 3-6'	D	•	U,R		•			F,W
<i>Leucothoe racemosa</i>	sweetbells	4-6' HW	E	•	U		•			F,W
<i>Lindera benzoin</i>	spicebush	6-12' HW	D	•	U		•			F,W
<i>Myrica cerifera</i>	southern wax myrtle	20-25' X 8-10'	E	•	U	•	•			F,W
<i>Myrica pensylvanica</i>	northern bayberry	4-10' HW	E	•	U		•			F,W
<i>Physocarpus opulifolius</i>	ninebark	5-8' X 4-6'	D	•	U		•			F,W
<i>Rhododendron periclymenoides</i>	pinxterbloom azalea	3-6' X 4-7'	D	•	U		•			F,W
<i>Rhododendron viscosum</i>	swamp azalea	3-5' HW	D	•	R		•			F,W
<i>Salix discolor</i>	pussy willow	6-15' X 4-12'	D	•	R	•	•			F,W
<i>Sambucus canadensis</i>	common elderberry	5-12' X 6-10'	D	•	U		•			F,W
<i>Spiraea alba</i>	meadowsweet	3-4' HW	D	•	U,R		•			F,W
<i>Vaccinium corymbosum</i>	highbush blueberry	6-12' X 6-10'	D	•	U,R		•			F,W
<i>Viburnum dentatum</i>	arrowwood	6-10' HW	D	•	U,R		•			F,W
<i>Viburnum nudum</i>	witherod (winterthur)	5-12' HW	D	•	U,R		•			F,W
<i>Viburnum prunifolium</i>	black-haw viburnum	12-15' HW	D	•	U	•	•			F,W
<i>Viburnum trilobum</i>	cranberry viburnum	8-12' HW	D	•	R		•			F,W

EXHIBIT A

PLANTING PALETTE (PERENNIALS AND GRASSES)

BOTANICAL NAME	COMMON NAME	Characteristics				Planting Zones				Planting Season
		Mature Size (H X W)	Evergreen/Deciduous	Native	Upland/Riparian	Canopy Zone	Shrub Zone	Meadow Zone	Steep Slope Zone	
<i>Asclepias syriaca</i>	common milkweed	3-5' X 2-3'	D	•	U			•	•	Sp,Su,F
<i>Asclepias tuberosa</i>	butterfly weed	1-2' X 1-1.5'	D	•	U			•	•	Sp,Su,F
<i>Baptisia australis</i>	blue wild indigo	3-4' X 2-4'	D	•	U			•		Sp,Su,F
<i>Baptisia tinctoria</i>	yellow wild-indigo	2-3' HW	D	•	U			•		Sp,Su,F
<i>Bidens cernua</i>	nodding beggar-ticks	1-3' HW	D	•	U			•		Sp,Su,F
<i>Carex cherokeensis</i>	Cherokee sedge	2-2.5' HW	E	•	U			•	•	Sp,Su,F
<i>Carex crinita</i>	long hair sedge	1-3' x 1-2'	E	•	R			•		Sp,Su,F
<i>Carex pennsylvanica</i>	Pennsylvania sedge	.5-1' HW	E	•	U			•		Sp,Su,F
<i>Chasmanthium latifolium</i>	river oats	2-5' X 1-2.5'	D	•	U,R			•	•	Sp,Su,F
<i>Chrysopsis mariana</i>	Maryland golden aster	1-2.5' X 1-2'	D	•	U			•		Sp,Su,F
<i>Clitoria mariana</i>	Maryland butterfly pea	3' (vine)	D	•	U			•	•	Sp,Su,F
<i>Conoclinium coelestinum</i>	blue mistflower	3-4' X 1-3'	D	•	R			•		Sp,Su,F
<i>Coreopsis tripteris</i>	tall coreopsis	2-8' HW	D	•	U			•	•	Sp,Su,F
<i>Coreopsis verticillata</i>	threadleaf coreopsis	2.5-3' X 1.5-2'	D	•	U			•	•	Sp,Su,F
<i>Danthonia sericea</i>	silky oatgrass	2-4.5' HW	D	•	U			•	•	Sp,Su,F
<i>Danthonia spicata</i>	poverty oatgrass	1' HW	D	•	U			•	•	Sp,Su,F
<i>Dichanthelium clandestinum</i>	deer-tongue	2-4.5' X 2'	D	•	U,R			•		Sp,Su,F
<i>Dichanthelium commutatum</i>	variable panicgrass	2-3' HW	D	•	U			•	•	Sp,Su,F
<i>Doellingeria umbellata</i>	flat-top white aster	3-5' X 1-2'	D	•	U			•	•	Sp,Su,F
<i>Dulichium arundinaceum</i>	three-way sedge	1-3' x 1-2'	D	•	R			•		Sp,Su,F
<i>Elymus hystrix</i>	bottlebrush grass	2.5-3' X 1-1.5'	D	•	U			•	•	Sp,Su,F
<i>Eupatorium perfoliatum</i>	boneset	4-6' X 3-4'	D	•	R			•		Sp,Su,F
<i>Eutrochium fistulosum</i>	hollow Joe-pye weed	4-7' X 2-4'	D	•	U,R			•		Sp,Su,F
<i>Helenium autumnale</i>	sneezeweed	3-5' X 2-3'	D	•	R			•		Sp,Su,F
<i>Helianthus angustifolius</i>	narrow-leaf sunflower	5-8' X 2-4'		•	R			•		Sp,Su,F
<i>Helianthus decapetalus</i>	ten-petaled sunflower	2-6' X 1-2'	D	•	U			•	•	Sp,Su,F
<i>Helianthus divaricatus</i>	woodland sunflower	2-6' X 1-3'	D	•	U			•		Sp,Su,F
<i>Helopsis helianthoides</i>	oxeye sunflower	3-6' X 2-4'	D	•	U			•	•	Sp,Su,F
<i>Hibiscus moscheutos</i>	Eastern rosemallow	3-7' X 2-4'	D	•	R			•		Sp,Su,F
<i>Iris cristata</i>	dwarf crested iris	.5-1' HW	D	•	U,R			•		Sp,Su,F
<i>Iris virginica</i>	Virginia blue flag	1-3' HW	D	•	R			•		Sp,Su,F
<i>Juncus canadensis</i>	Canada rush	2' HW	D	•	R			•		Sp,Su,F
<i>Juncus effusus</i>	common rush	2-4'	D	•	R			•		Sp,Su,F
<i>Lespedeza capitata</i>	round-head bush clover	2-4' X 1-2'	D	•	U			•	•	Sp,Su,F
<i>Liatris pilosa var. pilosa</i>	grass-leaf blazing star	1-3' X 1-2'	D	•	U			•	•	Sp,Su,F
<i>Liatris squarrosa</i>	plains blazing star	1-3' X .5-1'	D	•	U			•	•	Sp,Su,F
<i>Lilium canadense</i>	Canada lily	3-8' X 1.5'	D	•	R			•		Sp,Su,F
<i>Lobelia cardinalis</i>	cardinal flower	2-4' X 1-2'	D	•	R			•		Sp,Su,F
<i>Lupinus perennis</i>	sundial lupine	1-2.5' X .5-1'	D	•	U			•		Sp,Su,F
<i>Mimulus ringens</i>	monkeyflower	1-3' X .5-1'	D	•	R			•		Sp,Su,F
<i>Monarda fistulosa</i>	wild bergamont	2-4' X 2-3'	D	•	U			•	•	Sp,Su,F
<i>Monarda punctata</i>	horse-mint	1.5-2' X 1'	D	•	U			•	•	Sp,Su,F
<i>Oenothera fruticosa</i>	sundrops	1.5' X 1-3'	D	•	U			•		Sp,Su,F
<i>Panicum virgatum</i>	switch grass	3-7' X 2-4'	D	•	U,R			•	•	Sp,Su,F
<i>Penstemon canescens</i>	gray beardtongue	1-3' X 1.5'	D	•	U			•		Sp,Su,F
<i>Penstemon digitalis</i>	smooth beardtongue	3-5' X 1.5-2'	D	•	U			•	•	Sp,Su,F
<i>Phlox divaricata</i>	woodland phlox	.75-1' HW	D	•	U			•		Sp,Su,F
<i>Phlox paniculata</i>	summer phlox	2-4' X 2-3'	D	•	U			•		Sp,Su,F
<i>Phlox subulata</i>	moss phlox	.5' X 1-1.5'	E	•	U			•	•	Sp,Su,F
<i>Physostegia virginiana</i>	obedient plant	3-4' X 2-3'	D	•	U			•		Sp,Su,F
<i>Pycnanthemum incanum</i>	hoary mountain mint	2-3' X 3-4'	D	•	U			•	•	Sp,Su,F
<i>Pycnanthemum tenuifolium</i>	narrow-leaved mountain mint	2-3' HW	D	•	U			•	•	Sp,Su,F

EXHIBIT A

PLANTING PALETTE (PERENNIALS AND GRASSES)

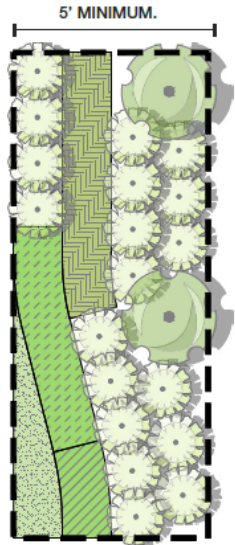
BOTANICAL NAME	COMMON NAME	Characteristics				Planting Zones				Planting Season
		Mature Size (H X W)	Evergreen/Deciduous	Native	Upland/Riparian	Canopy Zone	Shrub Zone	Meadow Zone	Steep Slope Zone	Spring/Summer/Fall/Winter
<i>Rhexia virginica</i>	Virginia meadow-beauty	2' HW	D	•	U			•		Sp,Su,F
<i>Rudbeckia fulgida</i>	three-lobed coneflower	2-3' X 2-2.5'	D	•	U			•	•	Sp,Su,F
<i>Salvia lyrata</i>	lyre-leaf sage	1-2' HW	D	•	U			•		Sp,Su,F
<i>Saururus cernuus</i>	lizard's tail	1-2'	D	•	R			•		Sp,Su,F
<i>Schizachyrium scoparium</i>	little bluestem	2-4' X 1.5-2'	D	•	U			•	•	Sp,Su,F
<i>Scripus cyperinus</i>	woolgrass bulrush	3-5' X 2-4'	D	•	R			•		Sp,Su,F
<i>Silene virginica</i>	fire pink	2-3' X 2'	D	•	U			•		Sp,Su,F
<i>Silphium perfoliatum</i>	cup plant	4-8' X 1-3'	D	•	R			•		Sp,Su,F
<i>Solidago caesia</i>	bluestem goldenrod	1.5-3' HW	D	•	U			•	•	Sp,Su,F
<i>Solidago odora</i>	sweet goldenrod	2-4' X 1-2'	D	•	U			•	•	Sp,Su,F
<i>Solidago pinetorum</i>	pinewoods goldenrod	3.5' X 1.5'	D	•	U			•	•	Sp,Su,F
<i>Solidago puberula</i>	downy goldenrod	3.5' X 2'	D	•	U			•	•	Sp,Su,F
<i>Solidago rugosa</i>	rough-stemmed goldenrod	3-5' X 1-2.5'	D	•	U			•	•	Sp,Su,F
<i>Sorghastrum nutans</i>	Indian grass	3-5' X 1-2'	D	•	U			•		Sp,Su,F
<i>Sparganium americanum</i>	American bur-reed	1-3' HW	D	•	R			•		Sp,Su,F
<i>Symphyotrichum pilosum</i>	frost aster	2-4' HW	D	•	U			•	•	Sp,Su,F
<i>Symphyotrichum concolor</i>	Eastern silvery aster	1.5-3' X 1'	D	•	U			•	•	Sp,Su,F
<i>Symphyotrichum cordifolium</i>	heart-leaved aster	2-5' X 1.5-2'	D	•	U			•	•	Sp,Su,F
<i>Tradescantia virginiana</i>	Virginia spiderwort	1.5-3' X 1-1.5'	D	•	U			•	•	Sp,Su,F
<i>Tridens flavus</i>	redtop	3-5' X 1-3'	D	•	U			•		Sp,Su,F
<i>Tripsacum dactyloides</i>	gama grass	4-8' X 4-6'	D	•	R			•		Sp,Su,F
<i>Verbena hastata</i>	blue vervain	2-6' X 1-2.5'	D	•	R			•		Sp,Su,F
<i>Vernonia noveboracensis</i>	New York ironweed	4-6' X 3-4'	D	•	R			•		Sp,Su,F
<i>Viloa cucullata</i>	marsh blue violet	.5-1' HW	D	•	R			•		Sp,Su,F
<i>Viola pedata</i>	bird's foot violet	.5' HW	D	•	R			•		Sp,Su,F
<i>Viola pubescens</i>	yellow violet	1' HW	D	•	R			•		Sp,Su,F

EXHIBIT B

PLANTING TYPOLOGIES - MEADOW

LandDesign
CREATING PLACES
THAT MATTER.

PLAN VIEW:



DESCRIPTION:

- + Location: Allowed in both border and wire zone. Primary typology for wire zone plantings. Encouraged to be used adjacent to trail given its compatibility to being mowed.
- + Use: To be used where height is a restriction within the restoration area. Provide wildlife and aesthetic benefit to the trail. No plant to exceed 15' in height.
- + Plant Species: Primarily grasses or perennials
- + Plant Characteristics: Provides holistic landscape for low-growing plants to thrive. Early successional habitat suited for edge of forests or wooded areas. Provides benefits to wildlife/pollinators as well as provides seasonal value for aesthetics and nature appreciation. To be conducive with Integrated Vegetation Management Practices defined by EPA
- + Design: Both grasses and perennials are desired at a preferable. In high visibility areas, such as entrances or amenities along trail, planting is encouraged to be designed with plugs and containers in swaths. Otherwise in typical visibility areas, a meadow mix is acceptable.

REQUIREMENTS:

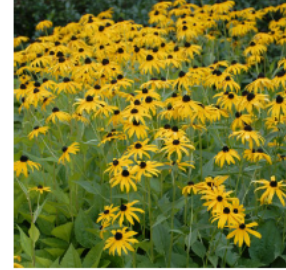
- + Plant Selection: To be selected from provided plant list. Cultivars are acceptable.
- + Plant Sizes: May utilize seed mix or plugs. Perennials and grasses are encouraged to be installed as container stock from nursery when in high visibility areas.
- + Biodiversity: Seed mixes should contain at least 10 species to be considered a seed mix. 20-30 species are encouraged for tier 2 and tier 3 impacts of disturbance.
- + Approval: Plant selections provided to NOVA Parks for approval prior to vegetation disturbance.

PLANT QUANTITIES PER 1,000 SF

	15+	MEDIUM PERENNIAL
	2+	TALL PERENNIAL
	30+	SOD
	30+	SMALL PERENNIAL
	20+	SMALL PERENNIAL 2
	20+	ORNAMENTAL GRASS

CHAMPION SPECIES:

RUDBECKIA FULGIDA



LIATRIS PILOSA



CAREX CHEROKEENSIS



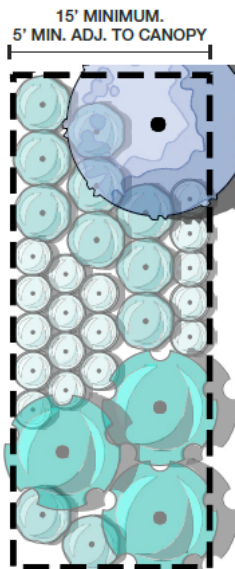
SCHIZACHYRIUM SCOPARIUM



PLANTING TYPOLOGIES - SHRUB

LandDesign
CREATING PLACES
THAT MATTER.

PLAN VIEW:



DESCRIPTION:

- + Location: Allowed only within Border Zone. Encouraged to be located adjacent to meadow typology as a transition to either adjacent properties or canopy zones
- + Use: Intended to be composed of woody plant material that does not grow taller than 30'.
- + Plant Species: Primarily shrubs while also providing the occasional small tree.
- + Plant Characteristics: Plants that exist within a woodland edge that serve as a buffer to adjacent properties. This medium sized, persistent, woody, plant material is intended to provide seasonal cover for wildlife as well as a defined edge. Seasonal and aesthetic interest by providing form and variety.
- + Design: Shrubs to be naturalized and organic in the implementation. Taller plant material is encouraged the further from the trail / closer to the adjacent property to promote layering. Hedges or linear patterns are heavily discouraged and some undulation of mature sizes is desired. Design intent shall be a naturalized look.

REQUIREMENTS:

- + Plant Selection: To be selected from provided plant list. Cultivars are acceptable to reduce height or provide resiliency.
- + Plant Sizes: Nursery grown container plants only. No shrub or tree to be installed smaller than 1/4 of its mature size. Follow American Standard for Nursery Stock.
- + Biodiversity: Measured in both variability and variety, it is discouraged limit species. Tier 1 disturbance shall provide at least 3 species. Tier 2 Disturbance shall provide at least 10 species. Tier 3 shall provide more than 20 species.
- + Approval: Plant selections provided to NOVA Parks for approval prior to vegetation disturbance.

PLANT QUANTITIES PER 1,000 SF

	1+	SMALL TREE
	3+	TALL SHRUB
	10+	MEDIUM SHRUB
	15+	SMALL SHRUB

CHAMPION SPECIES:

CALYCANTHUS FLORIDUS



ARONIA MELANOCARPA



ILEX GLABRA



EUONYMUS AMERICANUS

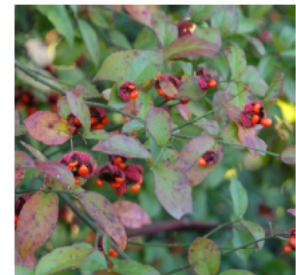


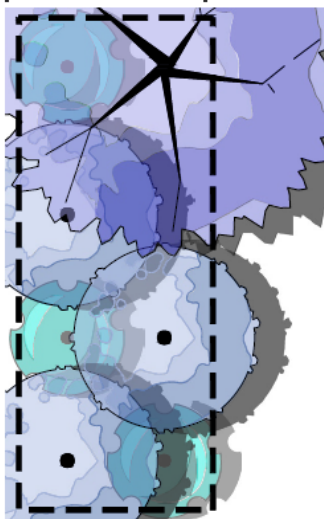
EXHIBIT B

PLANTING TYPOLOGIES - CANOPY

LandDesign.
CREATING PLACES
THAT MATTER.

PLAN VIEW:

15' MINIMUM.
5' MIN. ADJ. TO CANOPY



DESCRIPTION:

- + Location: Allowed within practical areas of the border zone. These areas are identified during the field walk prior to major maintenance and are dependant upon wire sway and tower heights within the proximity. not intended to be used directly adjacent to trail without special exception.
- + Use: Intended to provide as much canopy as possible the most allowable practical extent. Intended to provide trees with mature canopy over 30' with 50' maturity the intent. Trees with larger canopies are heavily encouraged where possible.
- + Plant Species: Trees with some understory large shrubs. Understory may be further supplemented with shrub typology where possible.
- + Plant Characteristics: Native Plants that exist within a woodland areas within the Piedmont Virginia Region that create shade and wildlife habitat.
- + Design: Ensure all trees are 5' from property edge. Create clusters of smaller trees while alternating species of medium or large trees throughout. Provide shrubs for understory to reduce amount of uncovered ground while continuing understory buffer for trail privacy from adjacent shrub typology.

REQUIREMENTS:

- + Plant Selection: To be selected from provided plant list. Cultivars are acceptable to reduce height or provide resiliency.
- + Plant Sizes: Nursery grown container plants only. No shrub or tree to be installed smaller than 1/4 of its mature size. Follow American Standard for Nursery Stock.
- + Biodiversity: Measured in both variability and variety, it is discouraged to limit species. Tier 1 disturbance shall provide at least 3 species. Tier 2 Disturbance shall provide at least 5 species. Tier 3 shall provide more than 10 species.
- + Approval: Plant selections provided to NOVA Parks for approval prior to vegetation disturbance.

PLANT QUANTITIES PER 1,000 SF

	1+	LARGE TREE
	3+	SMALL TREE
	3+	TALL SHRUB

CHAMPION SPECIES:

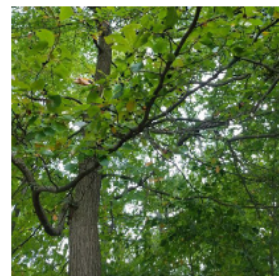
CHIONANTHUS VIRGINICUS



QUERCUS LYRATA



NYSSA SYLVATICA



CERCIS CANADENSIS

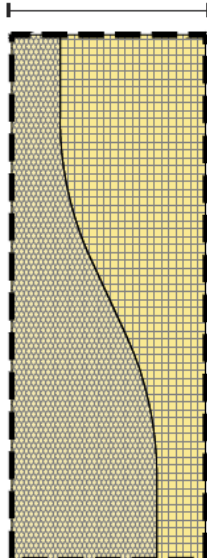


PLANTING TYPOLOGIES - STEEP SLOPE

LandDesign.
CREATING PLACES
THAT MATTER.

PLAN VIEW:

10' MINIMUM.



DESCRIPTION

- + Location: Allowed in both border and wire zone.
- + Use: To be used anytime the grade of the vegetated area exceeds 25%. Encouraged to blend and extend the plant typology beyond the steep slopes to encourage naturalization within other typologies.
- + Plant Species: Primarily grasses or perennials
- + Plant Characteristics: Plants that typically have deep or fibrous root systems that are more tolerant of poor conditions than other perennials or grasses in the list. These plants are resilient to sloped conditions as they are typically drought tolerant and quick draining conditions.
- + Design: Both grasses and perennials are desired at a preferable 50/50 ratio to ensure both stabilization and pollinators.

REQUIREMENTS

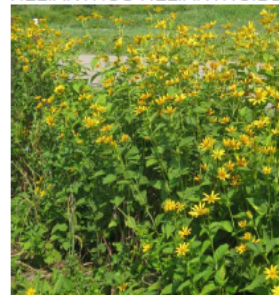
- + Plant Selection: To be selected from provided plant list provided. Cultivars are not deemed necessary.
- + Plant Sizes: May utilize seed mix or plugs. Seed mixes must include at least 75% of the plant species. Plugs to be provided at 12" O.C.
- + Biodiversity: Seed mixes should contain at least 10 species to be considered a mix. 20-30 species are encouraged for tier 2 and tier 3 impacts of disturbance.
- + Approval: Seed mix product or plug composition to be provided to NOVA Parks for approval prior to vegetation disturbance.

PLANT QUANTITIES PER 1,000 SF

	80+	SLOPE PERENNIAL
	80+	SLOPE GRASSES

CHAMPION SPECIES

HELIANTHUS HELIANTHOIDES



ELYMUS HYSTRIX



ASCLEPIAS TUBEROSA



ANDROPOGON GERARDII



EXHIBIT C

VEGETATION MANAGEMENT - INVASIVE PLANT REMOVAL

MANAGEMENT OBJECTIVE:

The invasive species removal strategy aims to eliminate plant species that threaten the establishment and long-term survival of native or otherwise desirable vegetation, or that may diminish the ecological value of the Washington & Old Dominion (W&OD) Trail. This strategy provides clear guidance for the safe and effective removal of invasive species, while ensuring the protection and preservation of the surrounding ecosystem's health, stability, and integrity. The following outlines the recommended approach to invasive species removal:

Invasive Species Control Narrative:

- + All herbicides used within stream buffers & riparian areas shall be labeled for aquatic use and applied by a Virginia Certified Applicator or registered technician.
- + Invasive herb and vine species shall be bagged and disposed of off-site following removal. Portions of invasive tree species contain leaves and seeds shall be ground and removed from the site.
- + Areas where invasive species are removed should be planted with approved plant species per the designated planting zone. Replanting shall be done in accordance with assigned planting typologies in Planting Design of Chapter 3.
- + Invasive species control shall be conducted until agreed upon thresholds are met.
- + Invasive woody plants and vines are best removed in late summer to fall.
- + Herbaceous invasives are preferably removed in the late spring to early summer before seeds have set.

COMMON INVASIVE REMOVAL PROCEDURE:

- + **KUDZU:** Infestations can be controlled using multiple methods. Mowing, trimming, selective herbicide application or the use of targeted goat grazing are all viable methods for managing kudzu growth. All pesticide applications shall be applied by a Virginia Certified Applicator.
- + **WAVY LEAF BASKET GRASS:** Infestations should be treated with selective herbicide in summer or early fall before seed set. Herbicide applications shall be applied by a Virginia Certified Applicator.
- + **JAPANESE STILT GRASS:** Stiltgrass should be removed by mowing, weed trimming, or other approved methods in mid-to-late summer before the plants set seed. Herbicide applications shall be applied by a Virginia Certified Applicator.
- + **JAPANESE HONEYSUCKLE:** Shall be removed by hand whenever possible, to minimize site disturbance. During the growing season, an approved selective herbicide may be applied by a Virginia Certified Applicator. Targeted application of a selective herbicide may be used in the fall due to Japanese honeysuckle's ability to photosynthesize after other species have gone dormant. Care should be taken to avoid drift and overspray.
- + **AUTUMN OLIVE:** Small saplings may be brush mowed or cut down. Woody stems should be removed by cutting near ground level and applying an appropriate herbicide to the cut stems. It may be necessary to repeat the treatment every 1-2 years until the agreed upon threshold is achieved.
- + **BRADFORD PEAR:** Bradford pears of any size are to be removed from tree preservation areas. The trunk should be cut, flagged and painted with an approved herbicide applied by a Virginia Certified Applicator.

- + **GARLIC MUSTARD:** Infestations may be removed by hand, mowed, or trimmed. Removal should take place while plants are flowering, before the seed set. A selective herbicide may be applied by a Virginia Certified Applicator or registered technician in early spring or late fall to avoid non-target species.
- + **JOINTHEAD ARTHRAXON:** Infestations should be treated with selective herbicide applied by a Virginia Certified Applicator in summer or early fall before seed set.
- + **MILE-A-MINUTE:** Infestations may be treated with a pre-emergent herbicide that kills plants as they germinate in the early spring, with follow-up applications using post-emergence herbicides to further reduce populations to desired threshold. Sparse populations are better treated with post-emergence herbicides.
- + **BEEFSTEAK PLANT:** Infestations can be treated with a selective herbicide applied by a Virginia Certified Applicator.
- + **LESPEDeza:** Lespedeza may be mechanically controlled by repeated pulling or mowing in the flower bud stage for two to three consecutive years which should reduce the vigor and deplete root reserves. Infestations may be treated with an approved selective herbicide such as triclopyr, metsulfuron, or glyphosate applied by a Virginia Certified Applicator.
- + **MULTIFLORA ROSE:** Infested areas may be cleared provided the entire root system is removed. This treatment must be repeated 3-6 times a year for 2-4 years until the energy resources of the plant have been depleted. Dormant season herbicide applications should be made in late winter or early spring prior to leaf out. Depending on the type of herbicide chosen, apply to the soil surface or to the crown and lower portions of canes. Basal bark applications should be made to the crown and lower 12-18 inches of stems. This method is effective throughout the year as long as the ground is not frozen. The cut stump method should be considered when treating individual shrubs or where the presence of desirable species precludes foliar application. This treatment remains effective at low temperatures as long as the ground is not frozen.
- + **ADDITIONAL SPECIES:** Refer to Virginia Department of Conservation and Recreation's Virginia Invasive Plant Species List for a full list of invasives.

EXHIBIT D

IDEAL CONDITION - CENTERED



IDEAL CONDITION - DUAL TRAIL CENTERED



EXHIBIT D

IDEAL CONDITION - OFFSET



IDEAL CONDITION - STEEP SLOPE + OFFSET





**Great Employees Delivering
Memorable Experiences!**

Monthly Report | May 2025



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From a wavepool to nature trails, from golfing to boating, there's a regional park that is just right for you. Come for the day, a weekend or a week. The NOVA Parks are yours to enjoy!

MONTHLY UPDATES FROM:

Paul Gilbert, Executive Director

Kelly Gilfillen, Marketing and Communications Director

Anh Phan, Community Engagement Manager

Chris Pauley, Operations Director

Blythe Russian, Park Operations Superintendent

Kevin Casalenuovo, Park Operations Superintendent

Dennis Charlton, Food and Beverage Manager

Aldie Mill, Mt. Zion, and Gilbert's Corner

Corwyn Garman, Site Manager

Algonkian

Reid Nebergall, Park Manager

Ball's Bluff

Ben Bilko, Park Manager

Blue Ridge

Ryan Corder, Park Manager

Brambleton

Dustin Betthauser, Park Manager

Bull Run

Eric Ferguson, Park Manager

Bull Run Marina

Kate Irwin, Park Manager

Bull Run Shooting Center

Laurelyn Rawson, Park Manager

Cameron Run

Howie Abasto, Park Manager

Cattail Property

Ben Bilko, Park Manager

Carlyle House

Rebecca Super, Historic Site Manager

Fountainhead

Kate Irwin, Park Manager

Meadowlark Atrium

Wayne Hager, Atrium Facilities Manager

Meadowlark Botanical Gardens

Jeff Hill, Botanical Gardens Manager

Occoquan

Matthew Taylor, Park Manager

The River View at Occoquan

Hannah Fry, Hospitality & Event Sales Manager

Piscataway Crossing

Ben Bilko, Park Manager

Pohick Bay Park

Brad Jackson, Park Manager

Pohick Bay Golf Course

Jon Mendez, Assistant Park Manager

Potomac Overlook

Rachel Doody, Park Manager

Red Rock

Ben Bilko, Park Manager

Reservoir Park at Beaverdam

Dustin Betthauser, Park Manager

Rust Manor

Alexandra Gordon, Facility and Event Sales Manager

Sandy Run

Kate Irwin, Park Manager

Temple Hall

Ben Bilko, Park Manager

Upton Hill

Evan McGurrin, Park Manager

Winkler Botanical Preserve

Rachel Doody, Park Manager

W&OD Trail

Ryan Corder, Park Manager



Paul Gilbert, Executive Director

- The NOVA Parks team developed a Draft MOU on Vegetative Management for the W&OD Trail. We shared this with Dominion, and later with the media at a tree planting ceremony on Arbor Day. As a result of these efforts, Dominion has agreed to enter discussions about a new MOU that will govern the natural resources on the W&OD.
- Reservoir Park was given an environmental award from Loudoun County.
- A team from NOVA Parks met with Arlington Master Naturalist to discuss our various partnerships that include Potomac Overlook, Upton Hill and Winkler Preserve.
- I presented on natural resources banking at the Land Conservation VaULT Conference.

An Update from the Executive Director



Kelly Gilfillen, Marketing and Communications Director

- Promoted Arbor Day Commemoration via flyer, website and social media. Shared event photos and transcript with media.
- Updated and began executing 2025 Waterparks Marketing & Communications plan.
- Developed and began executing campaign to boost summer camp sales via loyal customer incentives.
- Continuing to execute Climb UPton Marketing & Communications Plan, including feature in *Washingtonian Magazine's* May cover article "52 Perfect Saturdays."
- Continuing to fulfill all website, social media and email communications needs while Digital Marketing Specialist position is vacant.



Anh Phan, Community Engagement Manager

- Coordinated meeting with Arlington Regional Master Naturalists and NOVA Parks staff to brief about volunteer park stewards and developments with Potomac Overlook, Upton Hill and W&OD Trails.
- Attended Arlington Forest and Natural Resources Commission meeting.
- Reconnected with Loudoun County executive staff.
- Participated in Town of Vienna's Arbor Day Tree Planting on the W&OD Trail.
- Met with Washington Area Bicyclists, Coalition for Smarter Growth and NOVA Parks' Marketing & Communications Director online.

An Update from the Operations Team

Chris Pauley, Operations Director

- Working with Reservoir Park staff to continue the successful integration of crew/rowing into the facility.
- Met with City staff and Chief of Police in Falls Church to discuss options for enhanced signage at trail intersections.
- Working with Potomac Conservancy on proposed partnership opportunities.
- Met with Alexandria Police to tour Great Waves and discuss how to best combat after-hours parking lot access.
- Finalizing supervision of a GMU graduate student's internship that focused on natural surface trailhead design and standards.
- Assisted with the Arbor Day tree planting along the W&OD Trail in Vienna.

Blythe Russian, Park Operations Superintendent

- Participated in interviews for Digital Marketing Specialist and Waterpark Maintenance Technician.
- Distributed a Request for Proposal for Online Ticketing for light show sales.
- Submitted logistical input for the Events Communications Plan and the Climb Upton Communications Plans to Marketing.
- Attended a presentation by NOVA Parks Intern, Mike Gephart on trail head signage, wayfinding, and web standards.
- Visited Meadowlark to review upcoming Capital and Capital Maintenance projects with park and planning staff.
- Met with Captain Ballantine with the City of Alexandria Police to discuss strategies to limit car meet-ups at Cameron Run Regional Park.
- Met with park staff to create consistent standards for crew facilities.
- Met with Park Managers from Cameron Run, Upton Hill, Occoquan, Meadowlark, Pohick Bay, and Sandy Run for monthly meetings.
- Provided input and edits for waterpark signage.
- Participated in weekly golf planning meetings and our monthly committee meeting.

Kevin Casalenuovo, Park Operations Superintendent

- Met with team to discuss how to best handle crew requests for the summer.
- Participated in weekly golf planning meetings and monthly committee meetings.
- Attended a presentation from the NOVA Parks intern discussing a way to improve trailhead and wayfinding signage.
- Participated in a meeting in Falls Church to discuss intersection standards.
- Attended a meeting with the Marketing Director and Bull Run team to discuss a marketing plan for the special event center.
- Met Park Manager at Aldie Mill to discuss staffing and programs.
- Attended a meeting with park staff and Loudoun Water to discuss trail realignment west of Ashburn.
- Helped coordinate and attended an Arbor Day event on the W&OD Trail in Vienna where 7 trees were planted signifying unity and support for the W&OD Trail.
- Met with representatives for our golf point of sale and tee sheet (NBC universal) to discuss opportunities for expanded marketing efforts and receive an overview of services they are providing.
- Attended a Persian New Year event at Bull Run Special Event Center.
- Met with Bull Run staff to discuss a July 4th event at the Special Event Center.
- Discussed float ideas with Marketing Team for Memorial Day and July 4th parades.



Dennis Charlton, Food and Beverage Manager

- Provided support for The Woodlands and Rust events.
- Tested various concession items for the upcoming pool season.
- Provided BBQ picnic menu for a 5K at The Pavilion at Occoquan.
- Provided catering services for 3 high school proms at The River View.

Aldie Mill, Mt. Zion and Gilbert's Corner – Corwyn Garman, Site Manager

- Tours at Aldie Mill Historic Park opened for the 2025 season in April, yielding:
 - 162 visitors for weekend tours at the park.
 - 40 students and ten adults participated in school tours.
 - 51 volunteer hours for weekend tours.
- Staff performed maintenance on the mill race and gear pit in the merchant mill.
- New gravel and parking lot maintenance has been completed at Mt. Zion Historic Park.
- Staff met with mechanical engineers at Mt. Zion Historic Park to explore HVAC solutions for the church.
- A new septic system is being installed at Mt. Defiance Historic Park.
- Preservation efforts are underway at Goose Creek Historic Park as engineers have initiated a new treatment survey for the stone bridge.
- Gilbert's Corner Regional Park participated in the City Nature Challenge April 25-28.



Algonkian – Reid Nebergall, Park Manager

- Swing into Spring ran through May 4th. This seasonal promotion features exclusive offers on green fees, merchandise, and food & beverage selections, along with a raffle to win a Scotty Cameron Putter.
- New driving range mats have been installed to improve both the aesthetic and overall experience of the practice facility.
- Repair work on the main pool at Volcano Island is wrapping up and included replacing the full return and main drain lines. This project will ensure uninterrupted operations this summer.
- Lifeguard training is underway with over 35 lifeguards already trained and ready for opening.

Ball's Bluff – Ben Bilko, Park Manager

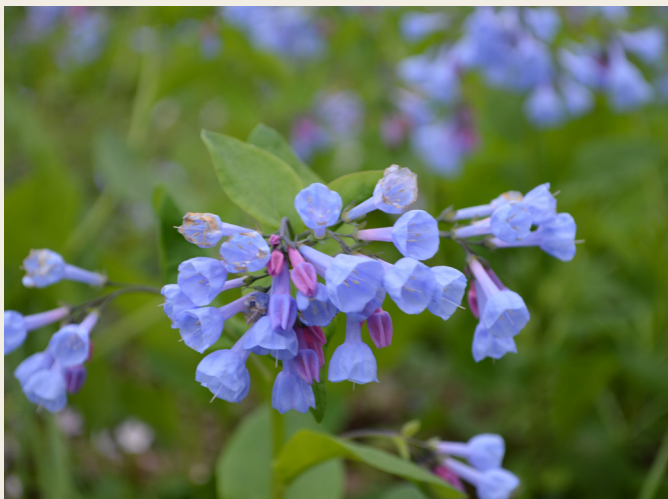
- The Friends of Ball's Bluff (FoBB) held a workday focused on trail maintenance.
- Park Day Event was impacted by poor weather.
- Three workdays have been held to remove invasive plants.
- Tours have been well attended on weekends.
- FoBB participated in the Leesburg Flower and Garden Show.

Blue Ridge – Ryan Corder, Park Manager

- The removal of an old barn was completed to ensure the safety of our campers and to improve park aesthetics.
- Camping has been steady throughout the spring.

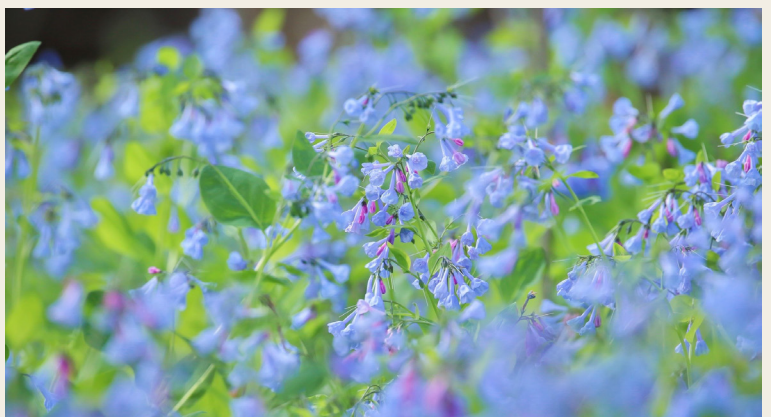
Brambleton – Dustin Betthauser, Park Manager

- Renovation of the green side bunkers on hole #2 and relocation of the forward tee box on hole #5 are in progress.
- Brambleton hosted several tee time and shotgun outings in April, kicking off the tournament and outing season.
- League play began in April. Brambleton currently hosts 7 weekday leagues with rosters ranging from 28-40 players.
- The annual Swing into Spring campaign ran through early May, targeting the promotion of the app, food & beverage sales, monthly memberships, merchandise and tee times.



Bull Run – Eric Ferguson, Park Manager

- The Special Events Center hosted Persian New Year and Festival of Colors events.
- Waterpark staff continue to hire for the season and have conducted their first lifeguard class of the season.
- During April, the Bluebells were at peak bloom and thousands of people came to the park to enjoy the sight.
- Park staff worked with the Roving Naturalists to conduct two days of field trips for a Title I school.
- Park staff attended the waterpark committee meeting.



Bull Run Marina – Kate Irwin, Park Manager

- Served as a site for the Friends of the Occoquan spring watershed cleanup with 23 volunteers attending.



Bull Run Shooting Center – Laurelyn Rawson, Park Manager

- Hosted several large corporate outings and have several more 50+ person events on the books for May.
- Interviews have started and we are in the process of hiring summer staff.
- We had a very successful 3-Bird Tournament in April with over 80 shooters participating. Several shooters competed in both the semi-automatic and pump action categories.
- We were able to receive half a pallet of FREE ammunition from our target supplier as part of their 2024 purchasing promotion program. This is a wholesale value of almost \$4,000!
- We hosted the annual Ducks Unlimited – Potomac Valley Auction and Sporting Clays outing. We have been working with them for over 13 years, and this was their largest event to date.



Cameron Run – Howie Abasto, Park Manager

- Park staff were busy over Spring Break working on pool cleaning and batting cage and mini golf operations.
- The main entrance building received a makeover with new siding and renovated unisex restrooms. The restrooms at the back of the waterpark will also receive a facelift.
- Conducted interviews and completed hiring for a full-time Maintenance Waterpark Technician.
- Tunnel For Towers 10K Run was hosted on May 4 using the parking lot and shelter.
- Splash Pad renovation is in the final stages.
- Coral Reef Pavilion renovation has been completed.

Cattail Property – Ben Bilko, Park Manager

- Spring maintenance and mowing activities have resumed.

Carlyle House – Rebecca Super, Historic Site Manager

- Braddock Day 2025 was a great success despite the weather. 372 visitors became 18th century citizens of Alexandria for the day and got to cast their vote on whether to side with the British and pay more taxes or side with the colonists and not pay more taxes. The colonists were the clear winners.
- Staff have been busy with many Girl Scout programs and preparing for the new Family Fun Day programs.
- The gardens look beautiful, just in time for Historic Garden Week.



Fountainhead – Kate Irwin, Park Manager

- Served as a site for the Friends of the Occoquan spring watershed cleanup with 42 volunteers attending.
- VA Department of Environmental Quality stream study class visited the park.





Meadowlark Atrium – Wayne Hager, Atrium Facilities Manager

- In the month of April, the Atrium hosted 12 private events, including 11 Wedding/Wedding Receptions and 1 fundraiser event. All the events were catered by Great Blue Heron Catering and all the events were well received.
- We've been busy hosting 50 site tours and 20 pre-event walk throughs.
- Hosted 2 menu tastings with Great Blue Heron Catering; 7 groups attended the first tasting and 6 groups attended the second.

Meadowlark Botanical Gardens – Jeff Hill, Botanical Gardens Manager

- The gardens were visited by over 8,000 guests in two days during the peak cherry blossom weekend.
- The gardens hosted a month-long Spring Scavenger Hunt which has served over 2,500 little hunters. The hunt was available to guests through the end of April.
- Hosted the Northern Virginia Bonsai Society Spring Bonsai Show and held an Azalea plant sale led by the Northern Virginia Azalea Society.
- Field trips and garden tours have begun.
- The horticulture team led an invasive plant pull day on Earth Day, which garnered new recruits for our volunteer team.
- The horticulture team completed a field trip to Brookside Gardens and were provided with a behind-the-scenes tour to review their operations.
- Manager and Horticulture Specialist toured a wholesale plant nursery in hopes of establishing new relationships and better pricing on plant materials.
- Food Truck sales inside the garden have begun.
- Staff hosted members of the Capital and Operations teams to review capital projects on-site.
- Three separate Eagle Scouts completed their projects at Meadowlark: a Native Seed Exchange, Streambank Restoration, and a Lending Library.

Occoquan – Matthew Taylor, Park Manager

- Hosted a 5K for the "Be A Blessing Foundation" in which 150 runners participated.
- Hosted a student group from George Mason University who conducted a park cleanup.
- Hosted the Friends of the Occoquan (FOTO) group for a park cleanup event.
- Marina operations started the first weekend of April.

The River View at Occoquan – Hannah Fry, Hospitality & Event Sales Manager

- In April, The River View hosted 4 weddings, 3 High School Proms, a menu tasting and an Extended Hours event.
- In April, 40 scheduled and multiple walk-in venue tours were conducted.

Piscataway Crossing – Ben Bilko, Park Manager

- Maintenance and mowing activities have resumed.

Pohick Bay Park – Brad Jackson, Park Manager

- Welcomed EX2 Adventures for another trail run for one of their spring race events, hosting over 350 participants!
- The annual pool cleaning, which is a full team effort and one of the most important spring initiatives to prepare for the season, took place in mid-April.
- An Eagle Scout project was completed that replaces an existing trail bridge on the orange trail to connect guests from Shelter 1 and 2 parking lot to the waterpark.
- We celebrated Golf Course Superintendent Sean Owens' 15 years of service with NOVA Parks. Congratulations to him on all his work and dedication to Pohick Bay Golf Course!
- The Family Campground and launch ramp parking lots were all repaved this season.
- Lifeguard classes continued for summer aquatics staff, with over 25 lifeguards participating in April.
- Boat rentals opened for the season and were open during Spring Break. Guests enjoyed the water ahead of the crowds that will arrive with warmer weather!
- Park Specialist Asia Stroud conducted pre-season orientation for marina staff.
- Cub Scout Pack 995 and Troop 994 conducted clean up events on the shoreline to help protect and maintain the waterways.



Pohick Bay Golf Course – Jon Mendez, Assistant Park Manager

- Began hosting the 2025 Sparks Golf League on Tuesday, Wednesday, and Thursday afternoons.
- Grounds crew planted bushes and flowers around the clubhouse and #10 tee box and seeded wildflowers next to the driving range and #1 tee box.
- Grounds crew aerated the tees and greens in early April.

Potomac Overlook – Rachel Doody, Park Manager

- Hosted our first tool sharpening event for all local Arlington Master Naturalist Park Stewards to bring their personal tools and volunteer tools to sharpen and mingle with NOVA Parks and Arlington County Parks staff.
- April programs and events included a Forest Bathing public program, multiple Girl Scout Letterboxing programs, three public and private school programs, and the annual Spring Egg Hunt event during the week of Arlington County's Spring Break.
- During the City Nature Challenge, April 25-28, public programs offered at Potomac Overlook to increase awareness and participation in the event included Bug Bingo, Nocturnal Wildlife Night Hike and Campfire, and a hike led by Arlington Master Naturalist volunteers.
- Staff completed the Snake Exhibit renovations project in the Nature Center and work has begun on the picnic shelter bathroom renovations.
- The Roving Naturalists helped to lead two stations for school field trips at Bull Run for Frederick Douglass Elementary School, which received a grant from the Outdoor Kids Fund.
- Public programs that the Roving Naturalists offered in April included Magnificent Mushrooms, Warblerpalooza, Moth Mania, Pokémon in Real Life, Talkn' About Turtles, a Meteor Shower watch party at Gilbert's Corner, Bluebell Photo workshops and hikes at Bull Run, Critter Corner tables for Meadowlark and Potomac Overlook Spring Egg Hunt events, and City Nature Challenge programs at Algonkian, Meadowlark, Upton Hill, Gilbert's Corner, Rust, Pohick Bay, and a final BioBlitz! at Bull Run.
- Roving Naturalist Matt Felperin also led a kayaking paddle instructional training at Pohick Bay for NOVA Parks staff who help with paddling tours and field trips.



Red Rock – Ben Bilko, Park Manager

- Mowing has resumed.

Reservoir Park at Beaverdam – Dustin Betthausen, Park Manager

- Roving Naturalist Whitney Gilliland conducted a Critter Corner Program on April 27th.
- 60 Advanced Placement Environmental students and teachers from Potomac Falls High School conducted a watershed scavenger hunt utilizing the interpretive elements of the park.
- Pavilion rentals are starting to increase. Staff have worked to develop scripts for pavilion check ins and implementing maintenance SOP's.
- Management met with Loudoun County Fire and Rescue & Loudoun County Sheriffs to discuss their water rescue response plan. On May 20, local EMS teams will be conducting a simulated water rescue and search and rescue training.



Rust Manor – Alexandra Gordon, Facility and Event Sales Manager

- Rust Manor has been busy assisting other event sites with training on the new features of our online event management software!
- During the month of May, the site will average 2-3 weddings per week!
- In May, we will partner with a rental company to host a tasting at The Woodlands to showcase some of their new rentals, including linens, napkins, base plates, and napkin rings.
- Staff have been planting grass and landscaping, and have been receiving complements from clients. The team is excited to continue to plant more flowers around the property.

Sandy Run – Kate Irwin, Park Manager

- Attended Virginia Scholastic Rowing Association (VASRA) Board meeting and VASRA's Local Organizing Committee meeting.
- Hosted four high school regattas and three college regattas in the month of April.
- Northern Virginia Rowing Club hosted their annual open house and learn to row program.
- Occoquan Boat Club hosted their annual meeting for members.

Temple Hall – Ben Bilko, Park Manager

- The Farm is open and busy with school tour groups and party rentals.
- The annual egg hunt event was a great success and well attended.
- Spring programming has begun in the Legacy Farms flower garden. They have been busy planting and have already begun to cut and arrange some of the early spring flowers.

Upton Hill – Evan McGurrin, Park Manager

- Climb Upton served 656 climbers in the month of April, a 5% increase from last year.
- The Annual Spring Egg Hunt continues to grow in popularity, with a 79% increase in the number of participants from last year.
- Staff submitted our FY26 Capital Equipment requests.
- Staff attended the monthly Aquatics Meeting.

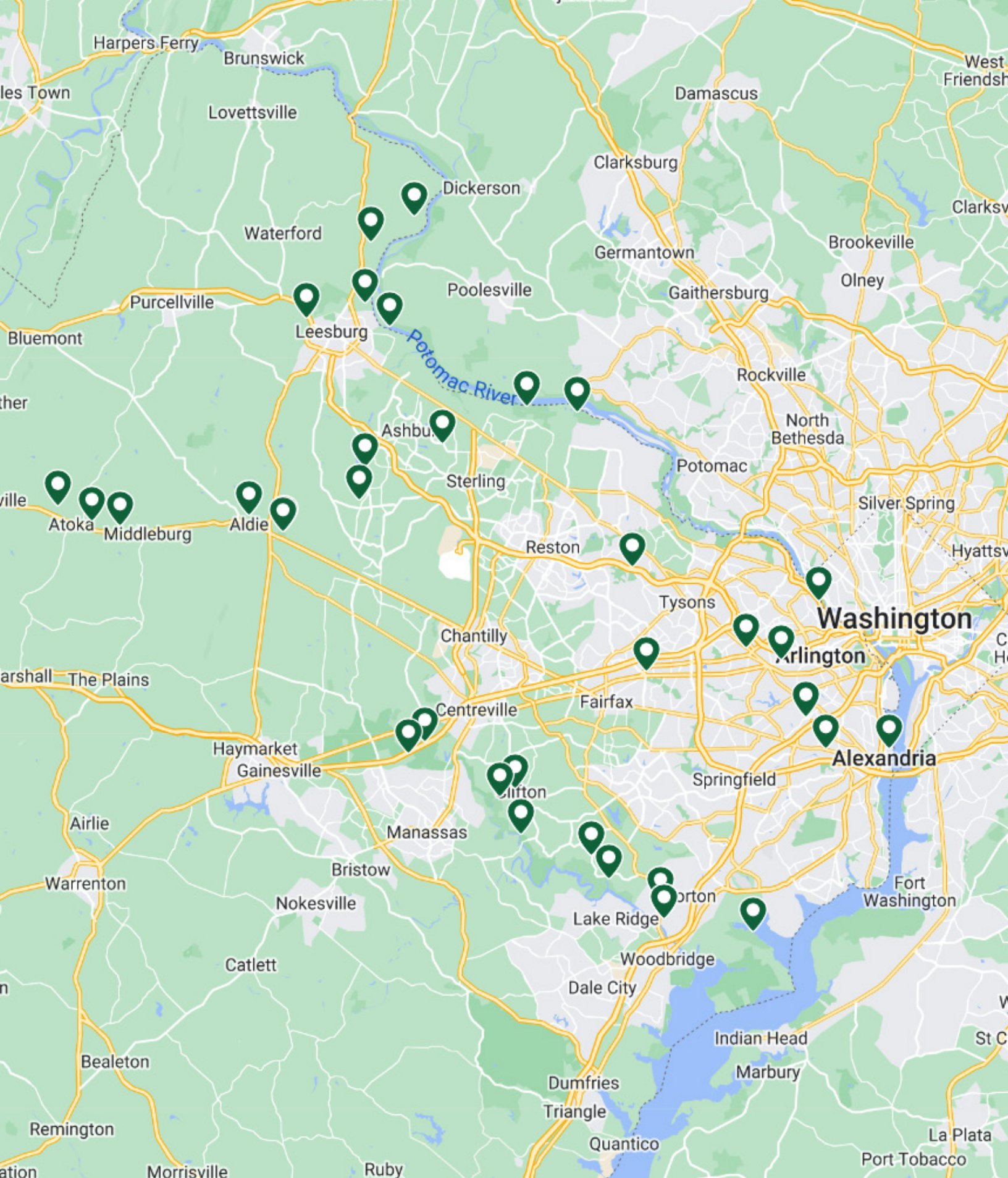
Winkler Botanical Preserve – Rachel Doody, Park Manager

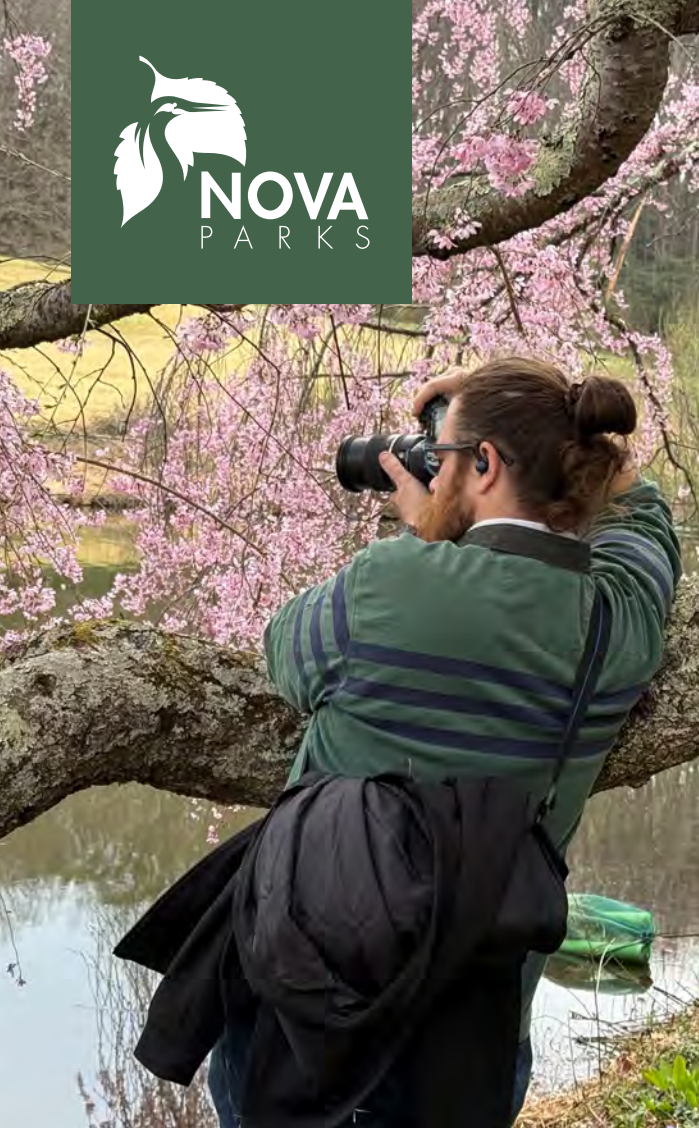
- Programs and events at Winkler in April included Alexandria City Public School field trips for 324 students, the first ever Sasquatch Count which had 253 participants counting Big Foot cutouts to enter to win a weekend stay at Pohick Bay, an evening outreach program at Douglass MacArthur Elementary School and specific badge programs for both Scouting America and Girl Scout troops.
- Preserve Program and Facility Manager Soup Fick continues to take classes to become an Arlington Master Naturalist.
- Staff at Winkler continue to replant more than a dozen areas for the next flowering cycle and mulch trails.



W&OD Trail – Ryan Corder, Park Manager

- Management and the Friends of the W&OD worked with Loudoun Water, Trailside Middle School, and Sustainability Matters to complete a "seed bombing" project that will establish a new pollinator meadow along the trail in Ashburn.
- Staff worked with Friends of the W&OD, Apple Federal Credit Union, and trail adopters on Celebrate Trails Day to pick up trash along the W&OD.
- W&OD staff supported the Arbor Day tree planting event at the Town Green in Vienna.
- Met with Sustainability Matters to discuss the potential for future wildflower meadow projects along the W&OD.
- Staff continue to work with contractors on detours for projects on or near the trail.





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Winkler Botanical Preserve

Rachel Doody, Park Manager

W&OD Trail

Ryan Corder, Park Manager



An Update from the Executive Director

Paul Gilbert, Executive Director

- I was pleased to be joined by Jim Bonfils and leadership from Loudoun Water to receive an environmental excellence award from the Loudoun County Board of Supervisors for Reservoir Park.
- The All Staff meeting was a great success, and I congratulate all the winners of the performance awards. Paul Baldino was there to help recognize these achievements. This meeting is always a great reminder of the many successes of NOVA Parks.
- Work continues with our many local government partners on the W&OD tree issues. We have been developing a set of best management standards that we would like to govern Dominion's work in the future.
- We are happy to welcome Anh Phan back as Community Engagement Manager.



Kelly Gilfillen, Marketing and Communications Director

- Provided update at All Staff Meeting about expansion in one year, including 4 new communication plans, a customer data tool, podcast advertising, social media influencer partnerships, retail merchandise and food truck design, website functionality, and a social media management tool.
- Produced news releases about Executive Director's retirement and Environmental Excellence Award for Reservoir Park from Loudoun County Environmental Commission.
- Coordinated interviews about Dominion Energy tree cutting along the W&OD Trail. Coverage totalled [10 news segments](#).
- Met with the team at Bull Run to discuss a campaign to attract ideal customers for the Special Event Center.
- Conducted multiple Marketing Overview Trainings to introduce new staff to the Marketing & Communications Team's approach to producing plans and providing support.
- Met with Park Operations Intern to discuss trailhead signage standards and develop an action plan.
- Conducting Digital Marketing Specialist interviews.



An Update from the Operations Team

Chris Pauley, Operations Director

- Working with park staff and budget team to facilitate final FY26 Budget Goals and FY25 Budget Highlights.
- Working with Arlington County staff as they continue to work on planning efforts to manage the county's deer population and the incorporation of NOVA Parks facilities into their plans.
- Working with Planning and Development team on a number of capital projects. Locations include the W&OD, Bull Run, Rust, Winkler, and Algonkian to name a few.
- Conducted interviews for several open positions.



Blythe Russian, Park Operations Superintendent

- Conducted interviews for Waterpark Manager at Cameron Run Regional Park. We are excited to welcome Howard Abasto who started on April 14. Howard had previously worked at Cameron Run and we are excited to welcome him back.
- Attended the Annual Meeting at The River View and enjoyed hearing about all of the great accomplishments of the agency and the team.
- Participated in online event management software training with the Events Committee.
- Visited Carlyle House, Cameron Run, Winkler, Occoquan, Pohick Bay, and Upton Hill.
- Participated in several planning meetings for Winkler parking and Occoquan lighting.
- Attended weekly golf meetings, Events Committee meeting, and Aquatics Team meeting.
- Waterpark Capital Maintenance projects are underway at all 5 waterparks. NOVA Parks Aquatics Manager is busy overseeing these projects to keep them on track, including slide repair, pool repairs, shade installation, and feature improvements.

Kevin Casalenuovo, Park Operations Superintendent

- Participated in meetings with the Golf Committee, Aquatics Committee, and Events Committee.
- Met with W&OD Park Manager Ryan Corder and facilitated introductions to key Dominion Energy employees and touring certain sections of trail.
- Conducted multiple meetings with staff and our representative regarding the transition to the online event software platform for event sites.
- Attended a preliminary stakeholder meeting for the Goose Creek Stone Arch Bridge project.
- Participated in the interview process for Park Manager at Cameron Run Regional Park.
- Conducted site visits to W&OD Trail, Rust Sanctuary, Bull Run Regional Park, Reservoir Park, Aldie Mill, Goose Creek Bridge, and Mt. Defiance.

Dennis Charlton, Food and Beverage Manager

- Brickmakers Café is enjoying busy weekends as the weather warms up.
- Brickmakers Café provided breakfast catering for several corporate events.
- Great Blue Heron Catering provided catering support for internal open house events.
- Met with a specialty meat provider that specializes in halal and kosher meats.
- Provided chef support at The Woodlands and Rust Manor House as Chef Kevin enjoys time with his new baby boy!



Aldie Mill, Mt. Zion and Gilbert's Corner – Corwyn Garman, Site Manager

- Staff prepared Aldie Mill Historic Park for the 2025 season.
- Coordinated Mill cleanup with NOVA Parks staff including help from the team at Bull Run.
- Updated websites with current information.
- Booking school tours and finalizing program schedule.
- Staff and project managers at HQ met with engineers to discuss repairs and water supply issues at the Mill.
- Staff participated in the Goose Creek Stone Arch Bridge Kick Off Meeting with Loudoun County officials and various stakeholders. Staff met with members of the Virginia Piedmont Heritage Association to discuss the study at Goose Creek Historic Park.
- Staff and students from George Mason University continued to photo document graffiti inside of Mt. Zion Old School Baptist Church.
- Corwyn Garman served as a judge for Aldie Elementary's 5th grade "Shark Tank" business proposals.
- Staff attended the annual report meeting of the Aldie Heritage Association.
- Staff attended the NOVA Parks Annual meeting and camps & programs meeting.
- Staff coordinated spring cleanup at Mt. Zion Historic Park.



Algonkian – Reid Nebergall, Park Manager

- Golf course spring aerification is complete.
- Hosted the annual U.S. Kids tournaments, with over 200 participants.
- The spring rowing season has begun, with three teams practicing. Several teams moved out of Algonkian and back into Reservoir Park.
- The Woodlands hosted its annual Open House, with over 80 attendees and 2 new contracts signed.
- The Woodlands staff are working with Great Blue Heron to plan a Mother's Day Brunch event to showcase the venue to new clients.
- Staff conducted our first lifeguard training class this month, with over 30 participants.
- Work continues on extensive repairs to the main pool at Volcano Island.

Ball's Bluff – Ben Bilko, Park Manager

- 2 workdays were held by the Friends of Ball's Bluff and preparations are being made for Park Day in April.
- Cannons have been repaired and taken back to the battlefield for upcoming tours.

Brambleton – Dustin Betthouser, Park Manager

- Golfers eagerly returned to the course after a long winter, marking the beginning of the spring season.
- The golf maintenance team completed spring aeration, and shop staff shared educational videos on the progress through our social media channels garnering hundreds of views.
- The annual Birdie Bash tournament drew 26 teams (52 players) for a two-person scramble on a modified, golfer-friendly short course, fostering a fun and competitive atmosphere.
- Management prepared for the upcoming restroom renovation project, which started on March 31 and aims to enhance the overall golfer experience.
- Final preparations were made for the annual Swing into Spring campaign. The campaign promotes engagement and loyalty by acquiring new app users and rewarding existing users through exclusive offers.
- Assistant Park Manager Matt Murphy and Derek Farrey, Loudoun County Public School's Director of Athletics and Extracurricular Activities, collaborated with other local golf course General Managers to establish opportunities and pricing for high school golf teams.

Bull Run – Eric Ferguson, Park Manager

- Waterpark preparations are going well, including hiring of staff and renovations to the main pool.
- Staff attended the aquatics meeting, and hosted customer service training and CPR/First Aid class.
- Additional power capacity project for the light show is still underway in the Special Events Center.
- The gatehouse has opened for the season.
- The bluebells are almost at peak bloom.



Bull Run Marina – Kate Irwin, Park Manager

- Gate key sales, providing access to the launch site, kick-off in early spring. On average, 600-700 keys are sold annually.

Bull Run Shooting Center – Laurelyn Rawson, Park Manager

- Instructor candidates attended the NRA Shotgun Instructor course. This is the first certification step for folks interested in teaching Learn to Shoot Safety classes and Learn the Game classes.
- Staff participated in the annual CPR re-certification class. Bull Run Regional Park's two Specialists hosted the class for staff from both the Bull Run Shooting Center and Bull Run Regional Park.
- Staff took their annual Range Safety Officer (RSO) re-test. This is done every March to keep our skills and knowledge up-to-date.
- Hosted the local Ducks Unlimited group for their annual Sporting Clays tournament, banquet and auction. They have been holding this event here for over 10 years.
- Large corporate groups have started booking spring events. We have already hosted offices with 75+ people.

Cameron Run – Paul Price, Park Manager

- All Ice & Lights displays have been stored and trailers have been moved offsite, and the ice rink has been decommissioned for the season.
- Work on the splash pad has begun, including sand blasting, installing new features, and repainting the deck.
- Wave pool cleaning and repair work is in progress.
- Batting cages and miniature golf are now open on weekends.
- Coral Reef Pavilion repairs are underway, including power washing and staining.
- In-progress renovations to the exterior restrooms include new flooring, new fixtures, new wall coverings, new lights, and new doors.
- The lifeguard break area is undergoing a facelift including new flooring, new doors, and new wall coverings.
- Waterpark job fairs and hiring are going well.



Cattail Property – Ben Bilko, Park Manager

- Staff continues to remove dead trees and debris from the property.

Carlyle House – Rebecca Super, Historic Site Manager

- The bathroom renovation is now complete. They look fabulous!
- General Edward Braddock has taken up residence at Carlyle House for the 270th time. Staff commemorated the anniversary of the Grandest Congress on April 12.
- Staff are busy preparing for the start of the spring/ summer season.

Fountainhead – Kate Irwin, Park Manager

- Held first staff training for new and returning staff with 12 staff attending. Staff were trained in park policies and procedures, customer service, and rental operations.
- Hosted a level two training for NOVA Parks customer service champions.
- The marina building and boat rentals opened for the season on March 9. With the warm weather, boat rental revenue is up over 100% from March 2024.
- Hosted the first two Fountainhead Bass Club tournaments of the season.



Meadowlark Atrium – Wayne Hager, Atrium Facilities Manager

- In the month of March, The Atrium hosted 13 events.
- We had 11 Wedding/Wedding Receptions, 1 Celebration of Life and 1 Garden Club Meeting.
- All events were catered by Great Blue Heron Catering except the District III Garden Club and all the events were well received.
- We've been keeping busy with 45 Site Tours and 21 Pre-Event Walk-Through meetings.
- Park patrons and Atrium guests are really enjoying our Cherry Blossoms, Sugar Magnolia, and other Spring blooms.

Meadowlark Botanical Gardens – Jeff Hill, Botanical Gardens Manager

- Horticulture Department planted 15 new cherry trees throughout the garden as a part of the Cherry Tree Succession Plan.
- The entire Peony Collection has been moved to a more suitable location in the gardens.
- Work continues on importing plant data into our plant database and strengthening our plant signage throughout the gardens.
- Created a grouping of “did you know” signs to be used with a variety of facts about things guests may see in the gardens.
- Manager and Events team attended several online event software trainings.
- Manager attended the final Mentor/Mentee meeting hosted at The Atrium.
- Staff hosted a welcome back gathering for the volunteers to kick off the growing season.
- We welcomed our first grant awarded Title I schools into the gardens this month. We are excited for the rest of the scheduled visits.
- We hosted 250 attendees from NAKS Greater Washington Korean School visiting the Korean Bell Garden.
- Cherry Blossoms reached their peak the last week of March, and we enjoyed increased visitation as expected.
- Food truck is in place now to offer additional food purchase options for our guests.
- Brendan Sweeney, new full-time Park Maintenance Worker, re-joins the team.
- Work continues on various capital projects throughout the gardens.



Occoquan – Matthew Taylor, Park Manager

- Batting cages opened for the season on March 15.
- Park Specialist Chris Gaul and I attended the Occoquan River Safety Meeting in the Town of Occoquan. Representatives from local fire and police departments from Fairfax and Prince William, members of the US Coast Guard, and staff from local marinas attended the meeting which covered topics about promoting and enforcing safety measures to keep boaters and paddlers safe on the Occoquan River.
- In preparation for the start of the boat rental season, we hosted several members of the US Coast Guard Auxiliary to perform a pre-season safety check on the kayak fleet.
- Thousands of people visited the park during the afternoon and evening on March 30, to celebrate the Eid holiday.

The River View at Occoquan – Hannah Fry, Hospitality & Event Sales Manager

- In March we hosted three weddings, one corporate anniversary event, the NOVA Parks annual all staff meeting and an annual installation of officers banquet. It was their third-year hosting at The River View and they will be back next year!
- We conducted nearly 60 scheduled tours and multiple walk-in tours.
- We hosted our first Venue Extended Hours of the year and invited potential couples to view the venue in an informal setting after our normal hours.

Piscataway Crossing – Ben Bilko, Park Manager

- We are starting to see some visitors with the spring weather.



Pohick Bay Park – Brad Jackson, Park Manager

- Waterpark Capital Maintenance work is underway, including repainting the main play feature and various repair work ahead of the 2025 aquatic season.
- The campground water service extension to 25 new sites has been completed and guests have been occupying them regularly. The Family Campground now has a total of 39 Water & Electric sites, expanding more availability to recreational vehicle camping.
- Paving work in the campground and Marina Launch parking lots is beginning and will be completed for April usage.
- Aquatics staff attended the lifeguard instructor standardization training led by NOVA Parks' Aquatics Manager.
- The US Coast Guard Auxiliary Program inspected the rental fleet for safety and quality standards.
- Cleanup and other preseason preparations are underway as we open picnic rental shelters for the season.
- Scout Troop 118 conducted a shoreline cleanup with 30 scouts helping clean the park and its waterway.

Pohick Bay Golf Course – Jon Mendez, Assistant Park Manager

- Pohick Bay Golf Course hosted a First Aid and CPR Training at the Pro Shop for the month of March.
- Pohick Management Staff attended the Annual All Staff Meeting at Occoquan.
- Golf Committee met with Gallus App Consultant to discuss new updates for the 2025 season.

Potomac Overlook – Rachel Doody, Park Manager

- Staff lead the last meeting for this past round of the NOVA Parks' Mentor program participants at The Atrium where the pairs competed in a water bottle rocket launch activity. John Evjen and Skyler Williams won the competition with a launch over 80 ft.
- Spring public and private programs ramped back up in March. Badge-specific Girl Scout programs on Sundays included Animal Habitat, Rock the Park, Camping 101 and EcoLearner. Public programs included Raptors of the Potomac and Frog Frenzy.
- Public and private school field trips in March included students from Abington ES, Tuckahoe ES (outreach Raptor program), Leesburg ES and Jefferson Houston MS, who received grants from the NOVA Parks Outdoor Kids Fund.
- Staff are working hard on the Snake Exhibit renovation capital improvement project, which includes enlarging and adding to all the snake enclosures in the Nature Center.
- The Roving Naturalists helped to lead school field trips at Potomac Overlook for Jefferson Houston MS and Leesburg ES, which received a grant from the Outdoor Kids Fund
- Roving Naturalists' public programs in March included Slitherin' Salamanders at Bull Run, Owl Prowls at Algonkian and Potomac Overlook, Talkin' Bout Turtles at Potomac Overlook, a lunar eclipse program at Gilbert's Corner, Tapping into Nature: a Woodpecker Discovery Walk at Bull Run, Cherry Blossom Photo Workshops and Critter Corners at Meadowlark, and Slithering Tales at Reservoir Park.
- Matt Felperin also led a Warbler talk for the Northern Virginia Bird Alliance in March.



Red Rock – Ben Bilko, Park Manager

- Staff have been conducting trail and park cleanups after the long winter.

Reservoir Park at Beaverdam – Dustin Betthauser, Park Manager

- Water access reopened on March 1, allowing public boaters to return to the water
- For the first time, scholastic rowing teams began on-water practice, gaining valuable experience in coordinating and operating their practice schedules as well as use of the boathouse.
- The rental building and fleet were prepared for opening weekend. Rentals launched on March 29 with outstanding results: 81 rentals totaling 102 hours on the water, and an excellent performance from new staff.
- The first youth fishing derby program was held, attracting participants despite the cold March weather.
- Five pavilion rentals were booked, providing sheltered spaces for events and gatherings.
- The park's Customer Service Champion attended the "Train the Trainer" Level 2 program, focusing on empowering frontline staff for success, to enhance the overall visitor experience.

Rust Manor – Alexandra Gordon, Facility and Event Sales Manager

- Rust Manor House is in the full swing of event season. A total of 11 events are taking place in April.
- Our calendar is full with walkthroughs, tours, vendor appointments, tastings, and styled shoots.
- Amelia and Alexandra have been busy behind the scenes, continuing to clean up systems and processes to become more efficient.
- Our maintenance team has been busy mulching, pruning, and weeding around the property. We also had work done to our iconic Boxwoods that serve as the backdrop to many of our events.
- The Rust Manor House team is looking forward to attending an upcoming rental showroom event at the end of April! A few preferred vendors will share their new inventory.

Sandy Run – Kate Irwin, Park Manager

- Hosted two Virginia Scholastic Rowing Association (VASRA) regattas; the Polar Bear regatta with 26 teams and the Walter Mess Regatta with 33 teams.
- Hosted the George's Cup regatta with George Mason, Georgetown, and George Washington Women's Rowing. George Washington took home this year's cup.
- Hosted a dual meet between Georgetown and Harvard women.
- Park Manager attended VASRA Board meeting and Local Organizing Committee meeting.
- IT worked with VASRA to improve internet at the finish line building.

Temple Hall – Ben Bilko, Park Manager

- Staff have been cleaning up after the winter and the farm has opened for the season.
- Legacy Farms has concluded their winter programming and is working hard in the garden to plant this year's spring and summer flowers with volunteers and apprentices.





Upton Hill – Evan McGurrin, Park Manager

- Climb UPTon served 270 climbers for the month of March.
- Climb UPTon has introduced a wide selection of new branded retail products.
- Thanks to grant funding from the Tree Stewards of Arlington & Alexandria, along with the Northern Virginia Bird Alliance, our Arlington Master Naturalist Steward has coordinated the planting of approximately 200 bareroot understory trees around the park.
- The annual waterslide refurbishment has been completed, and contractors are beginning work on miscellaneous repairs to the main pool.

Winkler Botanical Preserve – Rachel Doody, Park Manager

- Staining and repairs to the front stairs, back ramp, and side porch of the lodge have been completed.
- New learning center for summer campers, school groups, and public programs has been designed and installed by an Eagle Scout.
- Winkler staff are preparing for this spring break's new scavenger hunt, the Sasquatch Count, where participants have the chance to win a weekend long stay in a family cabin at Pohick Bay.
- Staff continue to prepare for and promote summer camps and have completed hiring for the camp counselors for this year.
- Winkler also hosted a gathering of all NOVA Parks Summer Camp management staff for a Camp Activity Potluck, where individuals from the three camps shared activity, game, and craft ideas on a wide variety of topics.

W&OD Trail – Ryan Corder, Park Manager

- Partnered with Sustainability Matters, Loudoun Water, and Trailside Middle School to plan a wildflower meadow planting along the Trail.
- Put in a new story walk book along the trail at Trailside Middle School.
- Park Manager attended a luncheon hosted by the Friends of the W&OD and Trail Patrol leaders.
- Reviewing mowing contracts for upcoming season.
- Maintenance staff is busy with spring clean-up tasks.

