



Department of
Environmental
Conservation

VANDERWHACKER MOUNTAIN WILD FOREST

and

**BOREAS PONDS PRIMITIVE AREA
STATE ADMINISTRATIVE AREAS**

Amendment

to the

2005 Vanderwhacker Mountain Wild Forest Unit Management Plan

River Area Management Plans

for the

Hudson River and Opalescent River



NYS DEC, REGION 5, DIVISION OF LANDS AND FORESTS

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MEMORANDUM

JUL 26 2018

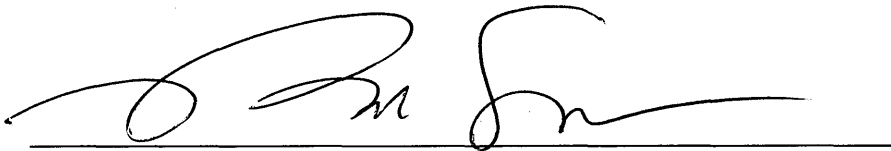
TO: The Record

FROM: Basil Seggos

SUBJECT: Vanderhack Mountain Wild Forest Unit Management Plan Amendment

The Amendment to the 2005 Vanderhack Mountain Wild Forest Unit Management Plan has been completed. The Adirondack Park Agency has found the Amendment to be in conformance with the Adirondack Park State Land Master Plan.

The Amendment is consistent with Environmental Conservation Law, and Department Rules, Regulations and Policies and is hereby approved and adopted.



Basil Seggos
Commissioner
New York State Department of Environmental Conservation

Date: 7/26/18

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Adirondack Park Agency

SHERMAN CRAIG
Chairman

TERRY MARTINO
Executive Director

RESOLUTION ADOPTED BY THE ADIRONDACK PARK AGENCY WITH RESPECT TO THE VANDERWHACKER MOUNTAIN WILD FOREST UNIT MANAGEMENT PLAN AMENDMENT

July 13, 2018

WHEREAS, Section 816 of the Adirondack Park Agency Act (APA Act) directs the Department of Environmental Conservation (Department) to develop, in consultation with the Adirondack Park Agency (Agency), individual management plans for units of land classified in the Adirondack Park State Land Master (APSLMP) and requires such management plans to conform to the guidelines and criteria of the APSLMP; and

WHEREAS, in addition to such guidelines and criteria, the APSLMP prescribes the contents of unit management plans (UMPs) and provides that the Agency will determine whether a proposed individual UMP complies with such guidelines and criteria; and

WHEREAS, the Department prepared a UMP for the Vanderwhacker Mountain Wild Forest (VMWF) in 2005, which was amended in 2015 and 2016; and

WHEREAS, the Department has prepared an amendment to the 2005 UMP, dated July 2018 (VMWF UMP Amendment); and

WHEREAS, the VMWF UMP Amendment proposes “additional recreational opportunities and facilities within and adjacent to the recently-classified wild forest and primitive lands of the Boreas Ponds and MacIntyre East Tracts in a manner that maximizes enjoyment and appreciation of the Forest Preserve while continuing to preserve and protect its natural resources;” and

WHEREAS, on May 10, 2018 the Department presented a draft of the VMWF UMP Amendment to the Agency; and

WHEREAS, the Agency and the Department established a concurrent 45-day public comment period on the draft UMP amendment and its conformance with the APSLMP, which ran through June 27, 2018, and the Department held three public meetings during the comment period in Albany, Newcomb and Lake Placid; and

WHEREAS, the Agency and the Department received a substantial number of written and oral comments during the public comment period; and

WHEREAS, the Department revised the draft VMWF UMP Amendment in response to some of the public comments received, and the Agency has considered those revisions; and

WHEREAS, the public comments raised several points with respect to conformance of the VMWF UMP Amendment with the APSLMP guidelines and criteria for the management and use of Wild Forest lands and Agency staff have provided responses to those public comments for Agency consideration; and

WHEREAS, the proposed Newcomb to North Hudson Community Connector Trail will be sited and constructed to Class II snowmobile trail standards outlined in the 2009 Snowmobile Management Guidance: Snowmobile Trail Siting, Construction and Maintenance on Forest Preserve Lands in the Adirondack Park; and

WHEREAS, the proposed Gulf Brook and Blue Ridge mountain bike trail networks will be sited, constructed and maintained in substantial conformance with the 2018 Management Guidance: Siting, Construction and Maintenance of Singletrack Bicycle Trails on Forest Preserve Lands in the Adirondack Park; and

WHEREAS, the Agency and the Department have recommitted to form a working group focused on developing management recommendations for technical climbing access within the Adirondack Forest Preserve including the use of fixed anchors, climbing access trails, and other best practices that can aid in the protection of sensitive resources where technical rock and ice climbing are taking place; and

WHEREAS, to ensure protection of natural resources and the wild forest character of the VMWF lands, the VMWF UMP Amendment proposes a phased approach for the implementation of facilities, guided by a Wildland Monitoring Program; and

WHEREAS, the Agency and the Department are committed to immediately forming a working group which will develop a Wildland Monitoring Plan within two years with an opportunity for public involvement; and

WHEREAS, the Agency, in consultation with the Department, is engaged in a process that will lead to an Agency APSLMP interpretation regarding road mileage in Wild Forest Areas of the Forest Preserve. This interpretation, once finalized by the Agency, will apply to all Wild Forest UMPs; and

WHEREAS, pursuant to the State Environmental Quality Review Act, the Department has determined that the VMWF UMP Amendment will not have a significant

adverse impact on the environment and filed notice thereof in the Environmental Notice Bulletin on July 11, 2018; and

WHEREAS, the Agency has considered the foregoing recitals, the proposed VMWF UMP Amendment, the July 5, 2018 Memorandum from Kathy Regan to Terry Martino, Agency and Department staffs' July 12, 2018 presentation, public comment and Agency and Department staffs' responses, and the deliberations of Agency Board Members and Designees at the Agency's July 12-13, 2018 meeting.

NOW, THEREFORE, BE IT RESOLVED that pursuant to Section 816 of the Adirondack Park Agency Act, the Agency finds the proposed VMWF UMP Amendment, dated July 2018 conforms with the APSLMP guidelines and criteria for Wild Forest lands; and

BE IT FINALLY RESOLVED that the Agency Board authorizes its Executive Director to advise the Commissioner of Environmental Conservation of the Agency's determination in this matter.

Ayes: Sherm Craig, Chad Dawson, Karen Feldman, Art Lussi, Dan Wilt, Lynne Mahoney, Brad Austin, Bob Stegemann

Nays: None

Abstentions: John Ernst

Absent: William Thomas

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Contents

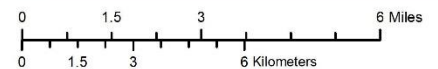
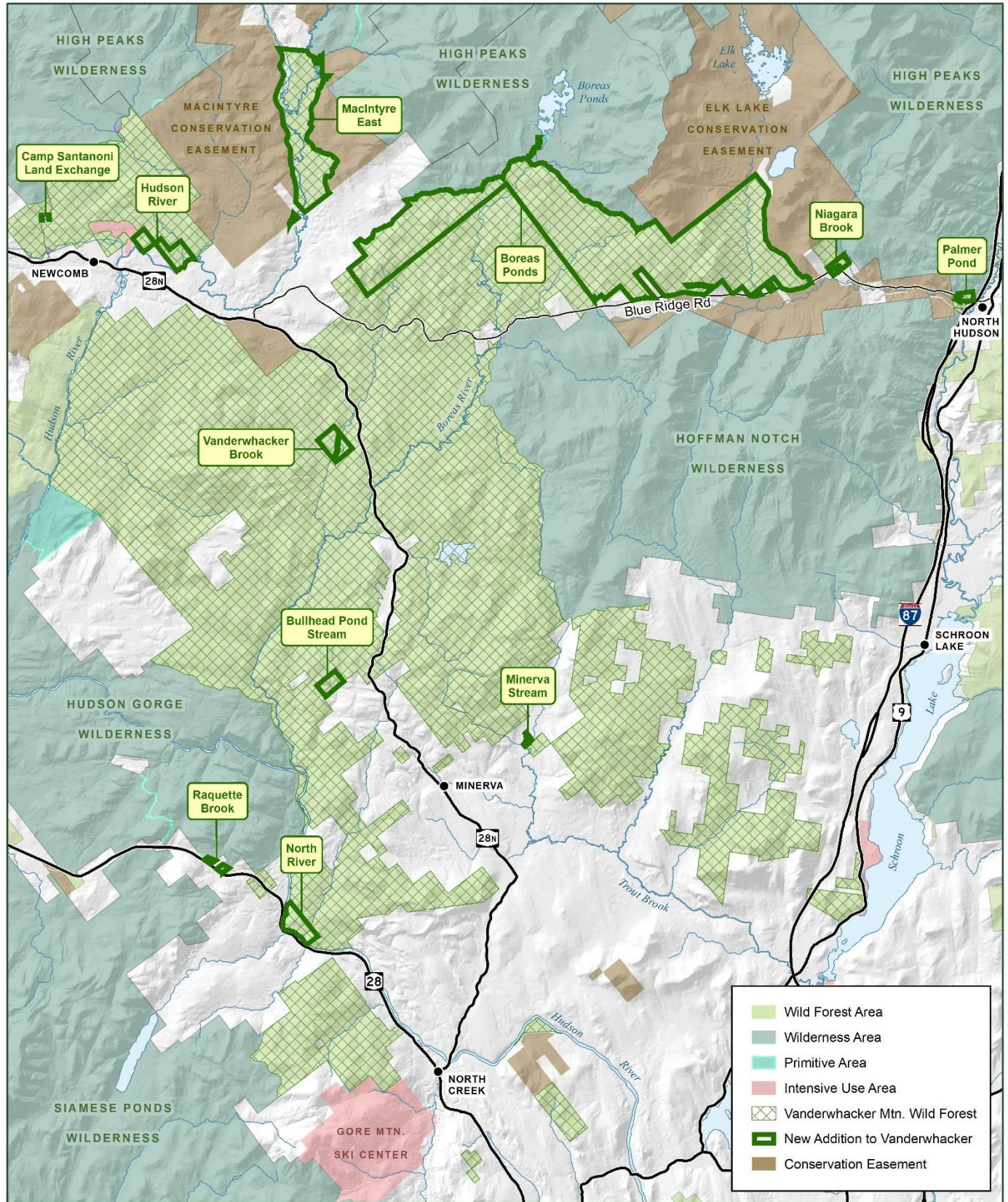
I. Introduction	1
A. Purpose of the Amendment.....	1
B. Planning Area Overview.....	3
C. Public Participation and Planning Process.....	6
D. General Guidelines and Objectives for Management of the Unit	8
II. Natural Resources.....	11
A. Soils	11
B. Topography	11
C. Water Resources	12
D. Vegetation	20
E. Wildlife.....	26
F. Fisheries.....	42
III. Recreational Resources and Human Uses	43
A. Carrying Capacity	44
B. Signage and Education	60
C. Roads.....	61
D. Motorized Access and Parking.....	66
E. Bridges, Culverts, and Dams.....	77
F. Paddling/Hand Carry Boat Launches.....	80
G. Access for People with Disabilities.....	87
H. Day Use Areas	90
I. Trail Recreation	94
J. Snowmobile (Multiple-Use) Trails	104
K. Hiking and Snowshoeing.....	108
L. Cross-Country Skiing.....	111
M. Bicycling	114
N. Equestrian Use.....	118

Contents

O. Rock and Ice Climbing	121
P. Fishing	124
Q. Hunting and Seasonal Access	125
R. Camping.....	127
S. Use Reservations	133
T. Historic Boreas Cabin	134
U. Phases of Implementation.....	139
Appendix A – Management and Policy Considerations.....	151
Appendix B – Discussion of Alternatives	163
Appendix C – Pond Narratives	175
Appendix D – OPRHP Consultation.....	177
Appendix E – Trail Classifications.....	179
Appendix F – Response to Public Comment	181

Vanderwhacker Mountain Wild Forest

Overview



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I. Introduction

A. Purpose of the Amendment

In 2015 the State of New York purchased the 6,060-acre MacIntyre East Tract. The following year, the State acquired the 20,430-acre Boreas Ponds Tract. These two parcels were the final pieces of a multi-phased acquisition from The Nature Conservancy of 65,000 acres of former Finch-Pruyn lands.

As both the largest and final parcel to come into public ownership, and because of the allure of the property's namesake, the Boreas Ponds Tract has garnered significant attention from local government, interest groups and the public alike. To accommodate this public interest in a manner that continued to protect the property's natural resources, the Department provided limited public access to the tract soon after it was acquired by the State. This included parking in several locations, bicycle and equestrian opportunities on a limited number of existing roads, and informal camping, hiking and paddling throughout the tract.

In February 2018, the Adirondack Park Agency (APA) recommended, and the following month Governor Andrew Cuomo approved, a land classification package that added portions of the Boreas Ponds and MacIntyre East tracts—totaling over 10,000 acres—to the Vanderwhacker Mountain Wild Forest.

The purpose of this Unit Management Plan (UMP) amendment is to propose additional recreational opportunities and facilities within and adjacent to the recently classified wild forest and primitive lands of the Boreas Ponds and MacIntyre East Tracts in a manner that maximizes enjoyment and appreciation of the Forest Preserve while continuing to preserve and protect its natural resources.

While the Boreas Ponds themselves were added to the High Peaks Wilderness Area, primary access to the ponds originates from the Gulf Brook and Boreas Roads in the Vanderwhacker Mountain Wild Forest and Boreas Ponds Primitive Area. As such, consideration for access to the High Peaks Wilderness Area is given in this UMP amendment. An amendment to the High Peaks Wilderness Area UMP will more specifically address the type and extent of recreational facilities in the High Peaks Wilderness Area, including those related to the Boreas Ponds. Both the Vanderwhacker Mountain and High Peaks UMP amendments discuss the Boreas Ponds Primitive Area to highlight the interface between the units, however

I. Introduction

authorizations for management actions within the Boreas Ponds Primitive Area will occur in this Vanderwhacker Mountain UMP amendment.

Eight smaller tracts have also been recently added to the Vanderwhacker Mountain Wild Forest, and this amendment proposes minor access-related improvements to several of them.

As explained in further detail in the following sections of this plan, the following management actions are proposed:

- Establishing mountain bike, equestrian, hiking and skiing opportunities within the tracts;
- Designating routes for public motor vehicle access, including parking;
- Selecting a preferred alternative for the community connection discussed in the 2015 Community Connector Trail Plan for the multiple-use trail that connects North Hudson and Newcomb;
- Maintaining 9.0 miles of Forest Preserve road for motor vehicle access opportunities;
- Maintaining 3.4 miles of additional Forest Preserve roads for seasonal access and camping during big game hunting season;
- Providing access for persons with disabilities to hand-carry launches, equestrian facilities, and designated tent sites along several roads;
- Enhancing paddling opportunities, including providing a hand-carry launch on LaBier Flow and along the Hudson River;
- Designation of various camping opportunities throughout the tract including roadside, primitive, and water access;
- A proposal to maintain the historic cabin at the Four Corners and evaluate potential future administrative uses until a final disposition for the structure is determined; and
- Designating singletrack mountain bike networks.

This document also serves as a River Area Management Plan pursuant to the New York State Wild, Scenic and Recreational Rivers System Act (WSRRA) and its implementing regulations (6 NYCRR Part 666). The Opalescent River is designated as a Wild River where it passes through the Vanderwhacker Mountain Wild Forest. The Hudson River, south of its junction with the Opalescent River, is designated a Recreational River where it passes through or borders the MacIntyre East and Hudson River tracts. Any proposals found in this amendment that fall within the River Areas (½ mile from the bank of each designated river) are compliant with the WSRRA and its implementing regulations.

B. Planning Area Overview

Description of Unit

The Vanderwhacker Mountain Wild Forest lies within the counties of Essex, Warren, and Hamilton in the central Adirondacks. Including the recently classified parcels, the unit is made up of almost three dozen parcels containing approximately 104,347 acres.

In the 2018 APA land classification package, approximately 11,312 acres of the northern portion of the Boreas Ponds Tract were classified as Wilderness and added to the High Peaks Wilderness Area, with the remaining 9,118 acres to the south were added to the Vanderwhacker Mountain Wild Forest. The Wilderness and Wild Forest boundary is generally 500 feet north of Gulf Brook and Boreas Roads. The lands between Gulf Brook Road and Elk Lake Road along with a 75 foot wide corridor that follows the northern spur of Boreas Road to within 0.1 miles of the Boreas Ponds Dam were also classified as Wild Forest. An 11-acre Primitive Area known as the Boreas Ponds Primitive Area was also formed around the dam site at the outlet of Boreas Ponds. Located in the towns of North Hudson and Newcomb in Essex County, this newly classified Vanderwhacker Mountain Wild Forest parcel is primarily bounded on the south by Blue Ridge Road, the east by the Elk Lake Conservation Easement and Elk Lake Road, and to the north by the High Peaks Wilderness.

The MacIntyre East Tract was also classified in a manner similar to the Boreas Ponds Tract, with approximately 1,799 acres of the southern part of the parcel classified as Wild Forest and added to the Vanderwhacker Mountain Wild Forest, while 4,418 acres to the north was classified as Wilderness and added to the High Peaks Wilderness. The entire Wild Forest section of MacIntyre East is located in the Town of Newcomb in Essex County, bounded by the Tahawus Road to the west, the Upper Hudson Woodlands Conservation Easement to the east, and other private landowners to the north and south. Notably located at the center of this parcel is the confluence of the Hudson and Opalescent Rivers. A rail corridor also bisects the Wild Forest section of the parcel in a north-south orientation.

Eight other acquisitions and one reclassification were also added to the Vanderwhacker Mountain Wild Forest in the 2018 APA land classification package:

- The 47-acre **Palmer Pond Tract** was purchased in 2006 and is located in the Town of North Hudson, Essex County, immediately west of the Adirondack Northway, bordering Blue Ridge Road on the south, Palmer Pond on the west, and the High Peaks Wilderness Area on the north and east.

I. Introduction

- The 66-acre **Niagara Brook Tract** was part of the larger Finch Acquisition and was sold to the State of New York in 2009. This tract is located on both the north and south side of Blue Ridge Road approximately 3.5 miles west of the Adirondack Northway in the Town of North Hudson, Essex County. The tract is bounded by Vanderwhacker Mountain Wild Forest and the High Peaks Wilderness Area to the north and private lands to the south.
- The 287-acre **Hudson River Tract**, formerly a Finch parcel, was purchased by the State of New York in 2014 from The Nature Conservancy in 2014. The parcel is located in the Town of Newcomb, Essex County, and is made up of two land parcels that share a common corner. The western parcel is located at the northwestern end of Campground Road in the Town of Newcomb. Campground Road makes up the majority of the southern boundary, the Lake Harris Campground makes up half of the western boundary with the other half bordering Vanderwhacker Mountain Wild Forest. Vanderwhacker Mountain Wild Forest also borders the parcel to the north and private lands border to the east. The Newcomb River flows through the middle of the easternmost parcel and also includes the confluence of the Newcomb and Hudson River. The parcel also borders approximately one half of a mile of Hudson River on the south. It also borders private lands to the south and west and the northern borders are shared with previously existing Vanderwhacker Mountain Wild Forest.
- The 202-acre **Vanderwhacker Brook Tract**, formerly a Finch parcel, was purchased from the Open Space Conservancy in 2013. The tract is located on both the east and west side of the Iowa Pacific railroad line and the Boreas River approximately 0.7 miles south of State Route 28N in the Town of Minerva, Essex County.
- The two-parcel, 37-acre **Raquette Brook Tract** is located in the Town of Indian Lake, Hamilton County on the north side of State Route 28 about 2.4 miles north of the Warren County line and Thirteenth Road. The parcels are part of a larger acquisition that abuts existing Forest Preserve land in the Hudson Gorge Wilderness. However, the parcels are divided by privately owned land which contains a power line. The lands northeast of the power line, which abut the Wilderness, were classified as Wilderness and added to the Hudson Gorge Wilderness. The lands south of the power line and north of State Route 28 were classified as Wild Forest and added to the Vanderwhacker Mountain Wild Forest.
- The 13-acre **Minerva Stream Tract** is adjacent to an existing Vanderwhacker Mountain Wild Forest parcel and is located between John Brannon Road and Irishtown Road in the Town of Minerva, Essex County.
- The 114-acre **Bullhead Pond Stream Tract** is located about one half mile north of Northwoods Club Road in the Town of Minerva, Essex County. This is about

one quarter mile east of the privately-owned Bullhead Pond and is bordered on three sides by the Vanderwhacker Mountain Wild Forest.

- The 249-acre **North River Tract** is comprised of several parcels between State Route 28 and the Hudson River near the Hamlet of North River in Warren County, along with two larger parcels on the east side of the Hudson River. These parcels border one another but are split by the border between Essex and Warren Counties.
- A 5-acre land reclassification also occurred that involved the Camp Santanoni Historic Area and Vanderwhacker Mountain Wild Forest. The 2.5-acre farm garden area and orchard located within the Vanderwhacker Mountain Wild Forest were transferred to the Historic Area. In exchange, 2.5 wooded acres of the Historic Area farm complex were transferred to the Vanderwhacker Mountain Wild Forest.

Location and Access

Boreas Ponds Tract:

The primary access to the Boreas Ponds is via Gulf Brook Road, which extends from Blue Ridge Road to the vicinity of LaBier Flow. This Forest Preserve entrance is approximately 5.5 miles from Northway Exit 29, and approximately 17 miles from the Hamlet of Newcomb. The Blue Ridge Parking Area is located about 300 feet in from Blue Ridge Road and can accommodate trailered vehicles or up to 10 cars. This parking area also serves as overflow parking for the Fly Brook Parking Area, and is the only open parking area on Gulf Brook Road during the winter months and mud season. The Fly Brook Parking Area is located approximately 3.4 miles from Blue Ridge Road and can accommodate trailered vehicles or up to 20 cars.

Two additional access points along the Blue Ridge Road corridor are located on Branch Road and Andrew Brook Road. Branch Road runs along the west side of the Branch River north of Blue Ridge Road. An 11-car parking lot which can support trailered vehicles is located at the intersection of Blue Ridge Road and Branch Road. This also serves as the parking area for the Hoffman Notch Trail in the Hoffman Notch Wilderness Area to the south. This parking area is located approximately 4 miles from Northway Exit 29, and 18.5 miles from the Hamlet of Newcomb.

Andrew Brook Road is located on the north side of Blue Ridge Road, approximately 6.5 miles from Northway Exit 29 and 16 miles from the Hamlet of Newcomb. The parking area here is located approximately 500 feet up Andrew Brook Road and can accommodate trailered vehicles or up to 5 cars.

I. Introduction

The eastern side of the Boreas Ponds Tract is bounded by Elk Lake Road, which is a town maintained road. Two parking areas exist here, the first one being approximately 1.8 miles north of Blue Ridge Road and the second being 2.6 miles north of Blue Ridge Rd. The first parking area can support three cars and the second can support trailered vehicles or up to eight cars.

MacIntyre Tract:

The primary entrance to the MacIntyre Tract is via East River Road, located off the Tahawus/Upper Works Road in Newcomb, approximately 4.3 miles north of Blue Ridge Road. East River Road crosses the Hudson River and allows for access to the more eastern portions of the tract. Currently there is not a parking area located here, but later sections of this amendment will describe future management actions.

C. Public Participation and Planning Process

Article 27, Section 816 of the Executive Law (known as the Adirondack Park Agency Act) mandates the Department of Environmental Conservation (Department or DEC) to develop, in consultation with the Adirondack Park Agency (APA), individual unit management plans for each unit of land under its jurisdiction classified in the Adirondack Park State Land Master Plan (APSLMP).

The Department began work on this amendment to Vanderwhacker Mountain Wild Forest UMP in 2018. A planning team, appointed by the Regional Director including Department staff from Fisheries, Wildlife, Forest Rangers, Lands and Forests, and Operations, along with staff from the APA, have gathered and tracked information on various resources and areas over the years.

Unit Management Plan and Amendments

This document is the fourth amendment to the original April 2005 Vanderwhacker Mountain Wild Forest Unit Management Plan and Environmental Impact Statement. The three previous amendments are:

- The Community Connector Trail Plan, adopted in 2015, which selected a preferred route for multiple-use trails connecting the towns of Newcomb, North Hudson, and Minerva;
- An amendment adopted in 2016 that proposed an accessible trail and fishing pier on the shore of Palmer Pond with nearby parking, along with new parking proposals in other areas; and

- The Essex Chain of Lakes Management Complex Plan, also adopted in 2016, which proposed a suite of actions to provide public recreational opportunities on recently-acquired State lands, some of which fall within the Vanderwhacker Mountain Wild Forest. As such, this Plan also acts as an amendment to the Vanderwhacker Mountain Wild Forest UMP.

Interim Access Plan

In August 2016, the Department released an Interim Access Plan for the entire Boreas Ponds Tract, including lands that would later become part of the Vanderwhacker Mountain Wild Forest. The purpose of this plan was to provide limited public access to the property during the interim period between State acquisition and the adoption of a UMP amendment that will authorize additional recreational opportunities.

Scoping/Kickoff Meeting

A public scoping meeting was held on Tuesday April 3, 2018 at the Newcomb Central School in Newcomb NY. Several stations were set up where the public provided sketched proposals on maps and written comments. There was also an opportunity for interested persons to present their thoughts publicly to the Department and the attendees of the meeting. The public comment period following the meeting was open until April 20, 2018. Various ideas were submitted to the Department both at the meeting and through written comments during the public comment period. Several comments about environmental protection and potential recreational opportunities of the area were submitted and considered.

Draft Unit Management Plan Amendment

The Department released the Vanderwhacker Mountain Wild Forest and Boreas Ponds Primitive Area Draft Unit Management Plan Amendment May 10, 2018 at the Adirondack Park Agency Meeting. During the public comment period from May 10th to June 27th three public comment meetings were held. The first was held on May 23, 2018 at 10:00 am at the DEC headquarters, 625 Broadway, Albany NY; the second was May 23, 2018 at 6:00 pm at the Newcomb Central School in Newcomb NY; and the third was June 21, 2018 at 6:00 pm at the Olympic Conference Center in Lake Placid NY. During these meetings a presentation summarizing the major proposals within the Vanderwhacker Mountain Wild Forest and High Peaks Wilderness Area was given, which was followed by an opportunity for interested persons to present their thoughts on the plans publicly to the Department and the attendees of the meeting. Several stations

were also set up where the public had an opportunity to provide sketched proposals on maps and written comments.

D. General Guidelines and Objectives for Management of the Unit

All land covered by this Unit Management Plan amendment is Forest Preserve, and as such, must be managed in a manner consistent with Article XIV, Section 1 of the New York State Constitution. The UMP, and the management recommendations found within, have also been developed pursuant to and consistent with relevant provisions of the following:

- Adirondack Park State Land Master Plan (APSLMP);
- Environmental Conservation Law (ECL);
- Executive Law;
- Department rules, regulations, policies and guidelines,
- State Environmental Quality Review Act (SEQRA); and
- Wild, Scenic and Recreational Rivers Act (WSRRA)

Each sub-section of this amendment contains objectives related to specific uses and/or subjects. The following objectives will apply to the implementation of this UMP as a whole:

- Prepare a work plan for each construction project;
- Consult the Adirondack Park Agency (APA) on projects in accordance with the current DEC/APA Memorandum of Understanding;
- Comply with all applicable laws, regulations, and guidelines;
- Develop long-term partnerships with communities and other stakeholders for the stewardship of the unit.
- Monitor impacts to natural resources within the unit, and where needed, develop appropriate measures to address those impacts.

This amendment will provide the guidance necessary for staff to manage the area in a manner that protects the environment while at the same time providing suitable outdoor recreation opportunities for the public. Without the development and future implementation of the UMP amendment, sensitive environmental resources of the unit could be impacted negatively, resulting in a decrease in the public's enjoyment of such resources. Management of the unit pursuant to a UMP allows the Department to

improve public use and enjoyment of the area, avoid user conflicts and prevent overuse of the resource.

What the UMP Amendment Does Not Do

The proposed management actions identified in this UMP amendment are primarily confined to the Vanderhacker Mountain Wild Forest, within or adjacent to lands that have recently been added to the Forest Preserve. Activities on private property or nearby State lands that are not in the Vanderhacker Mountain Wild Forest are beyond the scope of this document and will generally be discussed only as they relate to uses of, and impacts to, the Vanderhacker Mountain Wild Forest.

In addition, this amendment cannot suggest changes to Article XIV, Section 1 of the New York State Constitution or conflict with statutory mandates or DEC policies. All proposals must conform to the guidelines and criteria set forth in the APSLMP and cannot amend the APSLMP itself.

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II. Natural Resources

A. Soils

From a management perspective, the key characteristic of soil is its erodibility. Highly erodible soils that are subject to intensive use or modified to remove stabilizing elements, such as vegetation, can result in significant soil loss, downslope/downstream sedimentation, and poor trail conditions. All facilities will be laid out to avoid running slopes, and will be constructed and hardened in a manner to avoid erosion to the greatest degree possible.

The vast majority of the soils in the Boreas Ponds Tract are very well drained, rocky, boulder soils that can be susceptible to erosion. Some of the low-lying areas are poorly drained as well. The soils in the area are an important factor to consider when developing trails. When constructing trails, well-drained soils are preferred while long running slopes should be avoided to minimize erosion. The bouldery nature of these soils can sometimes hinder bicycle and snowmobile trail layout, but this further emphasizes the need for proper trail placement and sustainable construction.

The northern portion of the MacIntyre Tract and areas along the outside perimeter of the property features well-drained soils of various type. The bulk of the property lies in the river bottom and is comprised of the Rumney-Burnt Vly Complex and Podunk very fine sandy loam. Both of these are poorly drained and prone to flooding, making trail layout and construction challenging.

B. Topography

The Vanderwhacker Mountain Wild Forest portion of the Boreas Ponds Tract is rolling terrain that generally gains in elevation as it moves north from Blue Ridge Road. Although varied, most of the area is around 2,000 feet in elevation. The Branch is the largest running lowland area on the property, starting at around 1,750 feet in elevation near the Forest Preserve boundary on the northeast side of the tract and descending to approximately 1,200 feet in elevation where it crosses Blue Ridge Road to the south. The Highest Peak is Ragged Mountain, standing 2,700 feet in elevation. Another unnamed peak on the far western end of the tract above Vanderwhacker Pond tops out at approximately 2,680 feet. Overall the topography lends itself well to having a balance of upland hardwood forests as the elevation ascends and lowland boreal wetland forests in the drainages and low lying areas throughout the tract.

II. Natural Resources

The Vanderwhacker Mountain Wild Forest portion of the MacIntyre East Tract is a river bottom which is largely a low-lying floodplain developed by the Hudson and Opalescent Rivers. The area supports various wetland communities like boreal forests and open sedge-shrub-sphagnum communities.

C. Water Resources

Watercourses

The Boreas and MacIntyre Tracts are both part of the Hudson River Watershed, but there are three smaller watersheds within this area. The MacIntyre Tract is very near the source of the Hudson River, and as such is near the upper end of the watershed. To the east, the Boreas River drains the majority of the Boreas Ponds Tact. The Boreas eventually joins the Hudson near the hamlet of North River. Further east, is a river simply named The Branch, which drains Elk Lake, Clear Pond, and the eastern side of Boreas Mountain. The Branch eventually flows into the Schroon River in North Hudson, and the Schroon eventually drains into the Hudson in Warrensburg in Warren County.



LaBier Flow from LaBier Dam

As mentioned in the Introduction, pursuant to the Wild, Scenic and Recreational Rivers System Act (WSSRA), the Opalescent River is designated as a Wild River where it passes through the Vanderwhacker Mountain Wild Forest. The Hudson River, south of its junction with the Opalescent River, is designated a Recreational River where it passes through or borders the MacIntyre East and Hudson River Tracts.

Ponded Waters

Boreas Ponds Tract:

The Vanderwhacker Mountain Wild Forest portion of the Boreas Ponds Tract includes the southern half of LaBier Flow. This in its natural state is the Boreas River, however in the late 1800's a flush dam was constructed on the southern end of what is now

LaBier flow by Finch Pruyn. Firm records of an exact year the dam was installed do not seem to exist, but anecdotal information suggests it may have been in place and used as early as 1889, 27 years prior to the construction of the better-known Boreas Dam. The flush dam was used many times over the years to help flush logs down the Boreas River eventually bringing them to Glens Falls where they were utilized by the Finch Pruyn mill. This was eventually replaced with the more permanent steel dam still present today. The water level fluctuates throughout the year but LaBier flow consists of approximately 25 acres of ponded water on the Boreas River.

MacIntyre Tract:

The Vanderwhacker Mountain Wild Forest portion of the MacIntyre East Tract encompasses most of Sanford Lake. Although more of a large Stillwater on the Hudson River, it does encompass approximately 120 acres.

Wetlands

The APSLMP (2016, page 20) defines a wetland as:

“...any land that is annually subject to periodic or continual inundation by water and commonly referred to as a bog, swamp, or marsh, which is (i) one acre or more in size, or (ii) located adjacent to a body of water, including a permanent stream, with which there is a free interchange of water at the surface, in which case there is no size limitation, and which (iii) meet the technical definition of 578.3(r) of the Adirondack Park Agency Rules and Regulations”.

As is true for much of the Adirondack Park, wetlands in the unit are common in the low-lying, flat areas between hills and mountains where runoff from steep slopes and groundwater seepage collects and is sometimes confined before entering drainage systems. These areas are commonly referred to as headwater wetlands and are often the origins of streams. Many of these headwater wetlands have been created, expanded, and modified by beaver dams. In most cases, the dams raise the water level, flooding adjacent upland areas. Depending on the length of time the dams are maintained, these upland areas can eventually become wetlands, creating hydric soils and supporting water tolerant vegetation. Remnants of the upland community are often apparent in these wetlands and may include dead trees such as spruce and fir. Other wetlands within the tract occur along the floodplains of streams and rivers and within and adjacent to deepwater habitats of ponds.

II. Natural Resources

Forested evergreen wetlands, typically dominated by balsam fir and spruce species, are the most prevalent wetland cover type on the Boreas and MacIntyre Tracts of the Vanderwhacker Mountain Wild Forest. Significant examples of these lowland Boreal Communities are along the Hudson, Opalescent, and Boreas Rivers.

Wetlands of the Vanderwhacker Mountain Wild Forest present both opportunities and challenges to the public. They have great aesthetic value and offer considerable opportunity for study and general education. For visitors, the expanses of open space provided by wetlands supply much-needed visual contrast to the heavily forested settings that dominate much of the unit. Because they constitute one of the most productive habitats for fish and wildlife, wetlands afford abundant opportunities for fishing, hunting, trapping, and wildlife observation and photography. On the other hand, wetlands are generally ecologically sensitive and are not conducive to heavy recreational use. Trails placed adjacent to wetlands are often plagued by seasonal wet spots and locations for new facility development (e.g. trails, primitive campsites, and lean-tos) are often limited by the presence of wetlands.

Other important ecological functions of wetlands include water quality improvement, stormwater attenuation, nutrient cycling, and habitat for threatened and endangered species. In their capacity to receive, store, and slowly release rainwater and meltwater, wetlands protect water resources by stabilizing flow rates and minimizing erosion and sedimentation. Many natural and man-made pollutants are removed from water entering wetland areas. Some of the threatened and endangered species and species of special concern which may utilize wetlands in the unit include the common loon, bald eagle, osprey, tiger beetle, snaketail and clubtail dragonflies, and bog turtle. Wetlands also may contain a number of rare, threatened and endangered plants including the swamp pink and numerous sedges.

Aquatic Invasive Species

With over 2,300 lakes and ponds, 1,500 miles of rivers, 30,000 miles of brooks and streams, the Adirondack region is particularly vulnerable to the introduction of aquatic invasive species (AIS). AIS can cause harm to the environment, human health, and the economy of a region and can arrive via many pathways, including intentional introduction (aquaria dumping), cargo transport, and shipping ballast. Once established, AIS can spread rapidly through connecting waterways or by “hitchhiking” not only on the propellers, trailers, rudders, motors, etc. of the vessels of recreational boaters and anglers but also on equipment (trailers, waders) and non-motorized watercraft (kayaks, canoes, and floats).

In 2010 the Department and the Adirondack Park Agency developed Inter-Agency Guidelines for Implementing Best Management Practices to Control Invasive Species on DEC Administered of the Adirondack Park. (See appendix A). These Guidelines provide a template for the process through which comprehensive active terrestrial and aquatic invasive species management will take place on Forest Preserve lands in the Adirondack Park. The Department shall be responsible for management of terrestrial and aquatic invasive species on Forest Preserve lands while the Agency will be responsible for providing review of, and advice on, APSLMP compliance and permit jurisdiction. The Guidelines are a dynamic document and are periodically revised to reflect new invasive species threats, continuing inventory of the Forest Preserve, and evolving invasive species management techniques.

Efforts should be made to restore and protect the native ecological communities in the Vanderwhacker Mountain Wild Forest through early detection and rapid response efforts to eradicate or control existing or newly identified invasive species populations. Adoption of the Guidelines and implementation through the UMP and site specific work planning process, gives the Department the basic tools needed to preserve, protect and restore the natural native ecosystems of the Forest Preserve.

This UMP proposes several water access sites for the launching of non-motorized watercraft.

Proposed Management

Objectives

- Prevent the introduction and spread of AIS into and within the Adirondack region
- Protect native aquatic species and their habitats
- Protect water-based recreational resources and economy
- Educate recreational watercraft operators on steps they need to take to prevent the spread of AIS and help them understand new regulations requiring them to take such precautions at all public waters
- Foster a sense of responsibility in watercraft operators so they take steps to help stop the spread of AIS
- Protect New York citizens' investment in publicly-owned waters

Action Steps

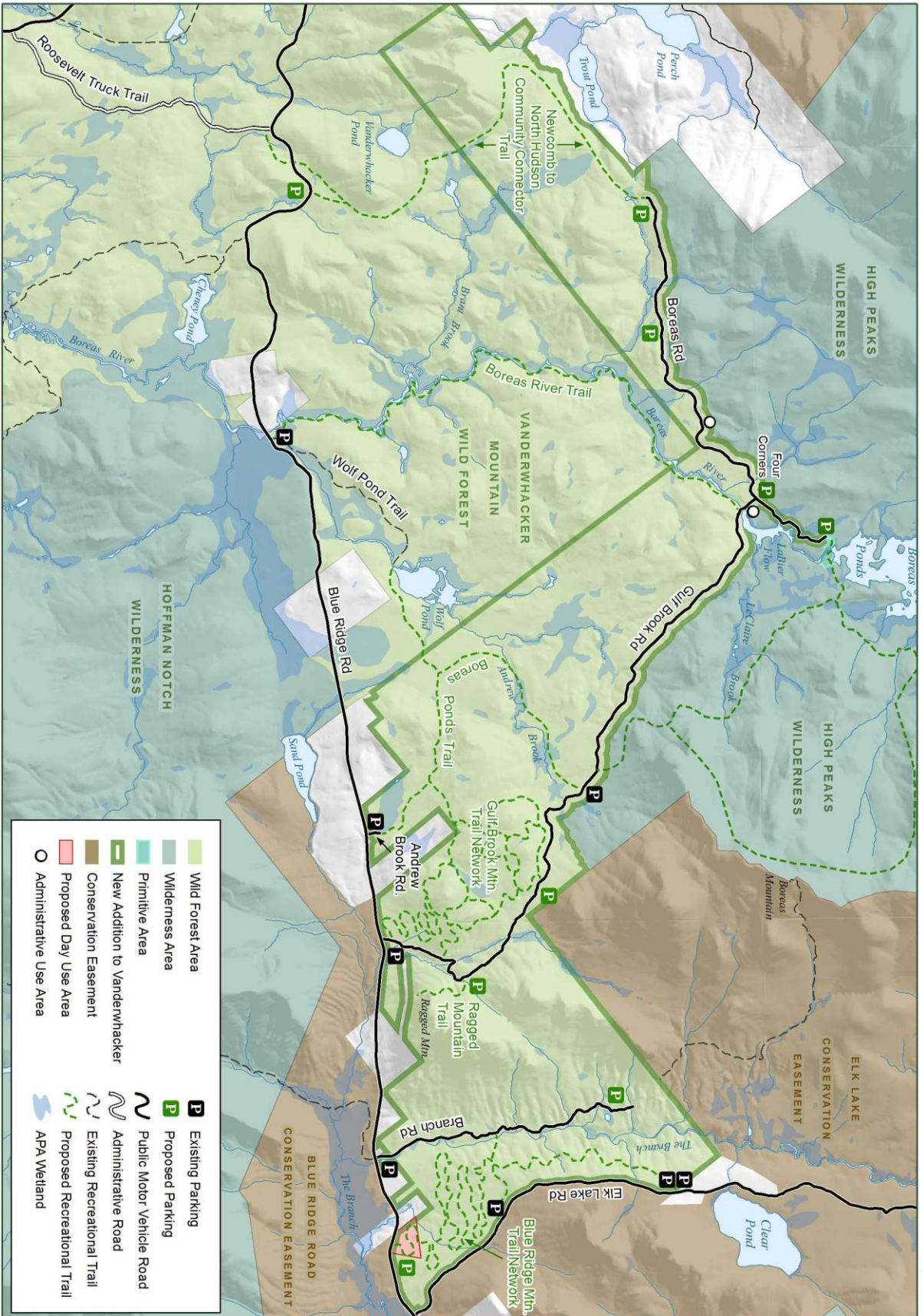
- Take aquatic invasive species spread prevention actions within the unit. These measures will vary based on location within the following spectrum:
 - Make printed materials available at water access locations

II. Natural Resources

- Post signs about the dangers of spreading AIS
 - Provide information regarding nearby boat decontamination stations
 - Deploy stewards at boat launches to provide education and outreach and voluntary inspections for boaters
- Manage aquatic invasive species pursuant to Inter-Agency Guidelines for Implementing Best Management Practices for the Control of Terrestrial and Aquatic Invasive Species on Forest Preserve Lands in the Adirondack Park.
- Partner with those organizations involved in fighting invasive species on Forest Preserve lands.
- Train Department staff to identify and document the location of aquatic invasive species.
- When Department staff or partner organizations are engaged in on-site outreach and education, ensure they have proper training for the prevention of AIS
- Work towards a complete comprehensive inventory of the presence and extent of aquatic invasive species in the unit.

Vanderwhacker Mountain Wild Forest - Boreas Ponds Tract

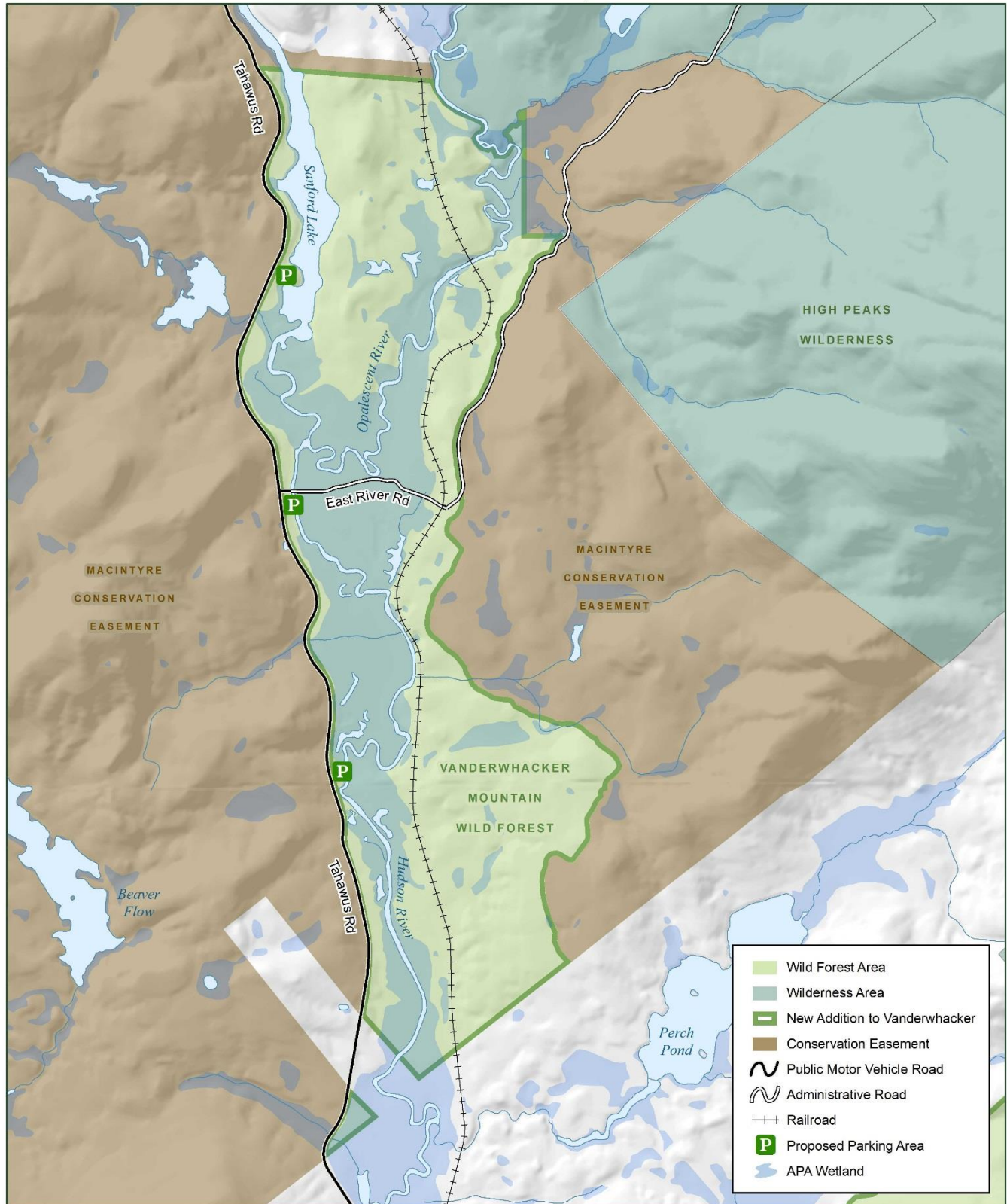
Wetlands



II. Natural Resources

Vanderwhacker Mountain Wild Forest - MacIntyre East Tract

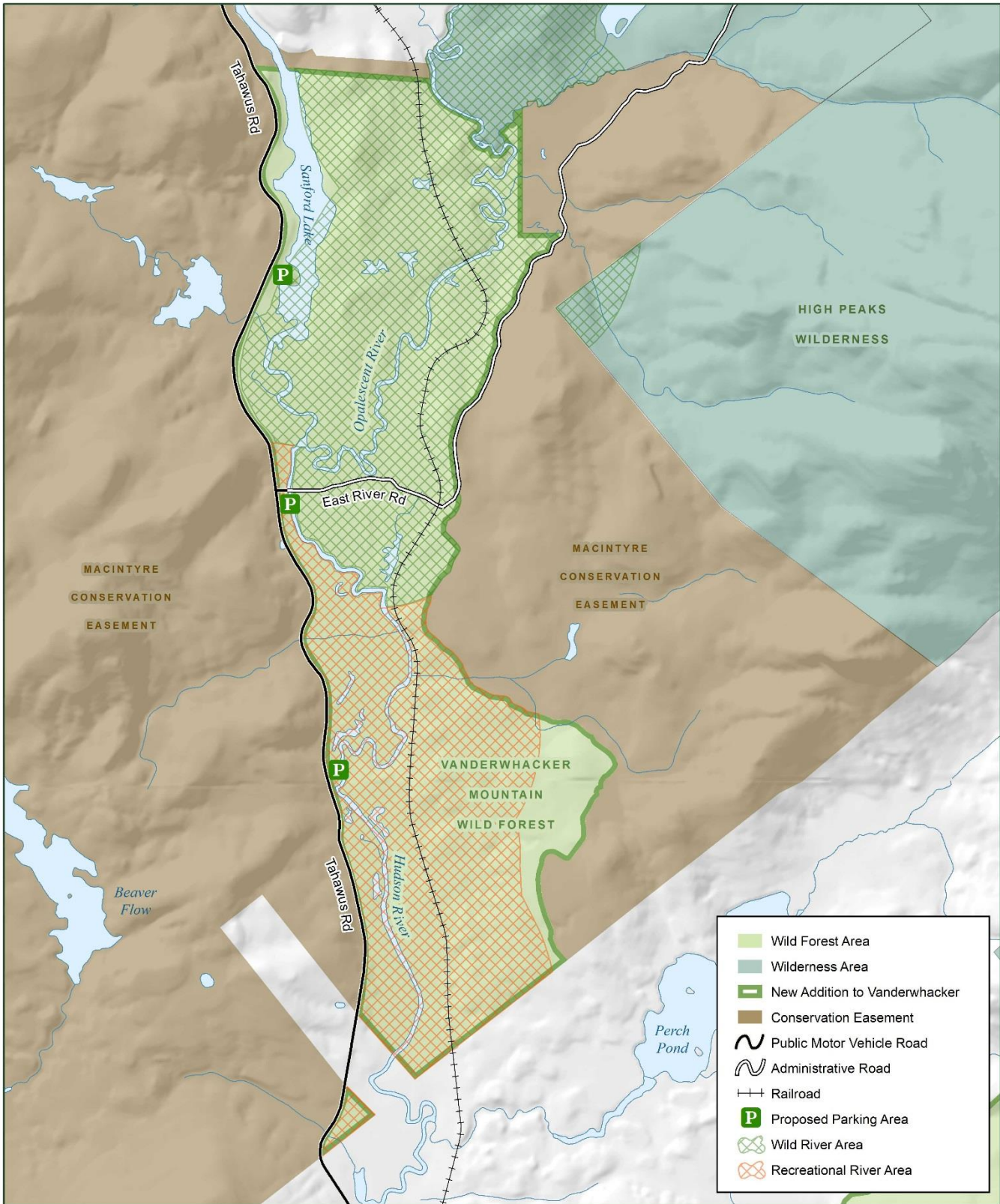
Wetlands



II. Natural Resources

Vanderwhacker Mountain Wild Forest - MacIntyre East Tract

Wild, Scenic,
and Recreational Rivers



D. Vegetation

General Inventory

The lands within the tracts are mostly forested. Plant communities vary depending on past timber harvesting and environmental factors. The historical management of these tracts for a sustainable supply of timber is apparent throughout.

The tracts lie in the ecological transition zone between the temperate deciduous forest and the true boreal forest. The predominant, broad naturally occurring vegetative types include northern hardwoods, mixed hardwoods, and lowland boreal communities. The influence of logging over the past century has brought visible effects on the vegetative cover.

Rare, Threatened and Endangered Plants and Ecological Communities

In 2000-2001, scientist Jerry Jenkins was commissioned by The Nature Conservancy for Finch, Pruyn & Co. to complete a biological survey (mainly flora) on Finch-owned lands in the Adirondack Park. Several sites along the Opalescent and Hudson were inventoried, revealing several notable communities and species. The upland sites above the river banks are alluvial forests, while the majority of the lowlands along the river bottom are lowland boreal forests. Open wetland complexes ranging from 5 to 50 acres are scattered throughout the lowland forests as well. The floodplain here is generally 0.2 to 0.5 miles wide, well developed, and has several oxbows. Most wetland communities are sedge-shrub-sphagnum, but one is a low nutrient white cedar-delicate sedge bog which is a rare wetland type in the Adirondacks, and was noted as being the most unusual wetland examined in the Jenkins Survey. Some of the most notable species are arethusa (*Arethusa bulbosa*), pickerings reedgrass (*Calamagrostis pickeringii*), two-seeded sedge (*Carex disperma*), Michaux's sedge (*Carex michauxiana*), few-flowered sedge (*Carex pauciflora*), low sedge (*Carex paupercula*), slender-flowered sedge (*Carex tenuiflora*), bog honeysuckle (*Lonicera villosa*), alder buckthorn (*Rhamnus alnifolia*), and pylaes sphagnum (*Sphagnum pylaesii*).

The survey also lists a significant "spruce swamp" on the western side of the Boreas tract as having a moderately high diversity of bryophytes and some significant mosses and liverworts. These include the NYS rare *Campylium radicale*, and uncommon *Hylocomnium umbratum* and *Rhytidiadelphus squarrosus*.

Terrestrial Invasive Species

The negative impacts of invasive species on natural forests, terrestrial and aquatic communities are well documented. Colonization and unrestrained growth of invasive species cause the loss of biodiversity, interruption of normal hydrology, suppression of native vegetation, and significant aesthetic, human safety and economic impacts. Terrestrial and aquatic invasive species have been identified at increasing rates of colonization along roadsides in campgrounds, and in water bodies of the Forest Preserve. Some of these species have the potential to colonize backcountry lands, lakes and ponds and degrade natural resources of the Forest Preserve.

The Department is a member and will continue to collaborate with other partners of the Adirondack Park Invasive Plant Program (APIPP) (Adirondack PRISM) to support education, inventory, research, control protocol, and control of invasive species. An inventory and analysis of the current distribution of invasive species on Forest Preserve lands will provide the necessary information on the present extent of invasive exotics and provide the basis for long term decision making.

As mentioned under Aquatic Invasive Species, the Department and the APA have developed Inter-Agency Guidelines for Implementing Best Management Practices for the Control of Terrestrial and Aquatic Invasive Species on Forest Preserve Lands in the Adirondack Park (see appendix A). The Guidelines are a dynamic document and are periodically revised to reflect new invasive species threats, continuing inventory of the Forest Preserve, and evolving invasive species management techniques.

Efforts should be made to restore and protect the native ecological communities in the Vanderwhacker Mountain Wild Forest through early detection and rapid response efforts to eradicate or control existing or newly identified invasive species populations. Adoption of the Guidelines and implementation through the UMP and site specific work planning process gives the Department the basic tools needed to preserve, protect and restore the natural native ecosystems of the Forest Preserve.

Forest Health

A combination of many factors can influence the health of a plant community. Physical factors tend to be weather related with notable examples being lightning fires, ice damage, severe winds, and flooding. Biological factors are variable and include the effects of disease and insects on the forest environment. Insects and diseases that affect trees are constant natural forces that shape the forest. While many insects and

II. Natural Resources

diseases have negligible or beneficial impacts to forest health, some, especially those involving exotic invasive species, can be especially damaging.

Several insects and diseases have impacted forest communities within the region and/or New York State in recent years and continue to pose a threat the health of forests within unit:

Beech Bark disease – Beech bark disease is an important insect-fungus complex that has caused extensive mortality of American beech throughout portions of the Adirondacks. The primary vector, a scale insect, *Cryptococcus fagi*, attacks the tree creating entry sites for the fungus, *Nectria coccinea* var. *faginata*. Changes in the percent of beech in the cover type can stimulate shifts in animal populations that utilize beech mast extensively as a food source. On the other hand, dead and/or dying beech trees may benefit other wildlife species by providing abundant nesting, feeding, and potential den locations.

Emerald Ash Borer (*Agrilus planipennis*) – This exotic, introduced beetle bores into and kills otherwise healthy ash trees. White ash trees are a minor component although their value to wildlife and scenic quality should be evaluated to improve interpretations of value loss following EAB infestations.

Hemlock woolly adelgid (*Adelges tsugae*) – This aphid-like insect attacks North American hemlocks, and can be easily identified by the white woolly masses they form on the underside of branches at the base of the needles. Juvenile hemlock woolly adelgid feed on the tree's stored starches, and remain in the same spot for the rest of their lives, continually feeding and developing into adults. Their feeding severely damages the canopy of the host tree by disrupting the flow of nutrients to its twigs and needles. Tree health declines, and mortality usually occurs within 4 to 10 years.

Native to Asia, Hemlock woolly adelgid was introduced to the western United States in the 1920s. It was first observed in the eastern US in 1951 near Richmond, Virginia after an accidental introduction from Japan. Hemlock woolly adelgid has since spread along the East Coast from Georgia to Maine and now occupies nearly half the eastern range of native hemlocks. Hemlock woolly adelgid was first discovered in New York State in 1985 in the lower Hudson Valley and on Long Island. Since the initial infestation, hemlock woolly adelgid has continued to spread north to the Capitol Region and west, through the Catskill Mountains and the Finger Lakes Region, into western NY.

In the summer of 2017, hemlock woolly adelgid was discovered on the Forest Preserve in the Town of Lake George, the first known occurrence in the Adirondack Park. Due to the limited extent of the infestation, the Department and its partners were able to treat

the area and hopefully eliminate what is believed to be an outlier infestation. Because of the Lake George infestation, monitoring efforts have increased throughout the southern Adirondacks.

Balsam Woolly Adelgid (*Adelgaes piceae*) - The balsam woolly adelgid, a pest of true firs, was introduced into the United States from Europe or Asia around the turn of the century. Since that time it has spread throughout the United States and Canada.

Forest Tent Caterpillar (*Malacosoma disstria*) - The forest tent caterpillar, a native insect, may be found wherever hardwoods grow. Outbreaks have occurred at 10 to 15 year intervals with the last widespread outbreak in the late 1970's. Portions of St. Lawrence County were moderately to severely defoliated in 2003 through 2005, with additional outbreaks reported in northeast Jefferson, Herkimer, Fulton and Hamilton Counties. Favored hosts are sugar maple and aspen with birch, cherry, and ash also being utilized.

Gypsy moth (*Lymantria dispar*) – This introduced invasive insect forest defoliator has been a resident of the region for over a century. The insect periodically causes extreme defoliation in red oaks and has caused some scattered mortality. Heavy infestations of caterpillars can be a severe nuisance to forest users and the hairs on the caterpillars can be a serious human health risk due to allergic reactions.

Oakwilt (*Ceratocystis fagacearum*) - This fungus develops in the xylem, the water carrying cells of trees. All oaks are susceptible to the fungus, but the red oak group (with pointed leaf tips) often die much faster than white oaks (rounded leaf tips). Red oaks can take from a few weeks to six months to die and they spread the disease quickly. White oaks can take years to die and have a lower risk of spreading the disease.

White pine decline – This disease is caused by several agents of which the most notable are white pine blister rust (WPBR), *Caliciopsis* canker, *Armillaria* root disease, and several needle casts and blights. White pine decline has recently been listed as a northeastern forest decline priority as several mature and maturing pine stands are suffering significant levels of decline on a variety of sites from Maine to Pennsylvania. Transition forests around wetlands seem particularly vulnerable to white pine decline agents as these stands seem to suffer more from seasonal droughts.

Spruce decline – There are several insects and diseases that are that can contribute to severe decline symptoms in spruce stands following drought, competition, extreme weather or other site related stressors. These agents rarely directly cause severe

II. Natural Resources

decline or mortality although Ips bark beetles can be found in local outbreaks that may expand to a few acres of tree mortality.

Proposed Management

Objectives

- Allow natural processes to freely operate to ensure that the succession of native plant communities is not altered by human use.
- Prevent the establishment of non-native invasive vegetation.
- Educate natural resource managers, elected officials and the public about the threat of invasive species and ways to prevent their introduction and transport into the unit.
- Incorporate information in staff training and citizen licensing programs for hunting, fishing, and boating, and through signage, brochures, and educational materials; and include in information centers, campgrounds, community workshops, and press releases.
- Protect known locations of sensitive, rare, threatened, and endangered plant species.
- Promote programs and studies that identify rare ecological communities.

Action Steps

- Where applicable, manage invasive species and forest pests pursuant to Inter-Agency Guidelines for Implementing Best Management Practices for the Control of Terrestrial and Aquatic Invasive Species on Forest Preserve Lands in the Adirondack Park.
- For beech bark disease, conduct aerial surveys with periodic ground checks to determine the extent and expansion of beech decline and mortality.
- For emerald ash borer, survey every three years for the presence of symptoms via aerial reconnaissance and when appropriate, conduct ground surveys to verify presence. Collect photographic and/or bark sample evidence and forward to the Forest Health Diagnostic Laboratory for confirmation.
- For hemlock woolly adelgid, survey high priority hemlock stands annually by employing citizen science surveys and influencing existing professional survey activities. Develop a priority plan for any potential mitigation efforts needed to preserve specific hemlock stands. The plan should prepare for potential mitigation impacts on local and regional forests after the hemlock woolly adelgid presence has been confirmed.

- For balsam woolly adelgid, periodically survey for the extent and expansion of true fir decline symptoms and where symptoms are evident, collect damaged twig samples and/or photographs and forward them to the Forest Health Diagnostic Laboratory.
- For forest tent caterpillar, employ annual surveys or influence other professional survey activities to assess the population by evaluating visible defoliation. Develop a maple regeneration value inventory to assign priorities for further monitoring or more intensive sampling to predict defoliation and subsequent maple regeneration impacts.
- For gypsy moth, employ annual surveys or influence other professional survey activities to assess the population by evaluating visible defoliation. Develop a red oak value inventory to assign priorities for further monitoring or more intensive sampling to predict defoliation and subsequent red oak decline or mortality.
- For oakwilt, annually monitor for severe, spot or small area decline or mortality in red oak stands. Where symptoms are evident, collect damaged twig samples and/or photographs and forward them to the Forest Health Diagnostic Laboratory.
- For white pine decline, employ annual surveys or influence other professional survey activities to assess the extent of white pine decline symptoms. Collect damage evidence materials from specifically impacted sites and forward to the Forest Health Diagnostic Laboratory for evaluation. Prepare damage agent evaluation and prognosis reports for specific white pine stands.
- For spruce decline, periodically survey for the extent and expansion of spruce decline symptoms and where symptoms are evident, collect damaged twig samples and/or photographs and forward them to the Forest Health Diagnostic Laboratory.

E. Wildlife

Existing Conditions

Mammals

A wide variety of mammal species inhabit the Boreas and MacIntyre tracts, which are representative of the High Peaks region and central Adirondacks. However, survey data are mostly lacking for mammals in these tracts. The Department has conducted moose and carnivore surveys in the Boreas Ponds area and results of these efforts are summarized below.

Large and Medium-sized Mammals

Large and medium-sized mammals known to occur within these tracts include white-tailed deer, moose, black bear, coyote, raccoon, red fox, gray fox, bobcat, fisher, American marten, river otter, mink, striped skunk, long-tailed weasel, short-tailed weasel, beaver,



American marten detected with a camera trap near Boreas Ponds, 2015.

muskrat, porcupine, and snowshoe hare (Saunders 1988). Of these species, white-tailed deer, black bear, coyote, raccoon, red fox, gray fox, long-tailed weasel, short-tailed weasel, bobcat, and snowshoe hare can be hunted. Additionally, these species (with the exception of white-tailed deer, black bear, and snowshoe hare) along with fisher, American marten, mink, muskrat, beaver, and river otter can be trapped. Hunting and trapping activities are highly regulated by NYSDEC, and the Department's Bureau of Wildlife collects annual harvest and survey data on many of these species.

White-tailed deer

Important big game species within the area include white-tailed deer and black bear. Relative abundance of white-tailed deer is generally low in the High Peaks and central Adirondacks, which is related to decreased productivity in mature second-growth forests and harsher winter conditions (temperature, snow depth) at higher elevations. From early spring (April) to late fall (November), deer are distributed generally on their "summer range". When snow accumulates to depths of 20 inches or more, deer travel

to their traditional wintering areas. This winter range is characteristically composed of lowland spruce-fir, cedar or hemlock forests, and to a lesser degree, a combination of mixed deciduous and coniferous cover types. Often found at lower elevations along water courses, this habitat provides deer with protective cover from adverse weather and easier mobility in deep snows (see Critical Habitat section).

Black bear

Black bears are essentially solitary animals and tend to be dispersed throughout the High Peaks region. The Adirondacks support the largest black bear population in New York State (4,000 to 5,000 bears). Hikers and campers in this region are likely to encounter a bear, and negative interactions between black bears and humans, mainly related to bears stealing food from humans, have been a regular occurrence in the High Peaks for at least twenty years. In 2005 a new regulation was enacted, requiring all overnight campers in the Eastern High Peaks Management Zone (Zone C; <https://www.dec.ny.gov/outdoor/33889.html>) to use bear-resistant canisters for food, toiletries, and garbage. In other areas of the Adirondacks, the DEC recommends the use of bear resistant canisters as well.

Moose

Moose entered the state on a continuous basis in 1980, after having been absent since the 1860s. Currently, the moose population in the Adirondacks is estimated to be approximately 400. In the northeastern United States, moose use seasonal habitats within boreal and mixed coniferous/deciduous forests. The southern distribution of moose is limited by summer temperatures that make the regulation of body temperature difficult. Moose select habitat primarily for the most abundant and highest quality forage (Peek 1997). Disturbances such as wind, fire, logging, tree diseases, and insects create openings in the forest that result in regeneration of important hardwood browse species such as white birch, aspen, red maple, and red oak. Typical patterns in moose habitat selection during the summer include the use of open upland and aquatic areas in early summer followed by the use of more closed canopy areas (such as upland stands of mature aspen and white birch) that provide higher quality forage in late summer and early autumn. After the fall rut and into winter, moose intensively use open areas again where the highest biomass of woody browse exists (i.e., dormant shrubs). In late winter when browse quantity and quality are lowest, moose will use closed canopy areas that represent the best cover available within the range (e.g., closed canopy conifers in boreal forest). From late spring through fall, moose commonly are associated with aquatic habitats such as lakes, ponds, and streams. However, use of aquatic habitats can vary geographically over their range. It is believed that moose use aquatic habitats

II. Natural Resources

primarily to forage on highly palatable plants, however, moose may also use these areas for relief from insects and high temperatures.

The Bureau of Wildlife has conducted aerial moose surveys in the Adirondacks during the winters of 2015-2018. During the winters of 2015 and 2016, staff surveyed 11 transects that were partially within the Boreas and MacIntyre tracts; however, no moose were observed during these surveys.

American marten

American marten populations in New York State are geographically-isolated within the higher elevations of the central Adirondacks (in general, $\geq 2,000$ ft.). In this area, martens use a variety of second-growth and old-growth forest stand types (deciduous, mixed, and coniferous) that are structurally complex (heavy canopy cover, downed woody debris). Structural complexity influences all aspects of marten life history, including acquisition of prey, rearing kits, escaping avian and mammalian predators, and thermoregulation. Additionally, these higher elevations are characterized by harsh abiotic conditions (low temperatures, deep snowpack) and low productivity that favor martens over other carnivores that prey on and compete with them (for example, fisher, coyote, and fox). Recent research using species distribution models have revealed that most of the central Adirondacks (approximately 3,500 mi²) represent suitable marten habitat. Moreover, the High Peaks and West Canada Lakes region contained the largest core areas of high-quality marten habitat (i.e., greatest probability of use). Bureau of Wildlife staff have conducted carnivore surveys using track plates and camera traps within the Boreas tract and detected American martens, fishers, weasels, and coyotes.

Small Mammals

The variety of habitats that occur within the Adirondack region are home to an impressive diversity of small mammals. These mammals inhabit the lowest elevations to those as high as 4,400 feet (Southern bog lemming). Most species are found in forested habitat (coniferous, deciduous, mixed forest) with damp soils, organic muck, or soils with damp leaf mold. However, some species (e.g., hairy-tailed mole) like dry to moist sandy loam soils and others (e.g., white-footed mouse) prefer the drier soils of oak-hickory, coniferous, or mixed forests. Small mammals of the Adirondack region are found in alpine meadows (e.g., long-tailed shrew), talus slides and rocky outcrops (e.g., rock vole), grassy meadows (e.g., meadow vole, meadow jumping mouse), and riparian habitats (e.g., water shrew). It is likely that many, if not most, of the small mammal species listed below inhabit the Boreas and MacIntyre tracts (Table 1). An exception may be the Northern bog lemming, a species whose southernmost range extends just

into the northern portion of Adirondack Park; only one recently-verified specimen exists (Saunders 1988). All listed species are known to occur within Adirondack Park.

Table 1. Small mammal species recorded within Adirondack Park (data based on museum specimens; Saunders 1988). Number of towns represents the number of towns in which each species was recorded.

Common Name	Scientific Name	Number of Towns
Star-nosed mole	<i>Condylura crestata</i>	6
Hairy-tailed mole	<i>Parascalops breweri</i>	11
Short-tailed shrew	<i>Blarina brevicauda</i>	31
Pygmy shrew	<i>Sorex hoyi</i>	1
Long-tailed shrew	<i>Sorex dispar</i>	7
Smoky shrew	<i>Sorex fumeus</i>	18
Water shrew	<i>Sorex palustris</i>	10
Masked shrew	<i>Sorex cinereus</i>	25
Deer mouse	<i>Peromyscus maniculatus</i>	26
White-footed mouse	<i>Peromyscus leucopus</i>	14
Southern red-backed vole	<i>Clethrionomys gapperi</i>	32
Meadow vole	<i>Microtus pennsylvanicus</i>	31
Yellownose vole	<i>Microtus chrotorrhinus</i>	6
Woodland vole	<i>Microtus pinetorum</i>	1
Southern bog lemming	<i>Synaptomys cooperi</i>	12
Northern bog lemming	<i>Synaptomys borealis</i>	1
Meadow jumping mouse	<i>Zapus hudsonicus</i>	22
Woodland jumping mouse	<i>Napaeozapus insignis</i>	25

II. Natural Resources

Birds

The avian community of the Boreas and MacIntyre tracts varies seasonally. Some species remain within the area year-round, but the majority of species utilize the area during the breeding season and for migration. The first Breeding Bird Atlas Project (BBA) conducted during 1980-1985 (Andrle and Carroll, 1988) and the Breeding Bird Atlas 2000 Project (2000-2005) documented 129 and 128 species, respectively, in atlas blocks within, or partially within these tracts. It is important to recognize that atlas blocks overlap and extend beyond the boundaries of the Boreas and MacIntyre tracts.

Therefore, these data do not necessarily reflect what is found on the tracts, but on the atlas blocks. It is probable that some species were detected only on private lands adjacent to the state lands. However, the BBA data should provide a good indication of the species found throughout these tracts and adjacent region. Species that were detected were similar to those described for the Vanderwhacker Mountain Wild Forest.

Birds Associated with Boreal Forest

These tracts contain high elevation and lowland boreal forest habitats that are significant for a variety of birds. In total, boreal forest comprises approximately 3,964 acres of these tracts. This acreage includes approximately 1,200 acres of lowland boreal forest, which occurs primarily along the Hudson River south of Tahawus. The state endangered Spruce Grouse prefers lowland boreal forests, where it selects immature or uneven-aged spruce-fir habitats. Potential Spruce Grouse habitat closely aligns with lowland boreal forest within these tracts; however, contemporary data (1984) indicate that the single occurrence record for this species was from a BBA survey block along Blue Ridge Road and between the Elk Lake and Gulf Brook roads. This area contains limited lowland boreal forest.

The Boreas and MacIntyre tracts contain approximately 2,764 acres of high elevation boreal forest ($\geq 2,800$ feet elevation) which are mostly contiguous with higher elevations in the High Peaks Wilderness Area. Most of this area exists within the Boreas Range (1,466 acres) and Santanoni Mountains (972 acres). High elevation spruce-fir forest is especially important as breeding habitat for Bicknell's Thrush, a special concern species in New York that has been documented in BBA survey blocks within both tracts.

Throughout the range of this species, montane forest between 2,900 ft. and 4,700 ft. that is dominated by stunted balsam fir and red spruce is the primary breeding habitat for this species (Atwood et al. 1996). Bicknell's Thrush also utilize fir waves and natural disturbances as well as areas of dense regeneration along the edges of ski slopes. The species is most common on the highest ridges of the Adirondacks, preferring young or stunted dense stands of balsam fir up to 9 ft. in height. Here they lay their eggs above the ground in the dense conifer thickets.

In an effort designed to protect birds associated with high elevation boreal forest and their habitats, New York State designated the Adirondack mountain summits above 2,800 feet in Essex, Franklin, and Hamilton counties as the Adirondack Subalpine Forest Bird Conservation Area (BCA) in November 2001. The New York State Bird Conservation Area Program, established in September 1997, was designed to safeguard and enhance bird populations and their habitats on selected state lands and waters.

Of 27 bird species associated with boreal forest that occur in New York (Tim Post, NYSDEC, personal communication), 25 have been documented in BBA survey blocks within, or partially within, these tracts. During the two BBA projects, 16 species of lowland boreal forest birds, 4 species of high elevation boreal forest birds, and 5 species commonly associated with boreal forest have been documented in survey blocks within, or partially within the unit (Table 2). Some notable differences in boreal bird species composition were recorded between the two atlas periods; Spruce Grouse were documented in the first atlas project but not the second, and Cape May Warbler, Palm Warbler, and Pine Siskin were documented in the second atlas project but not the first. American Three-toed Woodpecker and Connecticut Warbler were not detected during either BBA project.

Table 2. Bird species associated with boreal forest as documented by the New York State Breeding Bird Atlas projects (1980-1985 and 2000-2005) and occurring in atlas blocks within, or partially within, the Boreas and MacIntyre tracts.

Common Name	Scientific Name
Lowland Boreal Forest Species	
Spruce Grouse ^a	<i>Falcapennis canadensis</i>
Black-backed Woodpecker	<i>Picoides acticus</i>
Olive-sided Flycatcher	<i>Contopus cooperi</i>
Boreal Chickadee	<i>Poecile hudsonicus</i>
Ruby-crowned Kinglet	<i>Regulus calendula</i>
Cape May Warbler	<i>Dendroica tigrina</i>
Bay-breasted Warbler	<i>Dendroica castanea</i>

II. Natural Resources

Common Name	Scientific Name
Rusty Blackbird	<i>Euphagus carolinus</i>
White-throated Sparrow	<i>Zonotrichia albicollis</i>
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>
Gray Jay	<i>Persisoreus canadensis</i>
Palm Warbler	<i>Dendroica palmarum</i>
Lincoln's Sparrow	<i>Melospiza lincolnii</i>
White-winged Crossbill	<i>Loxia leucoptera</i>
Red Crossbill	<i>Loxia curvirostra</i>
Pine Siskin	<i>Carduelis pinus</i>
High Elevation Boreal Forest Species	
Bicknell's Thrush ^b	<i>Catharus bicknelli</i>
Blackpoll Warbler	<i>Dendroica striata</i>
Winter Wren	<i>Troglodytes</i>
Swainson's Thrush	<i>Catharus ustulatus</i>
Species Commonly Associated with Boreal Forest	
Evening Grosbeak	<i>Coccothraustes vespertinus</i>
Blackburnian Warbler	<i>Dendroica fusca</i>
Magnolia Warbler	<i>Dendroica magnolia</i>
Northern Parula	<i>Parula americana</i>
Tennessee Warbler	<i>Vermivora peregrina</i>

^aEndangered species.

^bSpecial Concern species.

Other Bird-Habitat Associations

In addition to boreal and mixed-boreal forests, other habitats types of importance include deciduous forests, lakes, ponds, streams, bogs, beaver meadows, and shrub swamps.

Birds associated with marshes, ponds, lakes, and streams include: common loon, pied-billed grebe, great blue heron, green-backed heron, American bittern, and a variety of waterfowl. The most common ducks include the mallard, American black duck, wood duck, hooded merganser, and common merganser. Other species of waterfowl migrate through the region following the Atlantic Flyway.

Bogs, beaver meadows, shrub swamps, and any areas of natural disturbance provide important habitat for species that require or prefer openings and early successional habitats. Species such as Alder and Olive-sided Flycatchers, American Woodcock, Lincoln Sparrow, Nashville Warbler, Chestnut-sided Warbler, Brown Thrasher, Blue-winged Warbler, Yellow Warbler, Common Yellowthroat, Indigo Bunting, Eastern Towhee, and Field Sparrow rely on these habitats and are rarely found in mature forests. These species, as a suite, are declining more rapidly throughout the Northeast than species that utilize more mature forest habitat. Habitat for these species is very limited within these tracts.

Birds that prefer forest habitat are numerous, including many neotropical migrants. Some species prefer large blocks of contiguous forest (e.g., Northern Goshawk), others prefer blocks of forest with adjacent openings, and many prefer forest with a relatively thick shrub layer. The forest currently is maturing, and will eventually become old growth forest dominated by large trees.

Songbirds are a diverse group filling different niches in the Adirondacks. The most common species found throughout the deciduous or mixed forest include the Ovenbird, Red-eyed Vireo, Yellow-bellied Sapsucker, Black-capped Chickadee, Blue Jay, Downy Woodpecker, Brown Creeper, Wood Thrush, Black-throated Blue Warbler, Pileated Woodpecker, and Black and White Warbler. The Golden-crowned Kinglet, Purple Finch, Pine Siskin, Red and White-winged Crossbill and Black-throated Green Warbler are additional species found in the coniferous forest and exhibit preference for this habitat. Birds of prey common to the area include the Barred Owl, Great Horned Owl, Eastern Screech-owl, Northern Goshawk, Red-tailed Hawk, Sharp-shinned Hawk, and Broad-winged Hawk.

Game birds include upland species such as turkey, ruffed grouse and woodcock, as well as a variety of waterfowl. Ruffed grouse and woodcock prefer early successional

II. Natural Resources

habitats and their habitat within the area is limited due to the limited amount of timber harvesting. Turkey are present in low numbers and provide some hunting opportunities. Waterfowl are common along the waterways and marshes and provide hunting opportunities.

Amphibians and Reptiles

The New York State Amphibian and Reptile Atlas Project (1990-1999) confirmed the presence of 23 species of reptiles and amphibians in USGS Quadrangles within, or partially within the Boreas and MacIntyre tracts. It is important to note that quadrangles (the survey sample unit) overlap and extend beyond the land boundaries of these tracts. Therefore, recorded species do not necessarily reflect what was found on the tracts, but on the quadrangles. Some species may have been found on private lands adjacent to the state lands. However, these data should provide a good indication of the species found throughout the area. These included three species of turtles, four species of snakes, nine species of frogs and toads, and seven species of salamanders (Table 3). These species are classified as protected wildlife and some may be harvested during open hunting seasons. Of the 23 confirmed species, one was classified as special concern (wood turtle) and none were classified as endangered or threatened. Three occurrences of wood turtle were documented in quadrangles within, or partially within, the tracts.

Table 3. Amphibian and reptile species recorded in USGS Quadrangles within, or partially within, the Boreas and MacIntyre tracts during the New York State Amphibian and Reptile Atlas Project, 1990-1999.

Common Name	Scientific Name
Spotted Salamander	<i>Ambystoma maculatum</i>
Red-spotted Newt	<i>Notophthalmus v. viridescens</i>
Northern Dusky Salamander	<i>Desmognathus fuscus</i>
Allegheny Dusky Salamander	<i>Desmognathus ochrophaeus</i>
Northern Redback Salamander	<i>Plethodon cinereus</i>
Northern Spring Salamander	<i>Gyrinophilus p. porphyriticus</i>
Northern Two-lined Salamander	<i>Eurycea bislineata</i>

Common Name	Scientific Name
Eastern American Toad	<i>Bufo a. americanus</i>
Northern Spring Peeper	<i>Pseudacris c. crucifer</i>
Gray Treefrog	<i>Hyla versicolor</i>
Bullfrog	<i>Rana catesbeiana</i>
Green Frog	<i>Rana clamitans melanota</i>
Mink Frog	<i>Rana septentrionalis</i>
Wood Frog	<i>Rana sylvatica</i>
Northern Leopard Frog	<i>Rana pipiens</i>
Pickerel Frog	<i>Rana palustris</i>
Common Snapping Turtle	<i>Chelydra s. serpentina</i>
Wood Turtle ^a	<i>Glyptemys insculpta</i>
Painted Turtle	<i>Chrysemys picta</i>
Northern Redbelly Snake	<i>Storeria o. occipitomaculata</i>
Common Garter Snake	<i>Thamnophis sirtalis</i>
Northern Ringneck Snake	<i>Diadophis punctatus edwardsi</i>
Smooth Green Snake	<i>Liochlorophis vernalis</i>

^bSpecial Concern species.

Endangered, Threatened, and Special Concern Species

New York has classified species at risk into three categories: endangered, threatened, and species of special concern (6 NYCRR §182). The following section indicates the protective status of some vertebrates that may be in the unit:

Endangered: Any species that is either native and in imminent danger of extirpation or extinction in New York; or is listed as endangered by the US Department of Interior.

II. Natural Resources

Threatened: Any species that is native and likely to become endangered within the foreseeable future in New York; or is listed as threatened by the US Department of the Interior.

Special Concern: Native species not yet recognized as endangered or threatened, but for which documented concern exists for their continued welfare in New York. Unlike the first two categories, they receive no additional legal protection under the Environmental Conservation Law; but, they could become endangered or threatened in the future and should be closely monitored.

The following table lists endangered, threatened, and special concern species that were detected in survey blocks within, or partially within, the Boreas and MacIntyre tracts.

Table 4. New York State-listed endangered, threatened, and special concern species documented in survey blocks within, or partially within, the Boreas and MacIntyre tracts. Bird data were collected during the 1980-1985 and 2000-2005 Breeding Bird Atlas projects. Amphibian and reptile data were collected during the New York State Amphibian and Reptile Atlas Project (1990-1999). Species detected through other surveys are noted.

		Breeding Bird Atlas Project	
Common Name	Scientific Name	1980-1985	2000-2005
Endangered			
Peregrine Falcon	<i>Falco peregrinus</i>	x	
Spruce Grouse	<i>Falcipennis canadensis</i>	x	
Threatened			
Northern Harrier	<i>Circus cyaneus</i>	x	x
Bald Eagle	<i>Haliaeetus leucocephalus</i>		x
Special Concern			
American Bittern	<i>Botaurus lentiginosus</i>	x	x

Common Loon ^a	<i>Gavia immer</i>	x	x
Cooper's Hawk	<i>Accipiter cooperii</i>	x	x
Osprey	<i>Pandion haliaetus</i>	x	x
Sharp-shinned Hawk	<i>Accipiter striatus</i>	x	x
Northern Goshawk	<i>Accipiter gentilis</i>	x	x
Common Nighthawk	<i>Chordeiles minor</i>	x	
Red-shouldered Hawk	<i>Buteo lineatus</i>	x	x
Horned Lark	<i>Eremophila alpestris</i>	x	
Golden-winged Warbler	<i>Vermivora chrysoptera</i>		x
Bicknell's Thrush ^a	<i>Catharus bicknelli</i>	x	x
Wood Turtle ^b	<i>Clemmys insculpta</i>	x	

^aAlso documented by New York Natural Heritage Program (NYNHP) staff. Bicknell's Thrush were detected just to the east of the Boreas tract on private lands.

^bSpecial Concern species.

Extirpated and Formerly Extirpated Species

Moose, elk, wolf, cougar, Canada lynx, bald eagle, golden eagle, and peregrine falcon all inhabited the Adirondacks prior to European settlement. All of these species were extirpated from the Adirondacks, mostly as a result of large-scale landscape changes during the nineteenth century. Unregulated harvest also led to the decline of some species, such as moose, wolf, elk, beaver, American marten, and fisher. More recently some birds fell victim to the widespread use of Dichlorodiphenyltrichloroethane (DDT).

Projects to re-establish the Peregrine Falcon, Bald Eagle, and Canada lynx have been implemented. Efforts to reintroduce the Peregrine Falcon and the Bald Eagle through "hacking" programs began in 1981 and 1983, respectively. These projects have been

II. Natural Resources

remarkably successful within New York. Bald Eagles are becoming more common, and Peregrines are recovering. Both species are now found in portions of the Adirondacks. Golden Eagles are generally considered to have always been rare breeders within the state. A total of 83 Canada lynx were released into Adirondack Park from 1989 to 1991 by the SUNY College of Environmental Science and Forestry as part of their Adirondack Wildlife Program. Lynx dispersed widely from the release area and mortality was high, especially mortality caused by vehicle-animal collisions. The Wildlife Conservation Society conducted lynx surveys in the High Peaks region in 1998-99; however, these surveys failed to detect this species. It is generally accepted that the lynx restoration effort was not successful and that there are no lynx from the initial releases or through natural reproduction of released animals remaining in the Adirondacks. Lynx are legally protected as a game species with no open season as well as being listed as threatened on both the Federal and State level.

The wolf and eastern cougar are still considered to be extirpated from NYS. Reports of wolves are generally considered to be misidentified coyotes; however, recent genetic evidence indicates that coyotes in New York are hybrids comprised of western coyote, gray wolf, Eastern wolf, and domestic dog. This hybridization likely occurred as western coyotes dispersed north of the Great Lakes and past the Algonquin Park region of Canada at some point prior to entering New York State in the 1920s and 1930s. Periodic sightings of cougars are reported from the Adirondacks, but the source of these individuals is believed to be from released captive individuals. An exception to this general consensus occurred in 2010 when a wild male subadult cougar dispersed from South Dakota through New York (Lake George) and was killed by a collision with a vehicle in Connecticut (see Kerwin 2012; http://www.dec.ny.gov/docs/administration_pdf/1012consmagweb.pdf and Hawley et al. 2016; https://www.fs.fed.us/rm/pubs_journals/2016/rmrs_2016_hawley_j001.pdf).

Critical Habitat

Deer Wintering Areas

The maintenance and protection of deer wintering areas (or deer yards) are important in maintaining northern deer populations. These areas provide deer with relief from the energetic demands of deep snow and cold temperatures at a time when limited fat reserves are being used to offset reduced energy intake (i.e., nutritionally, winter browse is poor). Previous researchers have demonstrated that deer consistently choose wintering areas which provide relief from environmental extremes over areas that may provide more abundant forage (Severinghaus 1953; Verme 1965). These observations are consistent with the fact that the nutritional value of winter browse is poor due to low

digestibility and that deer can expend more energy obtaining browse than the energy gained by its consumption (Mautz 1978).

Severinghaus (1953) outlined several habitat components of deer yards, including topography and forest cover type (i.e., presence of conifers). The most important characteristic of an Adirondack deer yard is the habitat configuration making up a “core” and travel corridors to and from the core. The core is typically an area, or areas, of dense conifer cover used by deer during severe winter weather conditions. Travel corridors are dense but narrow components which allow access to food resources (hardwood browse) in milder conditions. Use of wintering areas by deer can vary over time depending on winter severity and deer population density. Although Severinghaus (1953) reported that some Adirondack deer yards have been used since the early 1800's, recent research suggests that the location of some current deer yards may overlap very little (or not at all) with their historical counterparts mapped in the 1950's and 1960's by DEC (Hurst 2004). Therefore, planning for the protection of deer wintering areas relative to recreational activities in the unit should consider the dynamic nature of these areas (not the static representation of historical boundaries) and seek to update our understanding of wintering areas currently used by deer.

Historical Deer Wintering Habitat

Potential deer wintering areas have been identified within the tracts from historical aerial surveys conducted by NYSDEC in the 1950's and 1960's; one area was verified via field surveys in the 1970's and 1980's (indicated below). These general areas were located within extensive wetland complexes and riparian forest and include:

1. To the east of Boreas Ponds and LaBier Flow and along Casey Brook and extending north to Upper Ausable Lake,
2. Adjacent to the Hudson River south of Tahawus (verified via field surveys), and
3. Adjacent to the branch, in the Andrew Brook/Fly Pond region, and in the Brant Brook and Dudley Brook areas.

Guidelines for Protection of Deer Wintering Areas

Research on wildlife responses to winter recreation (e.g., cross-country skiing, foot travel, and snowmobiling) is limited. Studies conducted on mule deer (Freddy et al. 1986) and elk (Cassirer et al. 1992) suggest that these species can be disturbed by these activities. However, when planning the location of recreational trails, general guidelines for protecting deer wintering areas can be followed which should reduce the potential for disturbance.

II. Natural Resources

Activities which substantially diminish the quality or characteristics of the site should be avoided, but this does not mean human use is always detrimental. Pass through trails, and other recreational uses can be compatible with deer wintering areas if they are carefully considered. Recreational planning which affords protection of core sections and avoids fragmenting travel corridors are acceptable in many situations. Certain types of recreation such as cross-country skiing are not presently considered to significantly impact deer yards, particularly if the traffic along trails is not prone to stopping or off trail excursions. These types of trails in or adjacent to deer wintering areas can provide a firm, packed surface readily used by deer for travel during periods of deep snow. They can also create access for free-roaming dogs if the location is close to human habitation; thus, trails should avoid deer yards in these situations. High levels of cross-country ski use can increase the energy demands of deer within the yard due to increased movement.

In summary, general guidelines for protecting deer wintering areas include:

- Within travel corridors between core wintering areas, avoid placement of trails within a 100 foot buffer on either side of streams,
- Avoid placement of trails through core segments of deer yards to reduce disturbance associated with users stopping to observe deer,
- Trails should not traverse core segments of deer yards in areas adjacent to densely populated areas such as hamlets, villages, or along roadsides developed with human habitation because they provide access to free roaming dogs,
- In areas with nearby human habitation, avoid land uses which result in remnant trails, roadways or other access lanes which facilitate accessibility to free-roaming dogs.

Proposed Management

Wildlife Management Guidelines

The legal foundation for wildlife and fisheries management in New York State is embodied in Article 11 of the Environmental Conservation Law (ECL). Article 11 authorizes DEC to insure the perpetuation of fish and wildlife species and their habitats and to regulate hunting and trapping through the issuance of licenses, the establishment of hunting and trapping seasons and manner of taking, and the setting of harvest limits. Game species will continue to be managed by appropriate regional or statewide hunting or trapping seasons.

Objectives:

While all the objectives and management actions outlined below are important, a priority should be placed on increasing our understanding of the occurrence and distribution of several wildlife species and critical habitats within these tracts. This priority is reflected under the list of potential management action projects outlined below.

- Perpetuate, support, and expand a variety of wildlife recreational opportunities, including sustainable hunting and trapping and wildlife observation and photography as desirable uses of wildlife resources.
- Meet the public's desire for information about wildlife and its conservation, use, and enjoyment.
- Assure that wildlife populations are of appropriate size and adequately protected to meet the demands placed on them, including consumptive and non-consumptive uses.
- Increase our understanding of the occurrence, distribution, and ecology of game and nongame wildlife species and their habitats.
- Minimize wildlife damage and nuisance problems.

Management Actions:

- Manage and protect wildlife through enforcement of the Environmental Conservation Law and applicable Rules and Regulations.
- Support traditional use of the tract's wildlife resources, particularly activities designed to perpetuate hunting and trapping programs and education efforts.
- Active management of wildlife populations will be accomplished primarily through hunting and trapping regulations developed by the DEC Bureau of Wildlife for individual or aggregate Wildlife Management Units.
- Regulations will be based on data collected from hunters/trappers, wildlife surveys, and research, as well as input from our constituents.
- Monitor critical habitats for potential human disturbance. Human disturbance impacts to critical habitats will be mitigated through appropriate measures (e.g., temporary closing of climbing routes, posting and/or gating entrances to caves that serve as bat hibernacula, and implementing standard guidelines for protecting deer wintering yards).
- Continue to monitor and inventory wildlife populations and their habitats, particularly species classified as endangered, threatened, special concern, rare, or game. Examples of important wildlife monitoring programs that we should continue include those for Peregrine Falcons, American martens, and boreal birds.

II. Natural Resources

- Continue aerial surveys for moose, monitor existing radio-collared moose, and continue collaring new individuals on an opportunistic basis.
- Support future statewide and regional survey efforts that increase our understanding of the occurrence and distribution of flora, fauna, and significant ecological communities (e.g., Mammal Atlas, Breeding Bird Atlas, New York Natural Heritage Program surveys).
- Re-establish or augment, to the extent possible, self-sustaining wildlife populations of species that are extirpated, endangered, threatened or of special concern in habitats where their existence will be compatible with other elements of the ecosystem and human use of the area.
- Provide information, advice and/or direct assistance to requests for relief from, or solutions to reduce or alleviate problems with nuisance wildlife.
- Provide information to user groups on avoiding problems associated with black bears. Encourage the voluntary use of bear-resistant food canisters in other areas.
- Assess problems associated with beaver-flooded trails and roads. Work with area trappers and encourage trapping at nuisance sites during the open beaver trapping season.
- Provide information, advice, and assistance to individuals, groups, organizations, and agencies interested in wildlife resources and whose actions may affect these resources.

F. Fisheries

The 2005 Vanderwhacker Mountain Wild Forest UMP provided an inventory of the fisheries resource in the area and recommendations for its management. This UMP amendment proposes to apply those recommendations, where appropriate, to the recently acquired lands of the unit as well.

Discussion and management recommendations related to hunting and fishing can be found in Section III of this plan.

III. Recreational Resources and Human Uses

This Unit Management Plan Amendment proposes the development of wildland recreational facilities in the Vanderwhacker Mountain Wild Forest, working in concert with the High Peaks Wilderness Complex UMP Amendment. Each section below builds on the planning process as well as the recreational experience of the user. In addition to official documents, which inform the UMP process, the Planning Team applied principles and strategies that are currently considered norms in the field of Wildland Recreation Management.

There are 6 best management practices that are identified as essential in successful wildland management. Essentials for Wildlands Management include:

1. Planning- Includes the UMP Process (with public participation), Work Planning, development of guidelines and other supportive materials, and process and building partnerships with stakeholders.
2. Education and Outreach- Includes providing effective education and outreach for visitors, local government, and communities and partners utilizing all mediums available and covering topics from preparedness to stewardship.
3. Front country infrastructure- Includes roadside access points, human waste facilities, visitor information and other support facilities.
4. Backcountry infrastructure- Includes trails, campsites and support facilities appropriate to educate and protect the natural resource.
5. Limits on use when all else fails- When education and outreach along with appropriate infrastructure improvements cannot support the carrying capacity, different methods of limits on use permits or fees should be utilized.
6. Resources both personnel and funding- Includes staff to facilitate management, maintenance and safety concerns and appropriate funds to maintain such lands, and educate and expand opportunities for partnerships.

As part of the comprehensive process of managing the Vanderwhacker Mountain Wild Forest and adjacent units, many of the proposals in this amendment will follow a process of conditional implementation, which is done through a data-based phasing process. Where these conditional management actions are listed, the Department will evaluate current conditions as part of considering the implementation of these proposals. While authorization for these conditional proposals is being sought at this

III. Recreational Resources and Human Uses

time, some may never move forward if the natural resource conditions or human use patterns don't support their implementation. The Department will adhere to the 6 Wildland Management BMPs and successfully build and manage recreation facilities that do not negatively impact the natural resources or wild experience of the user.

A. Carrying Capacity

The Vanderwhacker Mountain Wild Forest, like any other natural area in our Forest Preserve, cannot withstand ever-increasing and unlimited visitor use without suffering the eventual loss of its essential natural and wild character. However, the underlying question of how much use and of what type the whole area - or any particular site or area within it - can withstand before the impacts of such use cause degradation of the very resource or experience, remains. Such understanding and determinations are a wildland manager's most important and challenging responsibility. Our primary goal throughout this amendment is to strike and maintain a proper balance of making sure a natural area's "carrying capacity" is not exceeded while concurrently providing for visitor use and enjoyment.

DEC is committed to providing a framework that allows an informed and evolving process to help guide the management of the lands in, and surrounding the newly classified Boreas Ponds and MacIntyre Tracts. Utilizing a phased approach for developing access points and recreational infrastructure that is tied to monitoring the Carrying Capacity through utilizing the Limits of Acceptable Change (LAC) framework will ensure that the wild character of the area and user experience is kept intact.

Proposed Management Action Steps outlined in this plan will follow a phased approach (Section U, Phases of Implementation) with decisions to implement successive phases informed by wild land monitoring, planning and utilization of the LAC framework. Monitoring will inform land managers on the need to address any unacceptable changes in the current phase, or the benefits that can be seen by proceeding to the next phase.

Background

Defining the amount and type of use that an area can withstand before negative impacts to the resource or user experience occur is a significant challenge. Relative differences in ecosystem sensitivities to disturbances need to be considered in recreational planning. Avoiding sensitive sites or taking precautions in the layout and design of any facility can drastically reduce negative impacts associated with use. Individual locations

that can withstand more usage should be considered to help balance the overall carrying capacity of the unit.

The term "carrying capacity" in public lands management, where public recreation is the leading use, means the amount of use that any single facility or the entire complex can handle without degrading the resource or the perceived experience of the user. Given the many variables associated with measuring carrying capacity, it can be a challenging concept to both understand and measure. While it can be helpful to establish upper-level thresholds for use, there is not an exact science on how to consistently set these thresholds across all variables. Taking steps to address the micro-level of carrying capacity, such as addressing erosion and compaction of trails and campsites, may not always address the greater concept of carrying capacity that occurs at the whole-unit level.

Essentially, this is because the relationship between the amount of use and the resultant amount of impact is not linear. For some types of activities, for instance, most of the impact occurs with only low levels of use. In the case of trail erosion, once soil starts to wash away, additional foot travel does not cause the impact upon the trail to increase proportionately. It has been discovered that visitor behavior, site resistance/resiliency, type of use, etc. may actually be more important in determining the amount of impact than the amount of use, although the total amount of use is certainly still a factor.

More recent carrying capacity studies have relied on the social aspect of recreation, in that users often have a pre-conceived idea of what type and level of use they want to experience on a given trip. This could be in the form of number of paddlers on a water body, hikers passed on the way to a destination, or how much solitude they want to experience at a primitive tent site, etc.

This makes the manager's job much more involved than simply counting, redirecting, and (perhaps) restricting the number of visitors in an area. Influencing visitor behavior can require a well-planned, multi-faceted educational program. Determining site resistance/resiliency always requires research (often including much time, legwork and experimentation). Shaping the types of use impacting an area can call not only for education, research and development of facilities, but also the formulation and enforcement of a set of regulations which some users are likely to regard as objectionable.

Nevertheless, the shortcomings of a simple carrying capacity approach have become so apparent that the basic question has changed from the old one, "How many is too many?" to the new, more realistic one, "How much change is acceptable?" DEC

III. Recreational Resources and Human Uses

embraces this change in approach while recognizing the tasks it calls for in developing the best foundation for management actions. Professionally-informed judgments must be made such that carrying capacity is given definition in terms of resource and social conditions that are deemed acceptable; these conditions must be compared with real, on-the-ground conditions; certain projections must be made, and management policies and actions must be drafted and enacted with an aim toward maintaining or restoring the conditions desired.

In the case of the Boreas Ponds and Macintyre Tract, public recreation is a new land use. Pre-existing data in the form of facility conditions and use numbers do not exist, so a baseline for which to work from has not been established, therefore we do not know what the actual carrying capacity of the newly acquired lands is. This introduces another layer of complexity in the carrying capacity question. A common way to directly manage the number of recreational users in an area, although varied in success, is through specifically sized parking areas. This often works well when the parking area services only one trail, or one hand carry launch, etc. The complexity of the issue increases as multiple facilities are managed through one trailhead. A great example of this is the Four Corners Parking Area on the Boreas Tract in the Vanderwhacker Mountain Wild Forest. This parking area could service several user groups simultaneously, like paddlers for LaBier Flow and Boreas Ponds, hikers for White Lilly Pond or Allen Mountain, equestrian use along Boreas Road, and primitive camping throughout the area. This also introduces another consideration, in that management of the Vanderwhacker Mountain Wild Forest not only has to take into account the carrying capacity of the lands within the unit itself, but also the neighboring lands like the High Peaks Wilderness Area.

The motorized access and parking sections in both the Vanderwhacker Mountain Wild Forest and High Peaks Wilderness Complex UMP amendments, along with access points on easement lands, describe the size and locations of the proposed parking areas along with the associated proposals regarding maximum occupancy and roadside parking. These proposals set a baseline from which to allow access during phase 1 of implementation. As stated above, environmental sensitivity directly effects the carrying capacity of an area. Associated hand boat launches, trails and tent sites in phase 1 will be built from these motorized access and parking proposals. Building each facility in the most sustainable manner and location possible, along with balancing the design of each component to enhance the user's experience, will serve to simultaneously protect the natural environment and enhance the user's experience. Upon completion of construction the monitoring mechanisms described later will commence, which will guide management decisions related to the various phases.

The intent of this approach is to provide a variety of access to the property and to new purpose built recreational facilities in a way that allows the Department to keep track of use numbers and physical changes on the ground. After data is collected and ground conditions are observed the recreational carrying capacity can better be measured through several indicators discussed below. Sustainable purpose built facilities are a key factor in this process, not only to have a strong foundation for recreational use, but also so we can evaluate the known indicators. Once the condition of facilities is measured and evaluated through the LAC framework the next steps can be determined in accordance with the phases set forth below.

The use of this phased approach to develop facilities allows the Department to provide realistic timelines for the development of sustainable and enjoyable facilities. It also helps to minimize low-quality facilities that are underused in favor of creating locations that will help realize and balance all levels of carrying capacity. In order to further illustrate the succession of the phased approach the schedule of implementation at the end of this UMP Amendment was developed. The schedule is initially based on providing access to the tracts, followed by the construction of basic recreational facilities tailored to specific types of recreation. Once constructed, each facility will be photo documented to show its original condition, then periodically photo documented to illustrate changes over time. These photos coupled with use data collected from register sheets will be evaluated through the LAC process to illustrate the recreational carrying capacity of specific facilities. From there, the data collected on these individual facilities will be looked at on a larger scale that takes into account the entire network of facilities and access points regardless of land classification. An example of this is the recreational access that parking areas along Gulf Brook Road provide for facilities like the Boreas Ponds Trail and Boreas Mountain Trail which serve both the Wild Forest and Wilderness areas.

The phased approach and schedule of implementation integrates and takes into account the complex nature of the area, which will allow for a more balanced and systematic approach to address the carrying capacity of the area as a whole. Phase 1 in the schedule provides the strategy to construct the foundation of facilities. The evaluation of these facilities will guide the phases of this plan, and only after the condition of these facilities is evaluated, can a determination be made to proceed with, maintain current, or retract the phases of the schedule. There are various environmental criteria that can activate the phases of the plan. These may be site specific or at larger scales and can include things such as campsite compaction and sprawl, vegetation damage, trail erosion, etc. Social criteria like frequent or high levels of tent site or trail use without environmental degradation can also prompt the next phases of the plan. Regardless of the criteria, the main objective is to appropriately

III. Recreational Resources and Human Uses

provide sustainable and desirable facilities without exceeding the carrying capacity of the land on which they are located.

Clearly, a delicate balancing act is called for, and yet just as clearly, the Department's management focus must remain on protecting the resource. A central objective of this amendment is to lay out a strategy for achieving such a balance within the newest additions to the Vanderwhacker Mountain Wild Forest, the unit as a whole, and the surrounding lands like the High Peaks Wilderness Complex. This strategy reflects important guidelines and principles, and it along with the guidelines and principles - has directed the development of the management proposals detailed below and in the following sections of this amendment.

Recreation Research Findings and Management Implications

Any recreational use in the High Peaks Wilderness Complex and Vanderwhacker Mountain Wild Forest will have some level of adverse environmental impact. Impacts from hiking and camping typically follow a natural progression. Initial and very light use may only damage particularly fragile soils and vegetation. However, even at low levels of use, the groundcover and surface organic litter are damaged. With moderate use, all but the most resistant plant species are lost on the developed area and mineral soils may be exposed. High use exposes mineral soils to compaction and erosion, which in turn expose the roots of trees.

Recreation impacts are related to visitor use levels in a curvilinear fashion. For example, a study of wilderness campsites in Minnesota found that only 12 nights of campsite use per year caused substantial impact. However, further increases in use caused little additional change for most forms of impact (Marion, 1998). Considering the popularity of camping in the HPWC and VMWF, most, if not all, campsites show evidence of substantial impact. However, it is also likely that continued use will have little additional adverse impact on those campsites.

One important implication of the curvilinear use/impact relationship is that nearly all use must be eliminated to achieve significant reductions in recreational impact. In other words, the only way to completely eliminate adverse impacts of hiking and camping throughout the tracts would be to close the area to all public use. However, a more realistic approach is to minimize impact by managing other factors to help mitigate adverse environmental impacts. <http://www.cnr.vt.edu/forestry/cpsu/Rececol1.gif>

Use-Related Factors. Many impacts are the result of uninformed or careless behavior. Managers can educate and regulate visitors to reduce high impact behavior (e.g., building fires, chopping on trees, cutting through switchbacks) and encourage low

impact behavior such as the “leave no trace” program. Large groups have a greater potential to damage resources than the same number of individuals spread across smaller groups. Limits on group sizes can be encouraged or required to minimize resource impacts. A defined camping season which only allows camping for a few months, rather than throughout the year, may also have some benefit.

Environmental Factors. Managers can encourage recreational use in impact resistant locations. For example, trails can be located or relocated to avoid wet areas and steep slopes and tent sites can be located on flat, well drained areas.

<http://www.cnr.vt.edu/forestry/cpsu/Rececol2.gif> Knowledge of the relative resiliency (ability to recover) of different vegetation and soil types can be used to select areas which will quickly recover following recreational trampling. Sites with high resiliency are also desirable because they usually support dense vegetation which helps confine the use of tent sites and trails to their desired locations.

Managerial Factors. Managers of some protected areas have sought to minimize impacts by encouraging visitor dispersal. However, due to the use/impact relationship and a number of behavioral factors, this impact-minimization strategy has only been successful in areas which receive low use. Therefore, this strategy would not likely to be effective in these new tracts because of the potential for high levels of use.

Other Considerations. Most visitors prefer hiking on established trails and camping at existing campsites. Many visitors enjoy camping close to trails and other groups for social reasons, while others fear getting lost when away from trails. Areas with rugged terrain and/or dense vegetation may limit the ability of visitors to hike off-trail or the number of suitable camping locations necessary to support a dispersed camping policy. Pre-existing trails and campsites are also more convenient, comfortable, and require less work to use and maintain. Finally, water and other scenic attractions in the backcountry will always attract larger numbers of visitors than less interesting areas. In general, management efforts to alter these natural tendencies will be unsuccessful without substantial and expensive educational and law enforcement programs (Marion, 1998).

Recreation research shows that visitor containment, or concentration, in the Forest Preserve offers a promising strategy for minimizing recreation impacts. Trails, which concentrate use on their treads represent one form of containment. Similarly, mandating use of designated campsites also contains visitors to sites that have already been impacted. Campsite rotation programs have also been considered in the past. However, recovery rates on campsites and trails are considerably lower than initial impact rates, which mean that a rest-rotation strategy will generally be ineffective (Marion, 1998).

III. Recreational Resources and Human Uses

Examples of Cause

The most heavily-used areas will usually show the most effects from use. However, there are several factors which can mitigate heavy use or amplify the effects of lighter use. One factor is the condition of a facility at the time that the use occurs. For example, a few people walking a trail when the trail is wet and soft will cause more damage than a large number of people using the same trail when it is dry. Another factor to consider is the skill level and behavior of the users. A large group may not leave any evidence that they used an area, while a small group or even an individual can, through willful neglect or ignorance, leave an area permanently altered. A third factor to consider is the design and location of the improvement that is being used. A properly designed and located facility will allow for heavy use without having a negative impact on the resource. Poor facility design or location can lead to amplified deterioration of the resource.

Many land resource problems tend to expand with time, if they are not addressed. For example, muddy sections of trails result in an expansion of the muddy area and loss of vegetation as people, trying to stay dry, walk around the wet areas. Another example is people who visit a tent site which already has a litter problem are more likely to leave their own trash behind. For this reason, it is important to take action when a problem arises

The most noticeable recreation impacts (such as trail erosion, trash, and tree injuries) receive most of the management focus. Recreation can also result in impacts to biological communities that are not as noticeable (Larson, et al, 2016), yet these impacts should still be considered. These impacts are not limited to the physical spot where the use occurs, but extend for a distance. While major portions of the planning area receive significant recreational use, there are other areas that see little to no use. Areas that receive significant use are generally near lakes, ponds and trails. Little used areas may have herd paths that pass through them, but generally lack developed facilities. The greater the distance from heavy recreational use, roads, and developed private property, the more wild character the area will have and impacts to wildlife will be lesser.

Water Resources

Waterbodies in the High Peaks Wilderness Complex and Vanderwhacker Mountain Wild Forest are impacted by recreational use. These impacts come from the use that occurs on the water itself and on the adjacent lands. Primitive tent sites, trails, and parking areas are examples of facilities on land that could impact an adjacent waterbody. Different impacts are associate with different recreational uses.

The Department and the Adirondack Park Agency are currently working on developing carrying capacity guidance for waterbodies. Upon adoption of waterbody carrying capacity guidance, those standards will be adopted and applied in the units. In the interim this plan calls for monitoring all the recreational land based uses and actions will be taken to minimize impacts.

These management concepts form the basis of the proposed management actions presented in this UMP Amendment. This approach will require flexibility, determination and patience. It may not be possible to complete all inventories and assessments called for by this strategy - and by the APSLMP - in this plan's time frame. It will be important to show progress in achieving APSLMP goals and in gaining initial managerial experience and knowledge in applying this strategy to some carrying capacity questions and issues. Knowledge gained as a result of the implementation of these UMP amendments will be useful to: 1) revising and refining management actions if evaluation shows that desired conditions are not being attained or sustained; and 2) creating a foundation upon which this strategy can eventually be built into a fully-developed, science-based approach to protecting and managing the resources of the VMWF and HPWA

Proposed Management

Management and Planning Concepts

The long-term approach for managing the tracts will use a phased approach for the implementation of facilities, guided by monitoring following the Limits of Acceptable Change (LAC). Given the numerous variables impacting the management of a large wildland complex, DEC acknowledges this process will evolve over time and utilize appropriate resources that are emerging across public land management agencies. The U.S. Forest Service White Mountain National Forest Wilderness Appendix is an impressive model that helped form the Department's planning process. As the Wildland Monitoring Program is developed DEC will utilize aspects of the recently developed Visitor Use Management Framework (developed by the Interagency Visitor Use Management Council, which is made up of the federal public land agencies.)

Limits of Acceptable Change (LAC)

This method employs carrying capacity concepts, not as prescriptions of the total number of people who can visit an area, but as prescriptions of the desired resource and social conditions that should be maintained to minimum standards regardless of use.

III. Recreational Resources and Human Uses

Establishing and maintaining acceptable conditions depends on well-crafted management objectives which are explicit and draw on managerial experience, research, inventory data, assessments and projections, public input, and common sense. When devised in this manner, objectives founded in the LAC Framework models essentially dictate how much change will be allowed (or encouraged) to occur and where, as well as how to respond to changes. Indicators (measurable variables that reflect conditions) are chosen, and standards (representing the bounds of acceptable conditions) are set, all so that management efforts can be effective in addressing unacceptable changes. A particular standard may be chosen so as to act as a simple trigger for management action or it may be chosen to act as a kind of boundary which - given certain assessments - allows for management action before conditions deteriorate to the point of no longer meeting the standard.

Even well-conceived and executed efforts can prove ineffective, but the implementation of LAC will show the land manager if facilities are effectively working in the way that they were designed. If efforts do prove ineffective, management responses must be adjusted. Monitoring of resource and social conditions is absolutely critical. LAC models rely on monitoring to provide systematic and periodic feedback to managers concerning specific conditions.

In outline, the Department's approach applies four factors in identifying potential management actions for an area:

1. The identification of acceptable conditions as defined by measurable indicators;
2. An analysis of the relationship between existing conditions and those desired;
3. Determinations of the necessary management actions needed to achieve desired conditions;
4. A monitoring program to see if objectives are being met.

A proposed list of management and planning concepts, for which measurable indicators and monitoring tools can be developed, may be used by the Department for measuring and evaluating acceptable change within the units:

- Condition of vegetation in camping areas and riparian areas near lakes and streams;
- Extent of soil erosion on trails and at campsites;
- Noncompliant visitor behavior;
- Noise on trails, adjacent campsites and other areas where impacts occur;
- Conflicts between different user groups;
- Diversity and distribution of plant and animal species;
- Air and water quality.

The adoption of Indicators and Standards for measuring impacts helps create a consistent and reliable methodology in monitoring impacts. While LAC will be the main methodology to guide management decisions and actions, it is important to note the overall goal is to preserve wild land conditions. The White Mountain National Forest Land and Resource Management Plan provides a great example of what the Department is trying to achieve in establishing a well-rounded and useable method of informed decision making through monitoring. Indicators are tools used to assess the resource or social conditions of a given area and are not always a direct measure of the actual conditions of a facility. The indicators set standards which act as thresholds to determine if and what management action will be taken. It is accepted and assumed that sustainable and purpose built facilities will experience minimal soil compaction and vegetation loss outside the developed tread or area, and will readily shed water without holding it or causing erosion. These assumptions need to be re-assessed over time. If the facilities are maintaining their intended condition then they can either be maintained as is, or the land manager can proceed to the next phase of the plan. If the condition of the facility is failing and our assumptions are not being met then corrective adjustments need to be made, which could involve anything from hardening and re-routes, to taking a step back to a previous phase of the plan.

Regular and consistent monitoring is critical for this framework to be successful. Without the regular measurements of the indicators and comparison to the established standards it is not possible to understand the degree to which we are able to achieve Wild Character integrity.

Based on the LAC framework outlined above, we chose four categories of indicators as significant identifiers of resource concerns. Those indicators fall into the categories of biophysical, social, aesthetic, and ecosystem process. Each is described below, along with a short excerpt from the Wilderness Definition from the SLMP that served as the primary (though not entire) focus in determining the scope of that individual indicator. See Table 5 below for a summary of these indicators.

Biophysical Indicators

These are measures of the effects of human activity on the biological health and quality of the environment. They are typically large-scale and are often influenced most significantly by actions and events outside wild lands. These indicators are categorized distinctly from others because the primary concern is for the health and quality of ecosystems and ecosystem components such as watersheds, air quality, wildlife and vegetative populations, rather than for the quality of the human experience.

III. Recreational Resources and Human Uses

Social Indicators

These measures are immediate and local, involving direct contact among wild land users and between wild land users and agency personnel. These indicators are distinct from others because they are strictly a measure of how people affect other people, and the primary concern is for the human experience in terms of type, quality, and frequency of interaction with others. For example, do users change their route or destination as a result of other users on a trail, or do users not use a facility like a lean-to or tent site because its over use is resulting in degradation? These experiences may have a direct link to the quality of the ecosystem or the appearance of the surrounding landscape.

Aesthetic Indicators

These are measures of how direct human effects on the immediate landscape affect the human experience of the area as wild land. They typically are local in scope, are constrained to an immediate area, and result primarily from recreational use.

These indicators are distinct because the primary concern is for the human experience derived from the immediate, local landscape. These are measures of both human-caused impacts to a biophysical resource and the resulting effects of those impacts on the wild land experience. However, these types of impacts are unlikely to have lasting, significant effects on the larger-scale health of ecosystem components. As such, the driving force to mitigate them stems from the human experience, which often results in these corrective measures being easily achievable through public will.

Ecosystem Process Indicators

These measures of process and change on the land occur separately from the direct influence of human action. They are usually broad scale and large in scope. These indicators are distinct from others because in many cases there is no direct human involvement in the process affecting change on the land. However, in recognizing the need for baseline data to inform management decisions, these processes should be monitored closely to understand natural change in the area.

Wild Land Management Process Application

Biophysical Indicators

Indicators may include air quality, water quality, threatened and endangered species, invasive species, and indicator species (see Table 5 below). Though invasive species and indicator species concerns are often part of ecosystem processes (and are listed as such here), they will be treated in this plan as biophysical issues.

Standards will be common to all zones to preserve the wild character of the area.

Management Actions may not affect individual sites, depending on the scope and source of the exceeded standard.

Though in many cases the effects and actions available to manage and administer wild lands in terms of these indicators are site-specific and within control of managers, they are sometimes beyond the manager's administrative scope (e.g., air quality issues). Standards are set, and methods to measure and ensure that these standards are met involve other federal or state laws, other federal and state agencies, and other disciplines.

Social Indicators

Indicators may include number of contacts per given segment of trail per survey period, number of contacts per given destination point per survey period, assessments of visitor experience, and perception of crowding at determined destination points (see Table #5 below).

Standards are based on use trends as monitored at the same locations and the same times from year to year. A range of survey locations will be determined across the unit.

Management Actions triggered by exceeding standards will include a focused examination of management actions, policies, and general recreation trends that may underlie the specific issue. The level of tolerance and restriction represented by management actions may differ by zone. There are tools available to manage and administer wild lands in terms of these indicators, however they are sometimes judged to be ineffective. Because of their often seemingly arbitrary nature, numerical standards in these cases are extremely difficult to set and even more challenging to justify; visitors in some areas have indicated a greater acceptance of higher use levels than increased managerial regulation. Nevertheless, management actions may involve implementation of use restrictions or limitations.

Aesthetic Indicators

Indicators include campsite density, campsite size, and frequency of litter and exposed human waste (see Table 5 below).

Standards are set for each indicator and often vary by area.

Management Actions activated by an excess of standards will often involve direct manipulation of campsites, an increase in managerial presence in the affected area,

III. Recreational Resources and Human Uses

and in extreme situations may involve the implementation of use restrictions or use limitations.

We have many tools to manage and administer wild lands in terms of these indicators. Furthermore, clear standards may be set based on the values used to determine current and desired resource conditions. Management actions to mitigate impacts in these areas are usually justifiable and commonly acceptable to visitors.

Ecosystem Process Indicators

Indicators may include ecological indicator species, natural fire, natural disturbance, and invasive species (see Table 5 below).

The information presented above represents several of the concepts and theories for addressing Carrying Capacity and developing processes to monitor impacts. This represents the basis for our overall plan, Standards and Management Actions are largely dictated by a Wildland Monitoring Plan. Upon approval of the UMP Amendments, land managers for the High Peaks Wilderness and Vanderwhacker Mountain Wild Forest will take the concepts discussed to create a Wildland Monitoring Plan that will be used in conjunction with the Work Planning process to implement proposals. Tools to monitor Wilderness in terms of these indicators are largely based in the natural sciences. These processes must be carefully monitored to increase understanding of Wilderness conditions.

Table 5 – Wilderness Indicator Table

	Wilderness Character	Indicators	Standards	Management Actions
Biophysical-Human effects on the land. Primarily broad scale.	"...an area...having a primeval character ...protected and managed so as to preserve its natural conditions.... generally appears to have been affected primarily be the forces of nature."	• Air Quality • Water Quality • Wildlife/TES • Invasive Species • Indicator Species	Standards are often defined by other legislation and measured by specialists other than Wilderness Managers.	Excess of standard may activate action, but most likely will no greatly restrict Wilderness recreation opportunities
Social-Direct and immediate human effects on other humans.	"...outstanding opportunities for solitude or...unconfined type of recreation."	• Visitor Use, Trail • Visitor Use, Destination • Experience Quality • Perception of Crowding	Standards are definable and measurable, but can be viewed as subjective and arbitrary.	Excess of standard activate focused examination of management actions and policies. Data informs our decisions-making and serves warning that use-related problems may increase
Aesthetic-Human effect on the land that primarily affects the experience by other humans of an area as Wilderness.	"...without significant improvements or permanent human habitation...with the imprint of mans work substantially unnoticeable...outstanding opportunities for primitive...recreation."	• Campsite density • Campsite size • Litter and human waste	Standards are definable and measurable.	Excess of these standards activate controlling actions on Wilderness Visitors
Ecosystem Process-Change and effects on the land not directly influenced by human action.	"A wilderness area, in contrast with those areas where man and his own works dominate the landscape, is as an area where the earth and its community of life ae untrammled by man."	• Presence of ecological indicator species • Absence of natural fire/disturbance • Invasive species	Dictated by Wildland Monitoring Program.	Dictated by Wildland Monitoring Program

Objectives

- Utilize a phased approach to facility implementation that is informed by the LAC Framework.
 - Proposals in this document that are intended as subsequent phases are referred to as conditional actions.
- Collect baseline data related to recreational use and the physical condition of the newly acquired lands.
- Establish and implement a regular and reoccurring Monitoring Program based on LAC and other available methods to help track changes to the unit over time.

III. Recreational Resources and Human Uses

- Use the latest best management practices (BMPs) available in the siting and construction of all facilities
- Provide consistent messaging with partners to help educate users.
- The Department is committed to implementing a Carrying Capacity based phased approach through this UMP Amendment. To ensure the success of the proposed process, the Department will devote the necessary staffing resources to make sure all 6 of the BMPs for Wildland Management are given the resources needed. Quality data derived through this process will lead the Department in making the best decisions available to protect the resource and user experience.

Action Steps

- Develop the Wildland Monitoring Plan that will be utilized in the High Peaks Wilderness and Vanderwhacker Wild Forest to monitor the implementation process. DEC will convene a focus group following approval of the UMP Amendment to develop the Wildland Monitoring Plan within the first year of the approved UMP Amendment.
 - The Wildland Monitoring Plan will layout the methodologies for sampling and measuring, specify indicators and provide a framework for processing the data collected during monitoring efforts.
 - Following the adoption of the Wildland Monitoring Plan DEC will submit a work plan which will layout the timeline and resources needed for the Wildland Monitoring Plan.
 - After 5 years, the Wildland Monitoring Plan will be reviewed and the effectiveness of the monitored variables will be evaluated. If changes are needed, DEC will make appropriate adjustments to reflect the best methodologies available at the time.
- Develop an annual report including the status of the Wildland Monitoring Plan, implementation progress, usage trends and identify issues impacting the Wild Forest.
- Collect and tally trail register information on an annual basis
- Monitor facilities like parking areas, tent sites, and high-use trails and climbing areas on a periodic basis for comparison over time. These monitoring efforts will involve data collection through photo documentation, visual observations, use number data, etc. Preference will be given to variables that will help guide management decisions.
 - Data that may be sampled (specifics in Wildland Monitoring Plan)
 - Erosion and Compaction;
 - Occurrences of litter and human waste;

- Expansion of use beyond the designed area;
 - Visual and Audio sampling during peak and off peak times;
 - Need for enforcement actions, etc.
- Use a phased approach when constructing new facilities. This allows the Department to evaluate and ensure the social and environmental carrying capacities are not being exceeded, and ensure there is a public desire for additional facilities before they are constructed. If monitoring efforts show the limits of acceptable change are being exceeded then management adjustments will be made, and the next phases of the plan will not be considered until corrective measures are successfully completed. This could hold or bring the management back to a previous phase.
- Site facilities in locations that provide long-term sustainability, keep overall maintenance to a minimum, and enhance the user experience
- Develop a visitor survey that focuses on monitoring the intangibles of user experience. Using various methodologies develop a survey that discusses user satisfaction, acceptance of crowding, perceived management conditions and other factors to gauge user experience. This survey should be completed on a 3-5 year cycle across the complex.
- Design, locate, and construct all new structures and improvements in ways that will minimize the potential for soil erosion.
- Monitor the site conditions at all facilities. If unacceptable change occurs, provide restoration to secure the disturbed areas in a manner that prevents erosion.
- Close, relocate, or restrict use of unit facilities, as appropriate, to reduce negative impacts to resources caused by recreational use.
- Provide educational materials the public can find through signage on site and also on the Department's website before their visit.
- Emphasize information and education as the primary means to reduce impacts and slow unacceptable levels of change.
- Provide outreach through on the ground interactions with Department representatives like staff, Assistant Forest Rangers, SCA Back Country Stewards, and volunteers.

B. Signage and Education

History

The Department and Partner Organizations have tried various methods to provide signage and educational efforts to help the visitors understand a variety of topics including rules, preparedness and interpretation. These have included signs, maps, posters, Assistant Forest Rangers on backcountry patrol, SCA Backcountry Stewards, WCS Bear stewards and our Forest Rangers to do outreach and education.

Existing Conditions

The Signage for the newly classified lands added to the Forest Preserve is sparse as the classification indicated what the needs were. Basic permissive signage has been put up and some boundary signage to help get the public to these new lands.

There are currently 2 Forest Rangers that cover the lands in Newcomb and North Hudson.

Proposed Management

Objectives

- Provide users with appropriate information at the start of their hikes and at locations in the backcountry covering natural resource protection, personal preparedness, directional assistance as well as rules to follow.
- Improve the opportunity for on the ground in person educational and information.
- Provide consistent messaging with partners to help educate users.
- Utilize communication technologies to protect the natural resources, educate people on wilderness values and empower individual preparedness to help visitors have an enhanced wilderness experience.

Action Steps

- Install a location map at each trail register to help orient users regarding additional land classifications or locations of specialized rules.
- Integrate the leave no trace (LNT) Principals and wilderness ethics into all messages

- Provide consistent trailhead signage across all trailheads to help reinforce key educational and informational messages.
- Install trailhead registers or kiosks at all parking areas.
- Install Interior Educational Signage Boards at key points with the purpose of providing outreach about land ownership changes, land classification changes, rules and regulations, and educational material. This consistent signage at trail/boundary interfaces will help educate visitors.
- Appropriate Trail Directional Signage provided along trails.
- Campsite Signage that provides educational and regulatory information.
- Past Ownership Signage or interior Boundary Signage will be removed as it is located.
- Provide appropriate staffing levels so the Department can provide education and outreach messages to users at popular trailheads and in the backcountry.
- DEC will take the lead and work with partners in local government, the tourism and recreation industry, advocacy groups, schools and other interested parties to effectively spread outreach and education to focus improving the public understanding of topics such as:
 - Forest Preserve classifications;
 - Leave No Trace principles and Wilderness Ethics;
 - Rules and regulations pertaining to the Vanderwhacker Mountain Wild Forest and other Forest Preserve lands;
 - User preparedness and backcountry safety.

C. Roads

History

The original access to the Boreas Ponds area was via a military road constructed after the War of 1812 to connect Port Henry and Sacketts Harbor. Later, a tote road, known as LaBier Road, was constructed along the Boreas River and connected Blue Ridge Road to Boreas Clearing, which is now the site of the historic log cabin. LaBier Road was used to transport loggers into the area and also the primary supply route from

III. Recreational Resources and Human Uses

Newcomb to bring grain, food, and other necessities into the logging camps. LaBier Road also made the construction of Boreas and LaBier dams possible in 1889. Evidence of this road can still be seen today in the form of re-vegetated road grades and even sections of telephone line.

Years of logging in the area expanded the seasonal haul road system that fed logs to Boreas Ponds and LaBier Flow. This eventually brought about the completion of Boreas Road in 1932, which stretched from Newcomb to Boreas Clearing and is still used today. In 1965, Gulf Brook Road was constructed between Boreas Road and Blue Ridge Road.



Branch Road looking south

Existing Conditions

The roads on the Boreas Ponds Tract are generally described as follows:

- Gulf Brook Road – 5.9 miles running between Blue Ridge Road and the four corner intersection north of LaBier Dam.
- Boreas Road – 4.3 miles running from Boreas Dam to the western property line with private property.
- Branch Road – 2.6 miles running from Blue Ridge Road north to the Elk Lake property line.
- Andrew Brook Road – 0.1 miles between Blue Ridge Road and the Andrew Brook Parking Area.
- East River Road – 1.8 miles from Tahawus, across the Hudson River and north to the Upper Hudson Woodlands Conservation Easement boundary.

Historically, the roads within the Boreas Ponds and MacIntyre tracts have been used somewhat sporadically and have received the same type of maintenance. When logging operations in the area dictated the need for maintenance, the roads were repaired and made usable for their purpose. When operations were complete the roads in use were brought to an acceptable standard for occasional lessee use, typically with high clearance four-wheel drive vehicles, and were then only minimally maintained to allow for occasional recreational access. Other than the Gulf Brook Road, The Nature Conservancy did little or no maintenance on the roads during their 10-year ownership of the property. The roads on these tracts have never been tested for ongoing public use

and especially not for general use by passenger cars. In 2016 and 2017, Gulf Brook was opened to a parking area approximately 3.2 miles in from Blue Ridge Road. It quickly became evident that improvements were needed, especially when considering the typically deep frost levels in the area. For the proposals below to be viable, extensive work will need to be performed to bring the roads up to a usable and sustainable standard. This will include the cleaning of existing ditches and culverts, replacement of numerous other culverts, some installation of new ditches, grading and proper crowning of the road itself and the addition of gravel to raise and smooth many areas. Beyond the initial improvements necessary, ongoing blowdown removal and biannual maintenance will be needed. Annual spring maintenance will include blowdown removal, brushing, grading and re-crowning, culvert cleaning and repair, cleaning clogged ditch lines and raking. The annual mid-season maintenance will ideally take place in the dry conditions typically seen in August, and would include raking and ditch and culvert inspections. The estimated maintenance work for Gulf Brook, Boreas, Branch, and East River roads is estimated to cost \$14,000 annually. This estimate is based on normal anticipated maintenance and does not cover significant repairs that will be necessary, such as occasional culvert and bridge replacements. For these major repairs, especially when outside contractors are necessary to complete the work, the cost will be significantly higher.

The maintenance activities are not only necessary for ongoing public motor vehicle access, but are also an important tool to keep a running inventory of road, bridge and culvert conditions. In addition to routine maintenance, there will need to be more in-depth road construction as sections of road, bridges and culverts fail over time. Estimated costs have not been developed at this time, but depending on the project, costs could be significant.

Desired Conditions for Forest Preserve Road Monitoring

The roads of the unit serve as public access to recreational facilities, administrative and emergency access to the lands the Department manages. Roads that are kept open for use will be maintained to a sustainable standard which protects environmental quality by resisting erosion and rutting, and will also allow for safe, unimpeded access by users. It is understood that normal wear and tear will occur, but these roads will be kept to a firm and stable standard that resists wear from natural and man-made actions. It is also important when maintaining these roads to do so in a manner that blends the road to its natural surroundings. The wild experience can be preserved as much as possible through being minimally invasive and blending work activities in order to maximize the public's enjoyment along their route. Like other recreational facilities, roads will be monitored as part of the Wildland Monitoring Program discussed throughout this

III. Recreational Resources and Human Uses

Amendment. Road monitoring variables will be evaluating evidence of erosion, rutting, deteriorated drainage devices like ditches and culverts, and occurrences of invasive species. The objective will be to maintain relatively undisturbed road surfaces that have properly working drainage devices which allow for safe and enjoyable travel. Photo points will be a useful tool to help illustrate potential changes over time.

Proposed Management

Objectives

- Improve and maintain road conditions to primary access points and parking lots for use by the public.
- Reduce negative impacts to the resource by ensuring motor vehicle use is restricted to designated and maintained roads.

Action Steps

- Monitoring for the desired conditions of Forest Preserve roads will help measure and determine impacts to better inform carrying capacity development and long term planning. Final specifics will be detailed in the Wildland Monitoring Plan but generally:
 - Desired conditions for roads will be ones that are firm, stable and well drained with minimal erosion, free of invasive species, has minimal expansion from the designed footprint of the built facility, does not negatively impact trailside vegetation, is free of occurrences of litter and provides an enjoyable user experience.
 - Monitoring could include photo and control point locations, surveys of erosion, invasive species, and occurrences of trash, and user surveys.
- Upgrade and maintain the entire 5.9-mile length of Gulf Brook Road (from Blue Ridge Road to the four corners) to a standard acceptable for three-season public motor vehicle and horse and wagon use. Upgrading will include the instillation of new culverts and ditches where necessary along with resurfacing the road over the majority of its length.
- Upgrade and maintain the 0.8-mile section of Boreas Road between the four corners and the parking area before Boreas Dam to a standard acceptable for three-season public motor vehicle and horse and wagon use. Upgrading will include the instillation of new culverts and ditches where necessary along with resurfacing the road over the majority of its length.
- Maintain the remaining 0.1-mile section of Boreas road from the parking lot to Boreas Dam will be maintained as an administrative road.

III. Recreational Resources and Human Uses

- Upgrade and maintain the remaining 3.4 miles of Boreas Road to the west of the four corners as a Forest Preserve road. Upgrading will include the instillation of new culverts and ditches where necessary along with resurfacing the road over the majority of its length. The road will be gated near the four corners, however, public motor vehicle access will be allowed during big game hunting season as road conditions permit. The gate will be opened in the fall and remain open until the close of the season in early December or when road conditions start to deteriorate or become a health and safety risk. Boreas Road will be open for horse and wagon use. Horse and wagon users intending to access the western portion of Boreas Road will be able to call the Department prior to their trip to obtain a combination to the gate.
- Install a gate across the old forest road to the north of the four corners due to its proximity to the wilderness boundary.
- Maintain the 0.1 mile Andrew Brook Road to a standard acceptable for three-season public motor vehicle use to the parking area and gate.
- Upgrade and maintain 2.2 miles of Branch Road to a gate on the north side of Bernie Pond. This will be maintained and managed as a three-season CP-3 “Motorized Access Program for People with Disabilities” (MAPPWD) route. The remaining 0.4 miles will be maintained as an administrative access road due to steep grades not being sustainable for public motor vehicle access. Upgrading will include the instillation of new culverts and ditches, in addition to resurfacing where necessary.
- Maintain East River Road between Tahawus Road and the Hudson River Bridge to a standard acceptable for three-season public motor vehicle use. The East River Road beyond the Hudson River Bridge will be an administrative access road. This is a shared roadway with adjacent private lands the Department holds a Conservation Easement on. Except for foot traffic, the conflicting user interest and the potential for industrial logging traffic do not make East River Road beyond the bridge a suitable corridor for public motor vehicle access. Public access beyond the gate at the bridge will be limited to foot traffic only.
- Replace damaged or undersized culverts with appropriately sized culverts, and re-surface and grade Cheney Pond Road. Also install a seasonal gate across the entrance of the road to protect the resource in inclement conditions.
- All proposed actions on the roads mentioned above are intended to provide safe public access to the tracts for as long as possible each season. Frost typically starts setting into the road around late October and typically does not completely leave until around Memorial Day each year. Frost within a seasonal road not only significantly degrades road conditions, but it is also a health and safety risk.

III. Recreational Resources and Human Uses

As wet conditions and frost set into the road bed in the fall, roads will be closed for the season and will not be re-opened until the frost has completely left the road bed in the spring. These dates will vary depending on weather each year so putting a firm opening and closure date is not an option. Likewise, significant weather events throughout the summer season may result in temporary road closures. Road closures will be accomplished through the closure of gates and information on road conditions will be posted on the Department website.

- Install barriers, wherever site specific constraints allow, that are passable by persons with disabilities.

D. Motorized Access and Parking

History

Past owners like the Bloomingdales, Finch Pruyn, The Nature Conservancy and associated recreational lease holders have accessed the Boreas Ponds and MacIntyre tracts at several different locations in the past and for various reasons, including general property management, forest operations, timber harvests and recreation. Many of these entry points are temporary or seasonal in nature and can be seen along the Blue Ridge, Elk Lake and Tahawus roads. Other, more prominent, access points were also developed at East River Road, Branch Road, and perhaps most notably at Gulf Brook Road.

Existing Conditions

Boreas Ponds Tract:

In 2016 six parking lots were developed to help facilitate access to the Boreas Ponds Tract. These included two on Elk Lake Road, one at the intersection of Branch and Blue Ridge Roads, one on Andrew Brook Road, and two on Gulf Brook Road. The Gulf Brook Road parking areas see the majority of the use. In inclement conditions, motor vehicles are kept to the first and southernmost 12-car parking area known as the Blue Ridge Parking Area. In late spring when road conditions improve, motor vehicles are allowed beyond this lower gate to the inner Gulf Brook Road Parking Area. This 20-car parking area, known as the Fly Pond Parking Area, brings users to within approximately 3.5 miles of the Boreas Dam and gets them beyond most of the elevation gain to the ponds. Both parking areas are suitable for cars and trailered vehicles.

The other 4 parking areas towards the periphery of the tract are typically used by people seeking short walks and by sportsmen. Once trails and other facilities are developed it is expected these lots will be used much more frequently. The 11-car parking area at the intersection of Branch Road and Blue Ridge Road, known as the Hoffman Notch Parking Area, is suitable for use by trailered vehicles and serves the Ragged Mountain area. The parking area also serves as the northern entrance to the Hoffman Notch Wilderness Area. The parking area on Andrew Brook Road is located about 500 feet north of Blue Ridge Road and can accommodate 5 cars or 3 trailered vehicles. The lower Elk Lake Road parking area can support three cars and is used to access the eastern side of The Branch. The upper Elk Lake Road parking area can support trailered vehicles and up to eight cars. This may be used to service the eastern side of the branch but is more commonly used to access the Elk Lake Easement and points beyond like Marcy Swamp, Panther Gorge, and the Colvin Range.



Upper Elk Lake Road Parking Area, 2016

In addition to these parking areas built specifically for the Boreas Ponds Tract there are also three parking areas located on previously existing Vanderwhacker Mountain Wild Forest property that service the southern portions of the Boreas Ponds Tract as well. The most notable is the Wolf Pond/Boreas River Parking Area. This is located at the intersection of the Boreas River and Blue Ridge Road and services the campsite in the back of the lot, fishing access and the Wolf Pond Trail and Lean-to. The next is the intersection of Blue Ridge Road and Cheney Pond Road. This site commonly serves as a hunter parking area in the fall and skier parking in the winter months. The last site, the Vanderwhacker Pond Parking Area, is an informal parking lot along Blue Ridge Road directly south of Vanderwhacker Pond. Across the road from the parking area is a herd path north to Vanderwhacker pond. This is commonly used by sportsmen that frequent the pond and surrounding areas.

MacIntyre East Tract:

Access to the MacIntyre East Tract can be gained roadside along Tahawus Road, at the Sanford Lake Parking Area near the Newcomb Sportsman's Club, and at the entrance to East River Road. Currently there is not a designated parking area here, but there is

III. Recreational Resources and Human Uses

room to park two to three cars along the shoulder of East River Road before the Hudson River Bridge.

Palmer Pond Tract:

The Palmer Pond Tract is located immediately west of the Adirondack Northway and borders Blue Ridge Road on the south, Palmer Pond on the west, and the High Peaks Wilderness Area (HPWA) on the north and east. This can be located roadside from Blue Ridge Road near Northway Exit 29.

Niagara Brook Tract:

Currently, parking facilities for the Niagara Brook Tract do not exist, but access can be achieved by parking along the shoulder of Blue Ridge Road and walking in on Niagara Brook Road, which is currently only improved to an industrial logging standard.

Hudson River Tract:

Currently parking facilities for the Hudson River Tract do not exist, but access can be achieved by parking along the shoulder of Campsite Road near the Lake Harris Public Campground or via the Hudson River.

Vanderwhacker Brook Tract:

The Vanderwhacker Brook Tract is an inholding within pre-existing Vanderwhacker Mountain Wild Forest lands so nearby parking is not an option here. Access could however be gained via bushwhack by parking along State Route 28N to the south of its intersection with Vanderwhacker Brook.

Raquette Brook Tract:

The Raquette Brook Tract does not have a designated parking area developed, but it borders State Route 28 for roadside access.

Minerva Stream Tract:

The Minerva Stream Tract is located between John Brannon Road and Irishtown Road. There is not a designated parking area here but it may be accessed where existing Vanderwhacker Mountain Wild Forest lands are intersected by Irishtown Road. Minerva Stream will need to be crossed in order to gain full access to the property.

Bullhead Pond Stream Tract:

The Bullhead Pond Tract is located to the west of State Route 28N and bordered on three sides by existing Vanderwhacker Mountain Wild Forest land and on one side by

private lands. The closest parking area is the Stony Pond Trailhead and the tract can be accessed via the Lost Pond Mountain Trail.

North River Tract:

The North River parcels along the western side of the Hudson River are accessible from State Route 28, and are most often used by rafters and kayakers accessing the river. There are existing several pull-offs between Route 28N and the Hudson River that are used to access the river, but there are no parking areas located on Wild Forest lands. The Department of Transportation has three pull-offs between Route 28 and the Hudson River that are commonly used to access the river of by people seeking a scenic roadside vista. The larger parcels on the east side of the river may be accessed by water from the Hudson River, or by land through previously existing Forest Preserve lands off the end of 14th Road in Minerva.

Desired Conditions for Trailhead Facility Monitoring

There are numerous parking areas that serve as entry points to the front and backcountry. Properly designed and managed parking areas will maintain their firm and stable surface with minimal maintenance, and allow unencumbered parking for the designed number of vehicles. This not only maximizes environmental protection, but also user safety, function and enjoyment. Appurtenances to the parking areas like privies and gates should also be maintained in a clean and functional working condition. Like roads and other facilities described, parking areas can add to a user's positive experience if it blends well with the natural area and is kept free of trash and human waste. The variables to be monitored in parking areas will be the presence of a firm and stable surface that is smooth and easily accessible by the public, along with clean sanitary conditions including properly maintained privies and an absence of trash. Photo points will be a useful tool to help illustrate potential changes over time.

Proposed Management

A discussion of alternatives related to parking and access that were considered as part of this UMP amendment can be found in Appendix B.

Objectives

- Provide and manage adequate trailhead facilities to both protect resource values and accommodate visitor needs.
- Use parking areas to manage interior use by balancing parking lot capacities with resource and recreational carrying capacities.

III. Recreational Resources and Human Uses

Action Steps

- Monitoring for the desired conditions of parking areas will help measure and determine impacts to better inform carrying capacity development and long term planning. Final specifics will be detailed in the Wildland Monitoring Plan but generally:
 - Desired conditions for parking areas will be a firm and stable surface that has minimal expansion from the designed footprint, well maintained privies and gates, is free of occurrences of litter and human waste and adds to the overall user experience.
 - Monitoring could include photo point locations, control measuring points, survey of invasive species, surveys of visual occurrences of trash, and user surveys.
- Include improved signage at parking areas and trailhead facilities that will include maps at trail registers.
- Designate accessible parking spots and unloading zones at all significant parking areas.
- Install accessible privies, kiosks, and other accessory structures at all significant parking areas.
- Monitor access points and trails for illegal motorized uses and resource damage. Where it is occurring, create or install appropriate barrier structures to stop this illegal use of the Forest Preserve.
- Maintain four of the existing six parking lots constructed in 2016 to the current size and condition. Upper Elk Lake at 10 cars, Hoffman Notch at 10 cars, Blue Ridge at 10 cars, Fly Pond at 21 cars, and Andrew Brook Road at 8 cars. All of these parking areas can accommodate trailered parking as well. The Lower Elk Lake Road lot will be discussed later.
- Add signage on Gulf Brook, Boreas, Branch, Andrew Brook, and East River roads indicating parking will be allowed in designated spots only. Parking along the shoulder of Forest Preserve roads on the Boreas Ponds and MacIntyre tracts is not permitted. If signing the roads against parking proves to be ineffective and parking along the road shoulder begins to cause congestion, Forest Preserve encroachment, or health and safety concerns, this UMP amendment is in favor of supporting a regulation prohibiting parking outside of a designated parking space within the Boreas Ponds and MacIntyre tracts.
- The Blue Ridge Parking area can currently accommodate either 10 cars or 3 trailered vehicles before access becomes difficult. The difficult ascent and rocky nature of Gulf Brook Road beyond the Blue Ridge Parking area makes the Blue Ridge Parking area very attractive for trailered vehicles, especially horse trailers. This parking area will be expanded to the east and the west to create more area

for parking outside of the loop. The western side will need tree cutting and excavation into the bank. The eastern side will need some tree cutting and can utilize the material being extracted from the west for fill. In addition to the parking expansion at the top of the hill the overall footprint of Gulf Brook Road between the parking area and Blue Ridge Road will be widened approximately 15 feet. This area will include the instillation of new ditches. This area also drops off from Blue Ridge Road and climbs sharply to the parking area. The upper end of this slope can be excavated, and the removed material can be added to the lower portion of Gulf Brook Road, adjacent to Blue Ridge Road. The additional width and reduced slopes will allow for linear parking along the access road. When complete, the parking area will be able to serve 12 cars and four trailered vehicles. The additional space will also make snow plowing by our partners more manageable.

- Construct a six-car parking area 1/10 of a mile from Boreas Dam. An accessible informational kiosk, signage, and bike rack will also be installed here. All six parking spots will meet accessible standards. Parking at the Boreas Dam Parking Area will be limited to single day use to increase the opportunity the public can access the parking area. Users seeking longer stays will need to park at the Four Corners or Fly Pond Parking Areas.
 - Four of these spaces will be available by permit that will be issued through the Reserve America System. Permits will be issued on a first come, first served basis at no charge. Permittees will obtain a key to access the parking area at the proposed Frontier Town Campground and Day Use Area Registration Ticket Booth during open hours or an alternative location. Permittees will need to have their check-out time clearly posted on their dashboard and visible through their windshield (as is done on the back of the campground paperwork for people who are camping). The Forest Ranger for the area will be able to receive information from the campground registration booth about who is registered to be parking in the parking lot and vehicle information for them. The Ranger can then, when on patrol, know who should be parked in the lot and for how long. To ensure the return of the key by the appropriate check out time there will likely need to be an incentive to ensure the timely return of the key and allow access for the next individual.
 - Two spaces will be available to CP-3 permit holders, who will receive the combination to the gate beyond the Four Corners Parking Area. These CP-3 spaces cannot be reserved, but are first come, first served like all other CP-3 opportunities offered throughout the Park. If CP-3 permit

III. Recreational Resources and Human Uses

holders want a guaranteed parking space, they can reserve one of the other four permitted spaces through the Reserve America System.

- Construct a new parking area near the Four Corners area of the Boreas Ponds Tract. An existing clearing will be improved to accommodate 10-15 cars. One parking space and an adjacent unloading area will be designated for people with disabilities and the remaining spaces will be for universal access. Parking spaces will be marked on site. Grading and fill will be necessary to construct the parking area to current accessible standards. Once these spots are filled, the Fly Pond Parking Area will be used for overflow parking. An informational kiosk will be installed as well.
- Construct an unloading area adjacent to Gulf Brook Road near the LaBier Flow hand launch. This will not be sized for parking, but rather for the unloading and loading of persons and equipment seeking to use the LaBier Flow hand-carry launch. For more details, see the Access for Persons with Disabilities section of this plan.
- Construct a four-car parking area on Boreas Road near the Brace Brook gravel pit. The old access road to the north of the pit will be barricaded to prevent illegal motorized access. This parking area will only be used when the Boreas Road is open during big game hunting season (beginning October 1 every year).
- Construct a six-car parking area on Boreas Road near the western end of the road and the private property line. There is an existing opening that can be improved. The entrance to the Community Connector Trail will be in this vicinity and will need to have a gate installed to prevent illegal motorized access. This parking area will only be used when the Boreas Road is open during big game hunting season.
- Since roadside parking is not permitted within the tract, the parking areas associated with all roadside tent sites along Gulf Brook, Boreas, and Branch Roads will be open to the general public. There will be six tent sites and associated parking areas on Gulf Brook Road, six on Boreas Road, and up to five on Branch Road. These parking areas will be two to three cars in size. In each of the tent site parking areas, one space will be reserved for camping use only and the other spaces will be open for general access to other users. Three of these sites on each road will be built to accessible standards.
- The Ragged Mountain Foot Trail and rock climbing will be accessed from Gulf Brook Road. A new parking area will be constructed approximately 0.8 miles from Blue Ridge Road and will be able to accommodate eight cars.

- The Blue Ridge Mountain Bike Network will be serviced by three parking areas, two of which are the existing parking areas on Elk Lake Road, and the other will be the newly constructed Blue Ridge Mountain Bike Parking Area on Blue Ridge Road. The lower Elk Lake parking area can currently accommodate three cars. With the addition of a mountain bike network it is expected that use of this parking area will increase so the parking area will be expanded to accommodate up to eight cars, one of which will be accessible. The expansion of the lot will require moving the Old River Road gate further off Elk Lake Road. The Blue Ridge Mountain Bike Parking Area will be located in an existing opening and will be constructed to accommodate 10 cars, two of which will be accessible spots. More discussion on the Blue Ridge Mountain Bike Parking Area can be seen in the Day-Use section of this plan. Tree cutting excavation and fill will be needed to improve both of these parking areas, and a new gate will need to be installed at the trailhead to prevent motor vehicle access on the trail system.
- The Gulf Brook Mountain Bike Network will be serviced by three parking areas: the existing Blue Ridge parking area on Gulf Brook Road, the Andrew Brook parking area, and a newly constructed 10-car parking area on Gulf Brook Road, approximately two miles from Blue Ridge Road. This Gulf Brook Mountain Bike Parking Area will utilize a large open area that was previously used as a log landing so tree cutting will be minimized, however, grading and excavation will be necessary to remove the woody debris left behind. The existing cleared area is much larger than 10 cars, but the parking area will be laid out to accept ingress and egress by trailered vehicles. The remaining portion of the opening will be graded and seeded to allow for an open staging area for singletrack and equestrian users. Facilities will include an accessible kiosk and signage, equestrian mounting platform, privy, and two picnic tables.
- Construct a two-car CP-3 access parking area at each of the accessible campsites proposed along Branch road. The parking areas for three universally accessible sites will be built to accessible standards.
- Construct a two-car parking area at Bernie Pond on Branch Road.
- Construct a two-car parking area at each of the three campsites proposed along Elk Lake Road.
- The existing Boreas River/Wolf Pond Parking Area on Blue Ridge Road will be improved and updated to a more accessible standard including grading and fill. It will also be better delineated to provide parking for up to six cars, one of which will be a designated accessible parking space.
- There is an open area off the access road to the Cheney Pond Overlook near Blue Ridge Road that will be developed to accommodate two cars. Just past this

III. Recreational Resources and Human Uses

new parking area there will be a Motorized Access for People With Disabilities (MAPPWD) gate installed to allow for CP-3 use of the remaining portion of the road and the tent site on the Cheney Pond Overlook.

- Construct a new parking area on East River Road of the MacIntyre East Tract. This will be located immediately before the Hudson River Bridge and will be constructed to accommodate five cars. There will be one designated accessible parking space and loading zone and four universal access spaces. Grading, fill, and limited tree cutting will be necessary to construct this to current accessible standards.
- There is an existing parking lot on Tahawus Road, across from the entrance of the Newcomb Sportsmen's Club. This parking area will be improved to service the hand-carry water access site on Sanford Lake and will accommodate five cars, one of which will be an accessible site and associated loading zone. Grading and fill will be necessary to construct this to current accessible standards.
- A parking lot for the southernmost hand-carry launch on the Hudson River will be constructed on Tahawus road and may accommodate up to five cars.
- Construct a three car parking area on the Niagara Brook Tract. There will be one designated accessible parking space and loading zone and two universal access spaces. Grading, fill, and limited tree cutting will be necessary to construct this to current accessible standards.
- Construct a new four car parking area along Campground Road in Newcomb on the Hudson River Tract. This parking area will service the Newcomb Lake to Harris Lake Trail, along with general access to the Hudson River Tract.

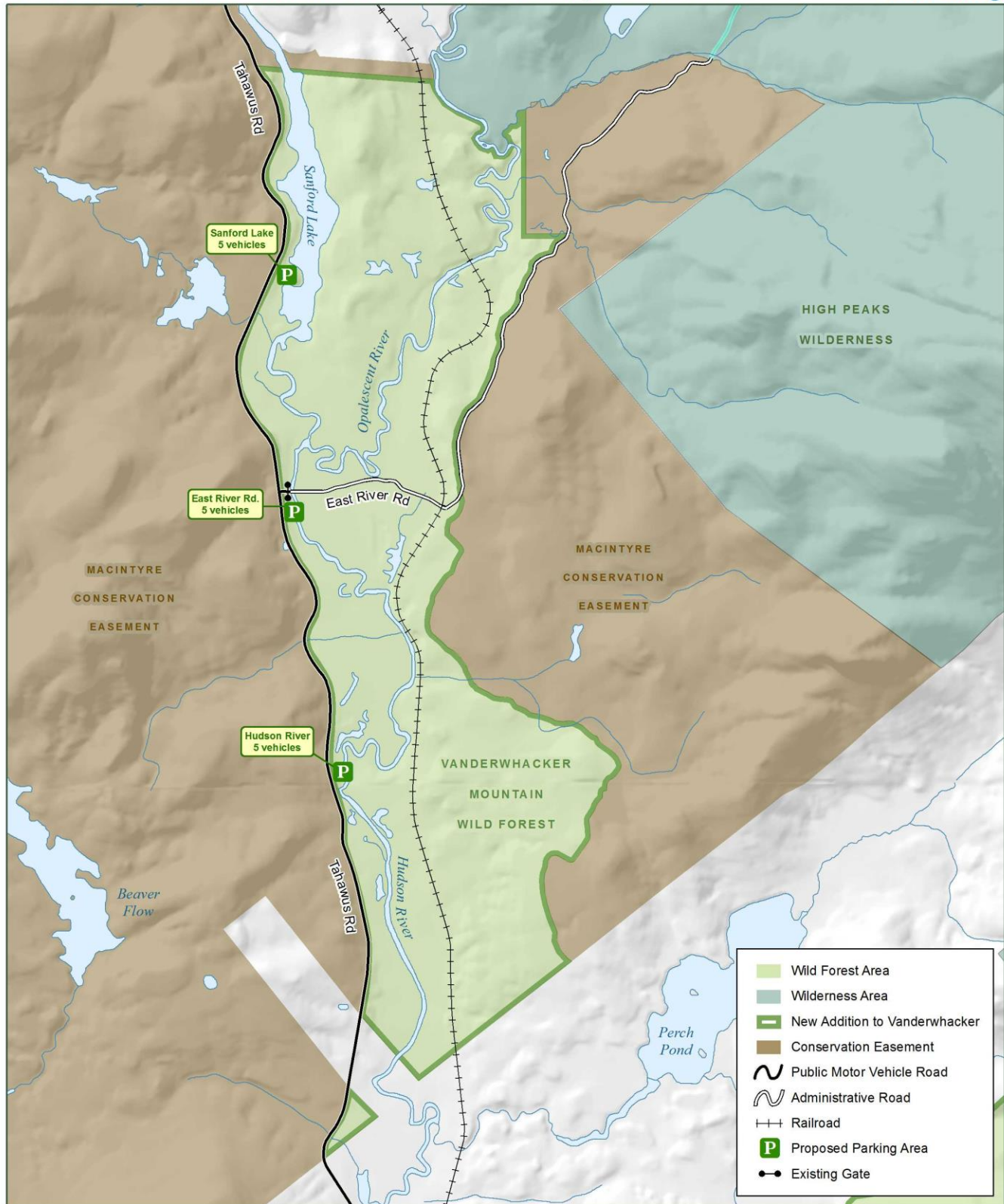
Vanderhacker Mountain Wild Forest - Boreas Ponds Tract

Vanderwhacker Mountain Wild Forest Unit Management Plan Amendment | 75

III. Recreational Resources and Human Uses

Vanderwhacker Mountain Wild Forest - MacIntyre East Tract

Motor Vehicle Access and Parking



E. Bridges, Culverts, and Dams

History

Two of the most notable structures on the Boreas Ponds Tract are the LaBier Flow Dam, located in the Vanderwhacker Mountain Wild Forest and the Boreas Ponds Dam, located in the Boreas Ponds Primitive Area.

The LaBier Flow Dam was originally constructed by G.R. Finch in 1889 as a log flush dam and in 1892 was sold to Finch, Pruyn and Company Inc. Due to the inefficacy of horse and wagons for large logging operations and the lack of railroads in the area, the logging industry relied heavily on rivers to float logs to the mills where they were processed into various products like saw logs and paper. The LaBier Flow Dam was installed to back up the Boreas River



LaBier Flow Bridge over the Boreas River

and flood what is now known as LaBier Flow. The log dam was constructed in such a way that it would substantially block the flow of the river and also able to be rapidly broken apart, releasing or “flushing” the ponded water behind it. Trees were cut throughout the area as high as the surrounding mountain summits. Logs were bucked, peeled, and transported down the mountains to LaBier Flow and the Boreas River by a combination of large log flumes that were constructed up the mountains and horse and wagon. These logs would be stockpiled in the flow and along the river all winter.

In an effort to increase the volume of logs the Boreas River was able to transport to Glens Falls, Finch and Pruyn Company Inc. constructed the Boreas Ponds Dam in 1915-1916. This impounded what had previously been 3 separate smaller ponds and created one large 350-acre ponded area. Once spring arrived and thawed enough ice, typically mid to late April, the flush dams at LaBier Flow and Boreas Ponds were breeched creating a massive flood of water down the Boreas River. The flushing of the ponded areas released enough water to transport in excess of 5 million board feet of saw logs down the Boreas River. The initial flush of logs was relatively quick, but the entire log drive typically took two months to float all of the logs to the mills in Glens Falls. Records indicate that between the years of 1892 and 1899 just over 40 million

III. Recreational Resources and Human Uses

board feet of saw logs passed through the LaBier Flush dam. The flush dams were used several more times throughout the years, with the LaBier Dam eventually being rebuilt in 1932 and Boreas Dam in 1935. These dams were used every year thereafter until 1948. The LaBier Dam was replaced with another wooden dam in 1968 and later replaced with the present steel dam in 1979.

It is unclear as to when the original bridge over the LaBier Dam was constructed, but Gulf Brook Road between Blue Ridge Road and Boreas Road was constructed in 1965 so a bridge was likely to be in place by then. The present bridge was installed with the steel dam in 1979.

Another notable bridge is the Hudson River Bridge on East River Road. Historic Finch records indicate the company used this bridge in the late 1920s, though no earlier records exist from MacIntyre, the previous land owner. The bridge does, however, show up on a 1913 map of the area. This was primarily built for the transport of people and goods to support the areas logging operations.

Existing Conditions

Currently LaBier Dam obstructs approximately 25 acres of water on the Boreas River. Before the dam was installed in 1889, the now-flooded area likely looked very similar to the river below the dam. The Boreas Ponds Dam obstructs approximately 350 acres of water on the Boreas river. Before the dam was installed in 1915 there were three distinct ponds which were connected to each other by the Boreas River. Several acres of wetlands were created when the dam was installed, and these wetlands now serve as habitat for various wildlife, vegetation and other organisms. The APSLMP allows for the maintenance and rehabilitation of small scale dams, where the structures are deemed essential to the administration and/or protection of State lands. As long as the dam is maintained and does not pose a public health and safety risk, it should remain in place.

There are currently three motor vehicle bridges on Gulf Brook Road, two on Boreas Road, and one on East River Road. The two small bridges on Gulf Brook are in fair to good condition. The LaBier Bridge itself is in good condition, but the abutments are being undermined and that will need to be addressed in the first year of this plan in order to maintain public motor vehicle access. A full engineering report should be sought to ensure proper and sustainable rehabilitation. The small bridge and the Boreas Dam Bridge on Boreas road are in good condition and suitable for recreational access. The Hudson River Bridge on East River Road is in good condition and suitable for administrative access.

Proposed Management

Objectives

- Construct and maintain bridges that protect the resource and support the designated uses of the roads and trails that cross them.
- Ensure all bridges, culverts, dams and trails or walkways associated with them are properly designed, maintained and safe for travel.

Action Steps

- Maintain all bridges located on public motor vehicle roads and administrative roads within the Vanderwhacker Mountain Wild Forest to a standard that maintains environmental protection and protects the user's health and safety.
- Construct all new trail bridges in a manner that is compliant with the NYSDEC design standard of its most intensive allowable use (i.e. bridges on class II snowmobile trails will be constructed to a class II snowmobile bridge design standard).
- Design and construct trail bridges pursuant to the Minimum Requirements Analysis (MRA, see Appendix A), which serves as guidance for determining when bridges might be built with non-natural materials for trails in Wild Forest areas. When the use of non-natural materials may be more desirable than using natural materials for bridge construction, the Department will follow the MRA to assess the appropriateness of the proposed bridge design and materials. One bridge that may benefit from the use of non-natural materials is the bridge over the Branch River that connects Branch Road to the Blue Ridge Mountain Bike Network. Any other bridges needed to implement the trails in this plan will be constructed out of natural materials.
- Maintain the Boreas Ponds and LaBier Flow Dams to protect the environmental resource, above and below the dams including its associated wetlands, and to facilitate access beyond the dam. Maintenance will include removing the vegetation from the earthen portion of the dam and making repairs to the dam itself on a regular and as needed basis. If the above maintenance activities and improvements are not or cannot be performed, the Department will remove the impoundment and restore the river channel to its natural state, and stabilize the site. If the dam is ever removed a new bridge will be constructed to maintain the current level of public and administrative access.
- Complete an engineer inspection and report to determine the need and type of maintenance to be performed on the LaBier Flow Bridge and Dam. Since the property was purchased in 2016, the bridge's abutments have been undermined.

III. Recreational Resources and Human Uses

- Perform routine inspections by NYSDEC Dam Safety.
- Construct several new bridges on the trails proposed in this UMP Amendment. Examples of these are a bridge over the Branch River which connects Branch Road to the Blue Ridge Mountain Biking Network, bridges on the Boreas River Trail, and the Andrew Brook Trail, and snowmobile bridges on the North Hudson to Newcomb Community Connector Trail. This plan supports all bridge construction necessary to support the sustainable construction of the trails proposed in this plan, the replacement of failing bridges throughout the Vanderwhacker Mountain Wild Forest, and new bridge construction on necessary re-routes throughout the unit.

F. Paddling/Hand Carry Boat Launches

History

Prior owners and lessees have historically accessed a variety of waterbodies throughout the tracts. This was most notable near the dams on Boreas Ponds and LaBier Flow, on Sanford Lake, and where East River Road crosses the Hudson River.

On pre-existing Forest Preserve lands, the Boreas River at its intersection with Blue Ridge Road was often used to access the river for fishing, but water conditions rarely allow for canoe or kayak access.



Opalescent River

Existing Conditions

Currently, Boreas Ponds sees the most hand-carry use for the Boreas Ponds Tract, and LaBier Flow sees the most use on the newly classified Vanderwhacker Mountain Wild Forest property. Official launches have not been built, but the public, along with the lessees that still have access to the property, often use the area around the dams to hand launch boats, kayaks and canoes for fishing and paddling.

On the MacIntyre Tract, an informal herd path and hand launch exists on the Hudson River on the north side of East River Road. The scenic and generally calm waters of Sanford Lake and the Hudson and Opalescent Rivers offer excellent paddling opportunities. It is likely that with these paddling opportunities, roadside pull offs and herd paths may develop to Sanford Lake and the Hudson River. In order to protect soil and water resources and also to aid in recreational access, locating and constructing water access points and associated parking areas should be done in such a way that allows for use to be distributed across a broad area. This dispersal of use will also promote through-paddling opportunities where a car can be staged at one hand launch site and a vessel can be dropped and launched from another site.

It will be beneficial for the protection of soil and water resources and to aid in recreational access to site and construct water access points and associated parking areas in a manner that allows for use to be distributed across a broad area.

The Hudson River from its confluence with the Opalescent River, south to State Route 28N is designated as a recreational river under the Wild, Scenic and Recreational Rivers System Act. The Opalescent River north of its confluence with the Hudson is classified as a wild river.

Desired Conditions for Hand Carry Boat Launch Monitoring

There are several hand-carry boat launches described in the Amendment. These launches and their access trails serve as the connection between motorized access and paddling opportunities. These should be stable, erosion free areas that exhibit minimal wear over time and are free of invasive species, human waste and litter. The tread should remain well developed with minimal expansion. This should also blend well with the natural surroundings to enhance user experience. Like other facilities, the variables for hand carry launches will include monitoring efforts to look for the presence of eroded areas, trash and human waste. Photo points will be a useful tool to help illustrate potential changes over time.

Proposed Management

Objectives

- Provide car-top, hand launch facilities where possible, in areas known to have a demand for water access to attractive features or facilities of the Forest Preserve.

III. Recreational Resources and Human Uses

- In the construction of new launches, seek routes that would minimize environmental impacts and maintenance costs by avoiding wetlands, stream crossings, significant habitats, unstable soils and steep slopes, while taking advantage of natural features that would contribute to the enjoyment of the launch by visitors.
- Manage the size and location of launch facilities to prevent user congestion on any one water body or portion of a large water body.
- Provide appropriate sanitary facilities at launch sites.
- Increase public awareness of the invasive species threat to unit waters from access sites to water bodies.

Action Steps

- Monitoring each location for the desired conditions for a sustainable hand carry boat launch will help measure and determine impacts to better inform carrying capacity development and long term planning. Final specifics will be detailed in the Wildland Monitoring Plan but generally:
 - Desired conditions for all hand carry boat launch sites will be one that is free of erosion, occurrences of invasive species, human waste and litter, has minimal expansion from the designed footprint of the built facility and provides an enjoyable user experience.
 - Monitoring could include photo point locations, control measuring points, surveys of visual occurrences of erosion, trash, invasive species, and user surveys.
- An accessible hand-carry boat launch, also suitable for carted boats, will be developed on the west side of Boreas Ponds Dam. An access route will be developed from the Boreas Ponds Parking Area, enter the Boreas Ponds Primitive Area and follow the Boreas Road to the intersection with the old lodge access road. At this location the access route to the Lean-to, which is discussed in the High Peaks Amendment, will go north and the access route to the hand-carry launch will proceed easterly between Boreas Road and Boreas Pond. The access route will drop below the road in order to provide an accessible grade to the water's edge. This hand-carry launch and access route will be laid out and constructed to current accessible standards. To help preserve the wilderness experience of Boreas Ponds and provide an appropriate transition area, a natural ramp of stone or aggregate will continue into Boreas Ponds upstream of the dam to allow for water transitions. The entry into the water will also be hardened with natural materials to maximize accessibility at the site.
- Develop a hand-carry boat launch on the southern end of LaBier Flow. A short access route from Gulf Brook Road will be developed to be suitable for fishing

access and a hand-carry boat launch including for carted boats. This access route and hand-carry launch will be laid out and constructed to the most accessible degree possible given the site constraints, and will ideally meet or exceed current specifications for accessible outdoor recreation access routes. The entry into the water will also be hardened with natural materials so as to maximize accessibility at the site. The closest parking area will be the four corners parking area, so an unloading area will be developed along the side of Gulf Brook Road in order to facilitate the access to the launch.

- The High Peaks Wilderness Area UMP Amendment proposes a Class III Trail and a hand carry boat launch to be constructed near the northern end of LaBier Flow and will connect the flow to the Wild Forest Corridor along Boreas Road. The hand-carry Class III Trail will be continued through the VMWF to Boreas Road. This will allow paddlers to launch on the southern end of the flow, paddle north across the flow and exit to Boreas Road which will allow for a short carry to Boreas Ponds. The hand-carry launch will be located within the High Peaks Wilderness Area so the construction of this trail connection to Boreas Road will be simultaneously developed with the trail and launch in the High Peaks Wilderness Area.
- Construct a hand-carry launch on the southwestern end of Sanford Lake. A short access route from Tahawus Road will be developed to be suitable for fishing access and a hand-carry boat launch including for carted boats. This access route and hand-carry launch will be laid out and constructed to the most accessible degree possible given the site constraints, and will ideally meet or exceed current specifications for accessible outdoor recreation access routes. This standard may not be entirely possible due to fluctuating water levels, but the slower moving currents of Sanford Lake as compared to the Hudson River below make it more viable than on the river banks downstream of this site. The mean water level entry will also be hardened with natural materials so as to maximize accessibility at the site.
- Construct a hand-carry launch from East River Road to the Hudson River. A short access route from the East River Road Parking Area will be developed to be suitable for fishing access and a hand-carry boat launch including for carted boats. This access route and hand-carry launch will be laid out and constructed to the most accessible degree possible given the site constraints. Due to this being located on a site that is known to have water levels fluctuate more than several vertical feet, it is not expected the trail and access will be able to be maintained using crushed stone fill like in other areas that do not experience such extreme water fluctuation and ice movement. The access point at the mean water level will also remain vegetated. If the mean water level access begins to

III. Recreational Resources and Human Uses

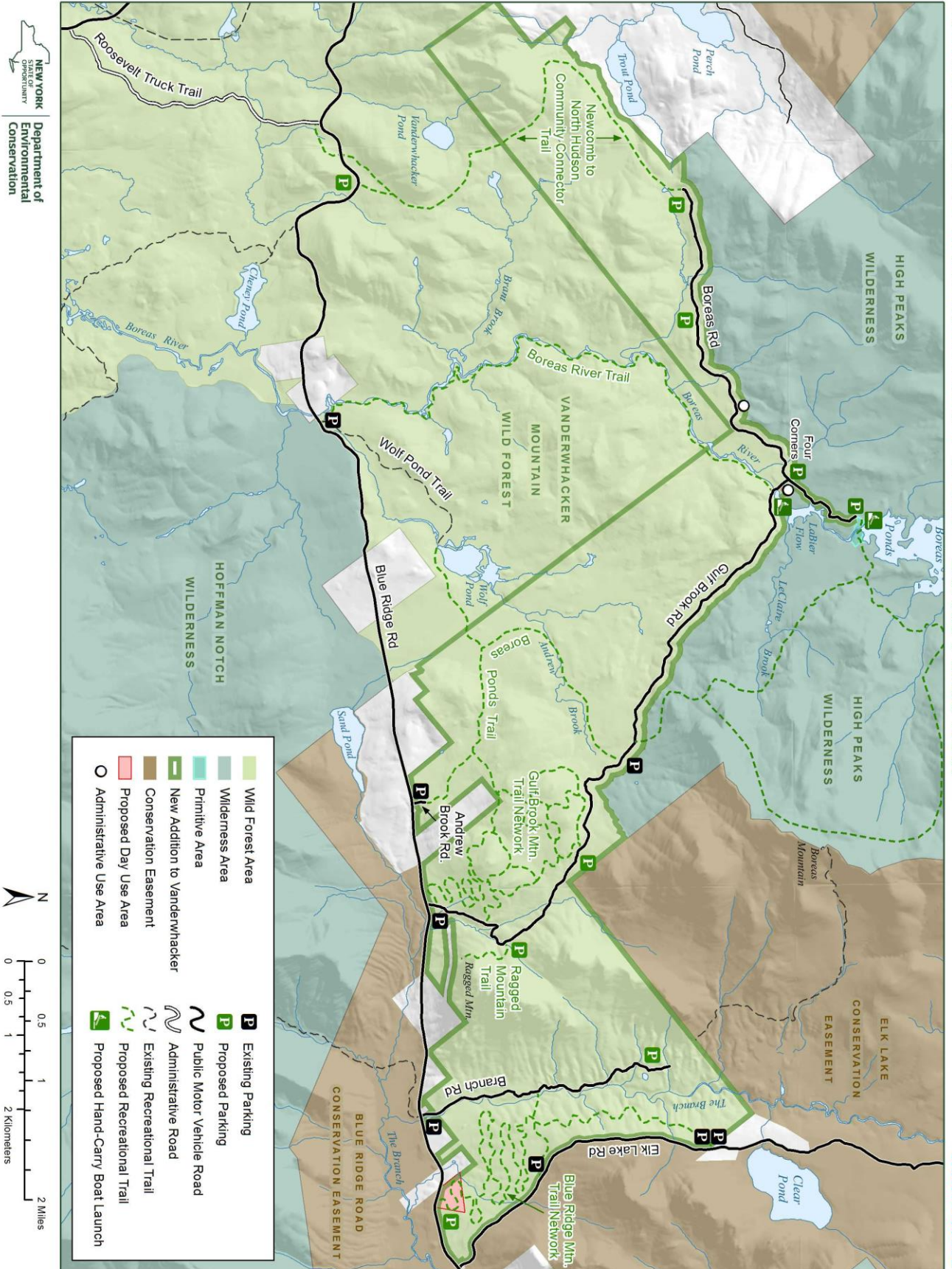
experience erosion, the bank will be stabilized with large, flat rock in a manner that facilitates access and armors the bank to prevent erosion.

- Construct a hand-carry launch from Tahawus Road to the Hudson River approximately one mile south of East River Road. A short access route from the Tahawus Road Parking Area will be developed to be suitable for fishing access and a hand-carry boat launch, including for carted boats. This access route and hand-carry launch will be laid out and constructed to the most accessible degree possible given the site constraints. Due to this being located on a site that is known to have water levels fluctuate more than several vertical feet, it is not expected the trail and access will be able to be maintained using crushed stone fill like in other areas that do not experience such extreme water fluctuation and ice movement. The trail will remain as vegetated as possible to prevent erosion. The access point at the mean water level will also remain vegetated. If the mean water level access begins to experience erosion the bank will be stabilized with large, flat rock in a manner that facilitates access and armors the bank to prevent erosion.

III. Recreational Resources and Human Uses

Vanderwhacker Mountain Wild Forest - Boreas Ponds Tract

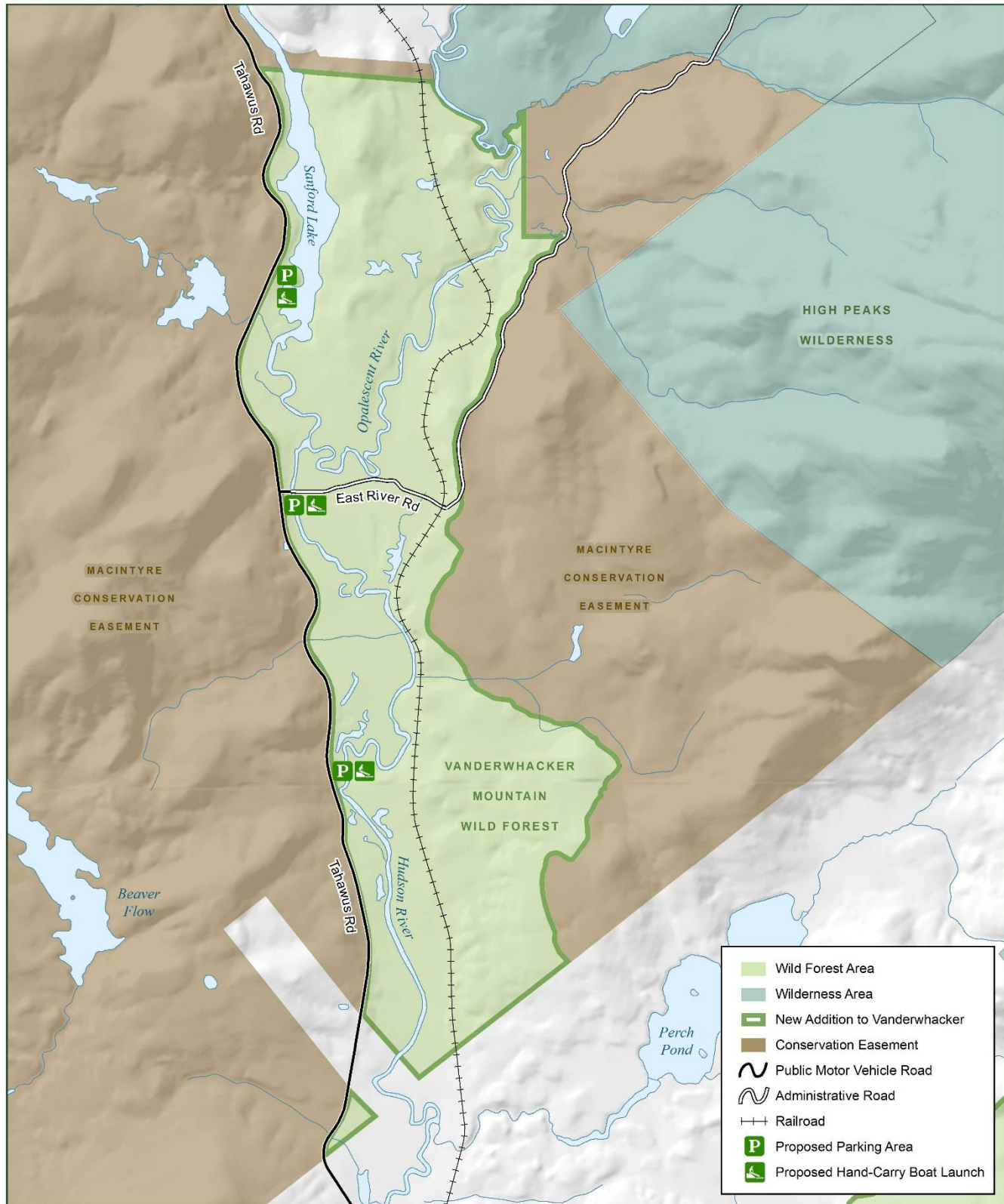
Water Access



III. Recreational Resources and Human Uses

Vanderwhacker Mountain Wild Forest - MacIntyre East Tract

Water Access



G. Access for People with Disabilities

Existing Conditions

The new parking lots constructed in 2016 are used by people of all abilities. Using these parking areas, many have accessed the property by a variety of means, including horseback, especially to LaBier Flow and Boreas Dam.

Universal Trail Assessment Process

The Universal Trail Assessment Process (UTAP) is an objective method of measuring site conditions such as average and maximum grade, minimum trail width, cross slope, trail length, and surface type. These variables can then be presented at the trailhead and on our website to allow users to make an informed decision about the accessibility of facilities.

Roadside Primitive Tent Sites

Accessible camping opportunities will be provided at nine locations, adjacent to roads, throughout the Boreas Ponds Tract. Camping at these sites will be managed according to general State land backcountry camping regulations. The locations of accessible roadside tent sites will be carefully chosen in order to provide attractive facilities in areas that can withstand use. These locations will have stable surfaces and include parking or equestrian access, a hardened tent location, an accessible privy with a hardened access route and comply with the APSLMP. These sites will be located in appropriate locations along the Gulf Brook Road, Boreas Road and Branch Road. Exact locations of these sites will be provided on maps, at trailheads, on the DEC website and through other appropriate informational pathways. Monitoring use and satisfaction of users will occur to assess and determine long term management of these sites.

Desired Conditions for Accessible Facility Monitoring

Emphasis is given throughout the plan on well designed and constructed facilities that promote resource protection and will maximize long term sustainability. Accessible facilities are a great example of the importance to well-built sustainable facilities beyond the obvious environmental benefits. These facilities need to remain in proper working order to be fully accessible by people with disabilities. The desired conditions for accessible facilities are also necessary conditions in order for the facility to remain compliant with accessible standards. Each type of facility has its own set of requirements, but for the intent of this Amendment, their requirement is to remain in a legally compliant condition. Further discussion on specific facilities like accessible trails

III. Recreational Resources and Human Uses

or tent sites can be seen in those respective sections. Like the rest of the facilities in this Amendment, it is important to construct these facilities in a manner that blends well with the natural surroundings and maximizes user enjoyment. Facilities built to accessible standards will be monitored for the variables described in their respective sections of this Amendment and will additionally be monitored for their compliance with their designed accessible standards.

Proposed Management

Objectives

- To provide outdoor recreational opportunities to people of all abilities.
- Increase access opportunities for people with disabilities where such development is economically feasible, does not alter the fundamental nature of existing programs, is compliant with Department regulation and policy, and conforms to the guidelines of the APSLMP.
- Comply with the Americans with Disabilities Act (accessible) of 1990 by improving access and creating recreational opportunities for people with disabilities.
- Inform users of the location and condition of facilities in the unit, focusing on such variables as length of trails, average grade, steepest grade, minimum width, etc., to allow them to make informed decisions regarding whether they choose to use a facility or not.

Action Steps

- Monitoring each location for the desired conditions for a sustainable accessible facility will help measure and determine impacts to better inform carrying capacity development and long term planning. Final specifics will be detailed in the Wildland Monitoring Plan but generally:
 - Desired conditions for accessible facilities will vary between the type of facility and these details are outlined within each specific facility throughout the plan. Additionally, accessible facilities will remain accessible in accordance to their design standard. Like all facilities described thought this Amendment, it is important that accessible facilities remain functional and provide an enjoyable user experience.
 - Monitoring could include photo point locations, control measuring points, surveys of visual occurrences of trash, user surveys, and evaluation of their accessibility compliance.
- Maintain existing recreational access opportunities for people with disabilities, in compliance with the Americans with Disabilities Act (accessible) of 1990.

III. Recreational Resources and Human Uses

- Publicize the locations and details of existing accessible facilities on DEC's public website and through other appropriate informational pathways.
- Incorporate accessible signage at trailhead access points.
- Perform a UTAP assessment of the hand-carry launches specified in this plan.
- Construct new facilities to the most accessible degree possible given site constraints, with the understanding that while many may not fully meet Americans with Disabilities Act (accessible) standards, the intent is to maximize the degree of accessibility for the widest range of abilities. These hand-carry launches, trails, tent sites, etc. would provide opportunities for those seeking more primitive outdoor experiences than those found in traditional intensive use campground areas.
- Construct a six-car parking area for use by permit as described in the parking and access alternatives of this plan. Four of these spaces will be open for universal access and two spaces and an associated unloading zone will be for CP-3 permit holders. The parking area will be located 1/10 of a mile from Boreas Dam in an existing clearing. Grading, fill, and limited tree cutting will be necessary to construct the parking area to current accessible standards
- The existing tent site at the Cheney Pond Overlook south of Blue Ridge Road will be improved to current accessible standards. A gate will be placed across the access road before the tent site. Motorized Access Program for People With Disabilities (MAPPWD) permit holders will be able to drive directly in to the tent site and the general public will be able to park within close proximity to the tent site. The access road will also be graded and improved. A new parking area will be installed near Blue Ridge Road to accommodate general access for two cars.
- Upgrade and maintain 2.2 miles of Branch Road to a gate on the north side of Bernie Pond. This will be maintained and managed as a three-season CP-3 Motorized Access Program for People with Disabilities (MAPPWD) route.
- At least three tent sites per road will be constructed to current accessible standards on Gulf Brook, Boreas and Branch roads.
- Construct an unloading area adjacent to Gulf Brook Road near the LaBier Flow hand launch. The hand launch will be constructed to the most accessible degree possible given the site constraints. There is no adjacent parking here, nor an accessible trail from the parking area at the four corners to this hand-carry launch so a firm and stable unloading area will be developed where the hand-carry launch trail meets Gulf Brook Road in order to facilitate the access to the launch and the loading and unloading of persons, and their gear. Parking for this site will be located at the Four Corners Parking Area.

III. Recreational Resources and Human Uses

- Construct an accessible hand-carry launch on Boreas Ponds to the west of the Boreas Ponds Dam. An accessible route from the Boreas Ponds Parking Area will be constructed to connect the hand-carry launch to the parking area.
- Equestrian mounting platforms will be provided at the following locations:
 - Blue Ridge Parking Area
 - Fly Pond Parking Area
 - Gulf Brook Mountain Bicycle Parking Area
 - The three accessible tent sites on Boreas Road
 - The hand-carry launch on LaBier Flow
- Accessible parking spots and unloading zones will be designated at all significant parking areas.
- Accessible privies, kiosks, and other accessory structures will be installed at all significant parking areas.

H. Day Use Areas

Existing Conditions

There are a series of clearings north of Blue Ridge Road and west of Elk Lake Road created by past logging operations. Being of significant size and located downslope of the Blue Ridge Mountain Bike Network, this site lends itself well to facilitating access to the adjacent trail network and public lands. With the appropriate site work there is room for a parking area, loading area, privies, and picnic tables. It is useful to describe this combination of roadside structures and improvements as a “Day Use Area” because it conveys to the public the intent to restrict overnight uses like camping and simultaneously provide improvements that will protect resources and improve the visitor experience. These sites should not be confused with areas classified as Intensive Use which also share the term Day Use Areas, but are more highly developed.

Proposed Management

Objective

- Provide parking, staging for the adjacent trail networks, and picnic tables within an area for day use only in compliance with APSLMP guidelines for Wild Forest Areas.

Action Steps

- Develop, and codify in regulation, a Mountain Bike Day Use Area to the north of Blue Ridge Road. The facility can be largely constructed in a series of existing clearings and be a part of a mountain biking hub for the Blue Ridge and Gulf Brook Mountain Bike Networks. The intent is to create an area to prepare for riding the area's single track mountain bike networks while protecting the resource from abuse through roadside group camping. The area could also prove to be popular among all recreational users of the Forest Preserve in the area seeking a place to gear up or cool down after their trip. An approximately 30-acre day-use-area would provide sufficient parking and associated facilities like privies, picnic tables, and informational kiosk, and would be large enough to discourage roadside camping. A 10-car parking area will be constructed, along with a loading and un-loading zone. An accessible kiosk and privy will also be installed to service the parking area. The Blue Ridge Mountain Bike Network will be directly accessed from the parking area.

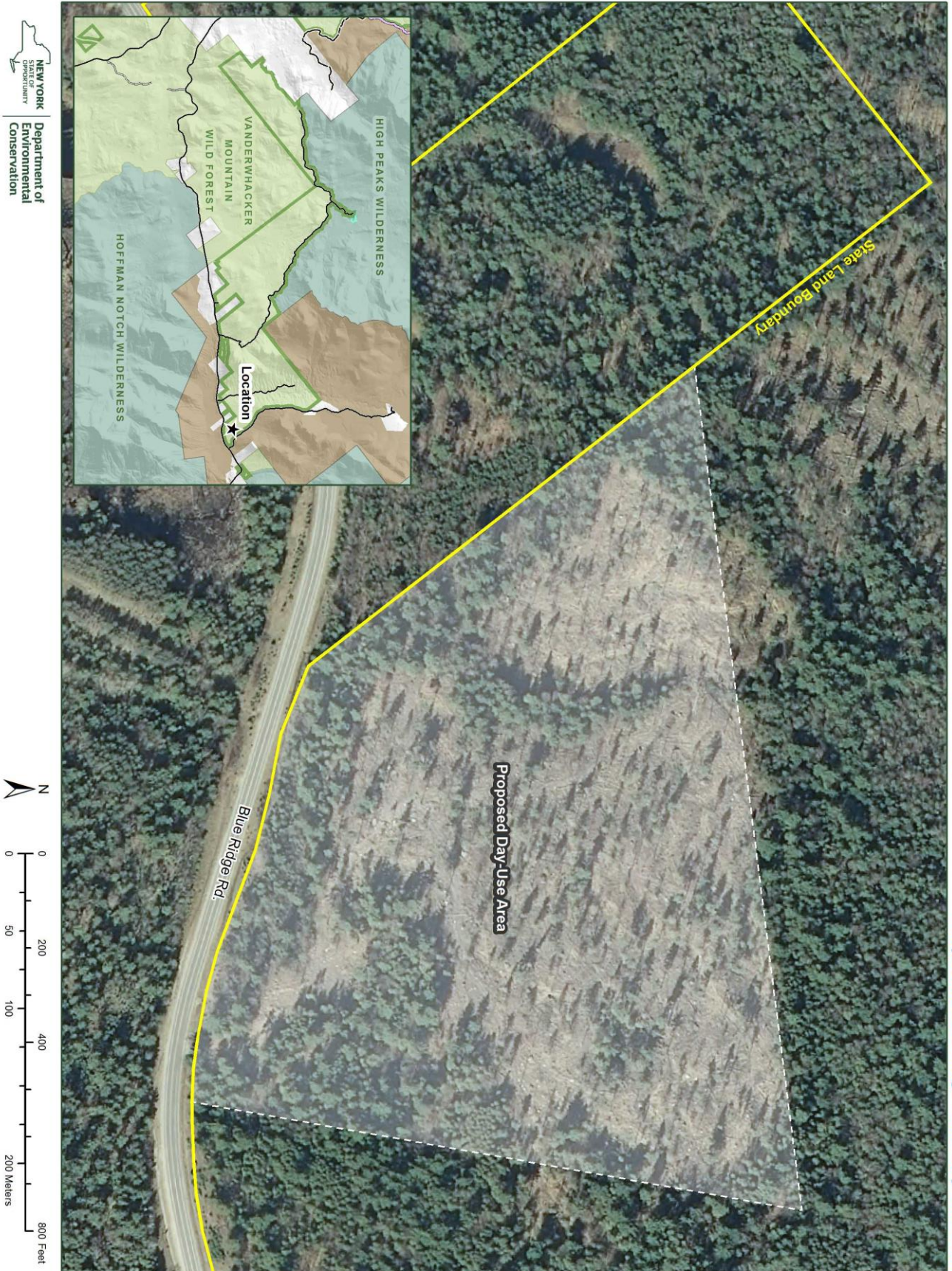
Beyond the parking area, five picnic tables will be placed in various locations in the day-use-area. Access paths and light site work may be necessary to connect the picnic table sites to the main singletrack trail. At least one additional privy will also be installed in the day use area. As part of the phased approach to implementation, if the sites around the five picnic tables start to show signs of overuse or if additional sites are seen as desirable, then five more picnic tables will be installed to distribute the use.

- Designate, and codify in regulation, the 11-acre Boreas Ponds Primitive Area for day-use only. The intent of allowing only day-use is to protect the resource around the dam by not allowing camping. Facilities like privies and educational signage will be provided in the day-use area, but picnic tables will not be included.

III. Recreational Resources and Human Uses

Vanderwhacker Mountain Wild Forest - Boreas Ponds Tract

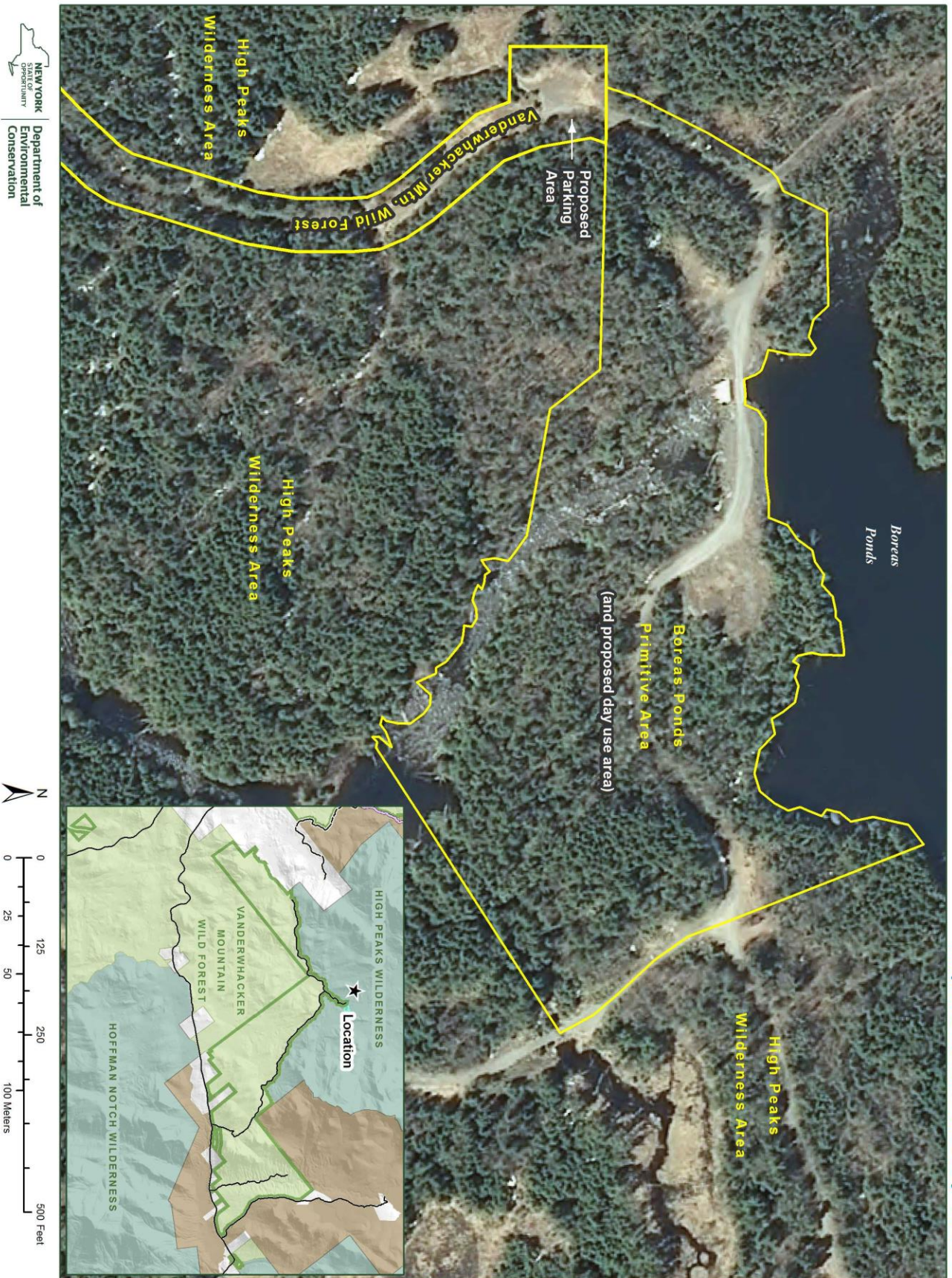
Proposed Blue Ridge Road Day Use Area



III. Recreational Resources and Human Uses

Vanderwhacker Mountain Wild Forest - Boreas Ponds Tract

Proposed Boreas Ponds Day Use Area



I. Trail Recreation

Note: This section contains a discussion and inventory of the proposed trail network and the uses (see icons) associated with each trail. The sections following this one discuss individual uses within the context of the recently-classified lands.

Existing Conditions

In the past, the trails on the Boreas Ponds and MacIntyre tracts were more road-like in nature, due to their forest management use, than what we typically think of trails being today. Due to this, the majority of the old logging and lessee hunting roads in the area are not viable as a long-term and sustainable option for public recreational use. Although there may be some exceptions and instances where sections of old logging roads may be used, for the most part, an entirely new trail system will need to be developed to maximize environmental protection, sustainability, and user enjoyment.

Proposed Management

Objectives

- Provide visitors with a trail system that offers a range of recreational opportunities in a manner that keeps physical and visual trail and resource impacts to a minimum and complies with APSLMP guidelines.
- Construct and maintain trails in a manner which preserves their classification (see trail classification chart in Appendix E for additional information) and prevents impacts such as sedimentation and erosion.
- Identify need for trail relocations and/or need for new trails.
- Provide a unified system of trail signage and markers on the Vanderwhacker Mountain Wild Forest. Trail marker colors will describe general direction of trails. Red markers will be used on trails that primarily run east-west, Blue markers will be used on trails that primarily run north-south, and Yellow markers will be used on spur trails, connecting trails, and loop trails.
- Allow the previous owner and lessee trails that are not suitable for public recreational use to revegetate.
- Provide appropriate staffing levels so the Department can build and maintain a sustainable purpose built trail network.

Proposed Trails and Uses

Use Icon Legend



Hiking



Snowmobiling



X-country Skiing



Bicycling



Snowshoeing



Accessible



Equestrian

1. Newcomb to North Hudson Community Connector Trail

Recommended Uses:



Secondary Uses:



Description:

The Newcomb to North Hudson Community Connector Trail (NNHCC) is intended to provide a recreational connection for multiple user groups between the towns of Newcomb and North Hudson. The trail will be sited and constructed to class II snowmobile trail standards outlined in the 2009 Snowmobile Management Guidance: Snowmobile Trail Siting, Construction and Maintenance on Forest Preserve Lands in the Adirondack Park (2009 Guidance). Additional tread development will also be done throughout the trail in order to make the trail tread sustainable for non-winter hiking, mountain biking, and equestrian use. It is important to note that horse and wagon use will be limited to areas of this trail that utilize Forest Preserve roads that are maintained to a road standard, and will not be permitted on off-road trail segments. Additionally, for the majority of the distance of trail proposed in this UMP amendment, both warm season and cold-season uses will share the same trails. In some locations, however, environmental constraints such as water and terrain will require the different seasonal uses to be separated for short distances. Additional information can be found in the Trail Alternatives section of the 2015 Community Connector Trail Plan (CCTP).

Several alternatives for the Newcomb to North Hudson Community Connection were described in the CCTP, however a preferred alternative for the connection was not established. This UMP Amendment proposes Alternative B in Section 3

III. Recreational Resources and Human Uses

of the CCTP to be the preferred alternative, such that the trail will proceed generally north from the Roosevelt Truck Trail to the western end of Boreas Road, then east along Boreas Road to its intersection with Gulf Brook Road. From here the trail will follow Gulf Brook Road to the vicinity of Blue Ridge Road. New trail construction will be necessary to connect Roosevelt Truck Trail to Boreas Road and to connect Gulf Brook Road to Sand Pond Road on the adjacent Conservation Easement to the south of Blue Ridge Road.

2. *Boreas Ponds Dam Trail*

Primary Uses:



Secondary Uses:



Description:

This Class VI Front Country trail will be sited on the Administrative road between the parking lot in the Vanderwhacker Mountain Wild Forest and the Boreas Ponds Dam. The first half of this trail will be surfaced as an accessible trail to the junction with the Boreas Ponds Water Access Trail.

3. *Boreas Ponds Accessible Water Access Trail*

Primary Uses:



Description:

Construct a class VI Accessible Front Country Trail to Boreas Ponds, along with an accessible hand-carry launch to the west of the Boreas Ponds Dam. The accessible route from the Boreas Ponds Dam Access Trail will be constructed to connect the Hand-carry launch to the Boreas Ponds Dam Trail and Parking Area.

4. Boreas Ponds Trail

Recommended Uses:



Secondary Uses:



Prohibited Uses:



Description:

Construct a Class V trail connecting Andrew Brook Road to Gulf Brook Road. This will be approximately four miles long and provide connectivity between the Blue Ridge Road and the Fly Pond Parking area on Gulf Brook Road. The greater plan is to continue this connection north of the Fly Pond Parking area into the High Peaks Wilderness Area and on to Boreas Ponds, which will serve as a non-motorized connection from Blue Ridge Road to Boreas Ponds.

Approximately two miles of the southern end is an old forest access road into the tract that will be suitable for mountain bike use and will serve as a connection to the Gulf Brook Mountain Bike Trail Network described later in this Amendment. Much of this is constructed with fill and road drainage devices like ditches and culverts. Areas of this section that do not hold up to trail use over time may be hardened with existing fill. It is also anticipated that some small re-routes will be necessary to maintain a sustainable trail. As road-like features like culverts and ditches fail over time they will be replaced with trail features like waterbars, turnpikes, broad-based dips, etc. The northern segment will be new trail construction and connect to Gulf Brook Road in the vicinity of the Fly Pond Parking Area. The entire trail will be constructed and/or maintained with cross country skiing in mind as well. The Boreas Ponds Trail will allow for loops of varying distances and difficulties when paired with the Gulf Brook Mountain Bike Network. This is also an especially important connection for non-motorized winter access into Boreas Ponds. Gulf Brook Road will serve as a snowmobile trail connection between the towns of Newcomb and North Hudson, so users seeking a non-motorized route to the ponds will be able to park at the Andrew Brook Parking Area and use the purpose built Boreas Ponds Trail to ski from Blue Ridge Road to Boreas Ponds without needing to use Gulf Brook Road.

III. Recreational Resources and Human Uses

5. *Ragged Mountain Trail*

Recommended Uses:



Secondary Uses:



Prohibited Uses:



Description:

Construct a Class IV foot trail that will connect the overlook of Ragged Mountain to the new Ragged Mountain Parking Area on Gulf Brook Road. Due to its short length, excellent views and easy access, Ragged Mountain may be a popular destination. This is also in the immediate vicinity of rock and ice climbing, so parking at times will have to be shared among multiple uses. More climbing information can be found later in the rock and ice climbing section.

6. *Ragged Mountain Climbing Access Trail*

Recommended Uses:



Prohibited Uses:



Construct a Class III foot trail from the Ragged Mountain Trail to the bottom of the climbing faces on Ragged Mountain. A herd path has already developed and in order to ensure a sustainable trail a formal trail will be designed and sustainably constructed.

7. *Boreas River Trail*

Recommended Uses:



Prohibited Uses:



Description:

A foot trail will be constructed and maintained to Class IV secondary trail standards and will generally follow the east side of the Boreas River from the Wolf Pond/Boreas River Parking Area on Blue Ridge Road north to the vicinity of LaBiere Flow. It is thought the proximity of the trail to the river and ease of access to fishing, combined with the nostalgia of the area's history, will make this a popular area to hike, snowshoe or ski.

8. *Wolf Pond Trail*

Recommended Uses:



Secondary Uses:



Prohibited Uses:



Description:

The first segment of the Wolf Pond Trail and lean-to was completed in 2017 pursuant to the 2005 Vanderwhacker Mountain Wild Forest UMP. This connected the Wolf Pond/Boreas River Parking Area to the outlet of Wolf Pond. This UMP Amendment proposes continuing the trail to the Andrew Brook Trail. This will be constructed and maintained to Class IV foot trail standards.

9. *Boreas Mountain Trail*

Recommended Uses:



Secondary Uses:



Prohibited Uses:



Description:

In 2012, the Department was gifted a Conservation Easement that included the recreational right of the public to use the Boreas Mountain Trail across Elk Lake Property. Historically, this trail was used to access the summit of Boreas Mountain and the fire tower that previously stood there. The Department has the right to establish public access here and is allowed to maintain the trail within a 50-foot corridor. Access to this corridor is gained via Branch Road at the Hoffman Notch Parking Area. Like many other trails of this era, it is laid out generally up the fall line of Boreas Mountain, so several improvements must be made and ongoing maintenance must be undertaken in order to minimize erosion and maximize user experience. The possibility of a trail located solely on Forest Preserve from Gulf Brook Road to the summit of Boreas Mountain exists. If this trail is constructed and user access to the summit of Boreas Mountain is provided, the trail across the Conservation Easement may not be necessary. Due to these considerations, the Department will weigh the possibility of a sustainable trail being laid out and constructed in the High Peaks Wilderness between Boreas Mountain and Gulf Brook Road. If the trail up from the west is built first, the Department will evaluate use of that trail and the level of public interest in the eastern approach proposed in this amendment prior to constructing it.

III. Recreational Resources and Human Uses

10. *Gulf Brook Mountain Bike Trail Network*

Recommended Uses:



Secondary Uses:



Prohibited Uses:



Description:

The over 1,200-acre area west of Gulf Brook Road south of Andrew Brook and mostly east of the Boreas Ponds Trail is largely located on well drained soils with northern hardwood forests. This, coupled with the varied terrain that slopes generally downward toward Blue Ridge Road, lends the area well to singletrack mountain bike trails. This plan is in favor of establishing an approximately six-mile network of stacked trails in this area. Six miles of new trail is an approximation and will vary depending on the exact layout of a sustainable trail. The northern end of the network will be serviced by a new 10 car parking area along Gulf Brook Road and the southern end by the Blue Ridge and Andrew Brook Parking Areas. The trail system, parking areas and tent sites along Gulf Brook Road are designed to work as a network that incorporates parking, day use and primitive camping opportunities that can all be accessed by mountain bike, foot, or ski. The design and construction of the trails will be guided by the 2018 Management Guidance for Siting, Construction and Maintenance of Singletrack Bicycle Trails on Forest Preserve Lands in the Adirondack Park. The network will also be developed with skiing in mind, with consideration being given to their layout, design, and adequate corridor height and width, so winter users can take advantage of the system in the winter months. The stacked nature of the design will also allow for users of different experience levels to use various portions of the network, with the primary connections to the parking areas and camping opportunities being generally more forgiving than the core singletrack trails. The potential for more trails here does exist, especially if the network were to connect and cross over to the west side of Andrew Brook Trail, but similar to other proposals, this plan is in favor of taking a phased approach to the expansion of the network. Use numbers and environmental impacts of this trail will be monitored and if the desire for additional trails exists, approximately four additional miles of trail may be constructed.

11. *Blue Ridge Mountain Bike Trail Network*

Recommended Uses:



Secondary Uses:



Prohibited Uses:



Description:

The over 800-acre area of Forest Preserve between Elk Lake Road and the Branch River is largely located on well drained soils with northern hardwood forests. The terrain here slopes generally downward towards the Branch River and Blue Ridge Road, which makes the area favorable for a directional descent singletrack mountain bike trail system. This plan is in favor of using the phased approach to construct an approximately eight-mile network of stacked trails in this area. Eight miles of new trail is an approximation and will vary depending on the exact layout of a sustainable trail.

The upper and lower Elk Lake Road parking areas, Blue Ridge Mountain Bike Day Use Area, and Branch Road will all have trail connections. The trail system, parking areas and tent sites along Branch Road are designed to work as a network that incorporates parking, day use, and primitive camping opportunities that can all be accessed by mountain bike, foot, or ski. The design and construction of the trails will be guided by the 2018 Management Guidance for Siting, Construction and Maintenance of Singletrack Bicycle Trails on Forest Preserve Lands in the Adirondack Park. The network will also be developed with skiing in mind, with consideration being given to their layout, design, and adequate corridor height and width, so winter users can take advantage of the system in the winter months. The stacked nature of the design will also allow for users of different experience levels to use various portions of the network, with the primary connections to the parking areas and camping opportunities being generally more forgiving than the core singletrack trails. The first phase in construction will be approximately four miles, will concentrate on making the connections to the parking areas and will be laid out in a manner that will be able to easily accept additional mileage into the network. The area here is fairly expansive and there is room to accommodate more than four miles of trail. Use numbers and environmental impacts of this trail will be monitored and if the desire for additional trails exists, approximately four additional miles of trail may be constructed. The second phase will be laid out in a way that connects to the existing network and will likely appeal to users seeking a more difficult experience.

III. Recreational Resources and Human Uses

More information on the Blue Ridge Mountain Bike Hub can be found in the Day Use Area section of this plan.

12. *Elk Lake to Branch Road Mountain Bike Connection*

Recommended Uses:



Secondary Uses:



Prohibited Uses:



Description:

There is an old logging road formerly known as River Road that stretches between the lower Elk Lake Road Parking Area and the Branch River, eventually terminating on the east side of the Branch River near the Elk Lake property boundary. The lower Elk Lake Parking Area and Old River Road currently leads to the general area where the Blue Ridge Mountain Bike Trail Network is proposed, however, increased recreational opportunities like camping at the Branch Road tent sites could be gained if the Old River Road were connected to the Branch Road with a new trail and bridge over the Branch River. Old River Road will be maintained to a Class V trail standard and a new Class V trail connection between this and Branch Road, including a bridge over the Branch River, will be constructed. It is important to note Old River Road was initially laid out and constructed to be intermittently used for forest management purposes and is not sustainable for public motor vehicle traffic. The sustainability and appropriateness of old roads being used as trails is highly dependent on how the road was constructed and the site it was constructed on. This particular road has been laid out in a generally favorable location for a sustainable trail, and has been graded and filled over time so there is on-site material to maintain a trail tread. In addition to being popular for singletrack users, this will also provide a fairly scenic cross country skiing opportunity.

13. *Vanderwhacker Pond Trail*

Recommended Uses:



Prohibited Uses:



Description:

A foot trail will be constructed and maintained to Class IV secondary trail standards from the Community Connector Trail to Vanderwhacker Pond. This

trail will avoid the fall line the current herd path is located in and will be constructed sustainably.

14. *Newcomb Lake to Harris Lake*

Recommended Uses:



Secondary Uses:



Prohibited Uses:



Description:

Connect Lake Harris Public Campground and the Newcomb to Minerva Community Connector trail on Campground Road to Newcomb Lake with a Class IV foot trail. Historically, there was a trail connecting the outlet of the main body of Newcomb Lake near the Santanoni Great Camp to the eastern side of Harris Lake. The trail proceeded generally east from Newcomb Lake on the north side of the Lower Duck Hole portion of Newcomb Lake. Once around the eastern end of Lower Duck Hole, the trail followed the Newcomb River south, eventually crossing the river and heading back to Harris Lake and Campground Road. The entire trail was approximately four miles long, but over time almost all of it has been lost and is now revegetated. Connecting a new trail to the existing Lower Duck Hole Trail will require approximately three miles of new trail construction to a Class IV foot trail standard, some minor bridging of streams and a bridge over the Newcomb River. Some of the old trail crosses private property which the Department now holds a Conservation Easement on. If the new trail cannot be constructed exclusively on Forest Preserve property due to environmental constraints, the construction of this trail will be dependent on a Recreation Management Plan (RMP) for the Conservation Easement to allow such use. Short access trails will also be constructed to access the campsites proposed along this new section of trail.

15. *LeClaire Hill Trail*

Recommended Uses:



Secondary Uses:



Prohibited Uses:



Description:

LeClaire Hill lies within the High Peaks Wilderness to the north of the Niagara Brook Tract. This UMP Amendment supports the construction of a trail from the

III. Recreational Resources and Human Uses

Niagara Brook Parking Area to the High Peaks Wilderness boundary to connect to LeClaire Hill.

J. Snowmobile (Multiple-Use) Trails

Existing Conditions

Snowmobiling has not been allowed on the Boreas Ponds Tract since being acquired by the State. The multiple-use trail proposed in this amendment has not been constructed, but an analysis of alternatives considered for this route was completed by the Department in 2015, and outlined in the Community Connector Trail Plan for the Towns of Newcomb, Minerva, and North Hudson.

Proposed Management

In the vicinity of the Boreas Ponds Tract, four different routes were considered in the Community Connector Trail Plan, but a preferred alternative was not selected because the State did not yet own the land. Now that the tract has been acquired by the State and classified—in part—as wild forest, the Department has selected a preferred alternative using the following criteria:

- Minimal overlap with active motor vehicle routes to increase user safety and enjoyment;
- Minimal tree cutting, wetland intrusions, and terrain modifications; and
- Utilization of existing, non-conflicting (i.e. not proposed for other winter uses) trails and/or motor vehicle routes to maximize construction and long-term maintenance efficiencies

Alternative B from the Community Connector Trail Plan stands out as the preferred alternative because it clearly meets the above criteria more than the other three alternatives that were considered. By utilizing the Gulf Brook and Boreas roads, which are not plowed in the winter, the route a) avoids relying on Blue Ridge Road, which would create a safety hazard and reduce user enjoyment, b) minimizes new construction and additional maintenance costs, and c) keeps tree cutting and terrain modifications to the minimum amount possible when not utilizing Blue Ridge Road.

The additional alternatives that were considered for this section of the Newcomb to Minerva multiple-use trail are discussed in Appendix B of this amendment.

As described in the Community Connector Trail Plan, the preferred alternative is as follows (note: the Boreas Road was erroneously identified as part of the Gulf Brook Road in the 2015 plan, and the distinction between the two roads has been clarified here):

Roosevelt Truck Trail to Blue Ridge Road (2.3 miles on road)

This alternative proceeds north, generally along the Roosevelt Truck Trail to a suitable crossing at the Blue Ridge Road. A final crossing location will be decided in consultation with the APA, Essex County Highway Department and New York State Department of Transportation.

Blue Ridge Road to Boreas Ponds Tract Boundary (1.8 miles of new trail)

The grade and terrain on the north side of the Blue Ridge Road in this area are suitable for the construction of a proposed new trail. This segment would avoid using the shoulder of the Blue Ridge Road.

Boreas Ponds Tract Boundary to Boreas Road (2.1 miles of new trail)

There are existing skid trails on the former Finch-Pruyn lands within the Boreas Ponds Tract that could provide a suitable trail from the property boundary northeast of Vanderwhacker Pond to the Boreas Road. Where these skid trails cannot be sustainably maintained, new trails would be constructed to connect the sustainable sections.

Boreas and Gulf Brook roads (8.9 miles on Forest Preserve road)

The Boreas and Gulf Brook roads are existing motor vehicle roads within Boreas Ponds Tract. If this part of the tract is classified Wild Forest, the Boreas and Gulf Brook Roads could become a snowmobile route and be maintained exclusively for winter recreational uses during the colder months (i.e. not plowed). The design and unpaved surface of the road also mean that motor vehicles will travel slowly during the warmer months, making the route suitable for other recreational uses as well.

Desired Conditions for Snowmobile Trail Monitoring

Unlike many other trails, snowmobile trails have the benefit of snow cover to reduce the overall impacts on trails. With adequate snow, conditions rarely become deteriorated, which shifts the typical tread concerns like erosion to vegetation concerns. Desirable snowmobile trails will maintain safe lines of site and corridors that are free from vegetative obstructions. Corridors free from obstruction not only provide for safe user

III. Recreational Resources and Human Uses

conditions, but also increase user enjoyment. Although snowmobiling occurs on snowpack and does not typically impact the frozen soil below, it is important to monitor these trails like many other facilities. Photo points will be developed along routes to continually monitor impacts and to ensure erosion and corridor expansion through vegetation loss is not occurring.

Objective

- Develop a multiple-use community connection trail between the towns of North Hudson, Newcomb and Minerva

Actions Steps

- Monitoring for the desired conditions of snowmobile trails will help measure and determine impacts to better inform carrying capacity development and long term planning. Final specifics will be detailed in the Wildland Monitoring Plan but generally:
 - Desired conditions for snowmobile trails will be ones that have minimal expansion from the designed footprint of the built facility, does not negatively impact trailside vegetation, is free of occurrences of erosion and provides an enjoyable user experience.
 - Monitoring could include photo point locations, control measuring points, occurrences of erosion and corridor expansion.
- Design and construct a multiple-use trail as outlined in the preferred alternative above to a Class II snowmobile trail standard in accordance with the 2009 Snowmobile Management Guidance, and to a standard which will also support non-winter uses such as hiking, mountain biking, and equestrians.
- A new gate will be installed on each side of the Blue Ridge Road trail crossing. The gates will be installed to be easily navigable by all allowed uses.

Vanderknacker Mountain Wild Forest - Boreas Ponds Tract

NEW YORK
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OPPORTUNITY
Department of
Environmental
Conservation

Legend:

- Wild Forest Area
- Wilderness Area
- Primitive Area
- New Addition to Vanderwacker
- Conservation Easement
- Proposed Day Use Area
- Administrative Use Area
- Existing Parking
- Proposed Parking
- Public Motor Vehicle Road
- Administrative Road
- Existing Recreational Trail
- Proposed Recreational Trail
- Proposed Snowmobile Use

Map Labels:

- HIGH PEAKS WILDERNESS
- HOFFMAN NOTCH WILDERNESS
- VANDERWACKER MOUNTAIN WILD FOREST
- Blue Ridge Rd
- Branch Rd
- Elk Lake Rd
- Clear Pond
- Blue Ridge Mtn. Trail Network
- Ragged Mountain Trail
- Andrew Brook Rd
- Guilbrook Mtn. Trail Network
- Boreas Ponds Trail
- Wolf Pond Trail
- Boreas River Trail
- North Hudson Community Connector Trail
- Roosevelt Truck Trail
- Four Corners
- Labier Flow
- Leclain brook
- Boreas Ponds
- Elk Lake Conservation Easement
- Boreas Mountain
- Perch Pond
- Trail Pond

Scale: 0 to 2 Miles, 0 to 2 Kilometers

North Arrow: N

K. Hiking and Snowshoeing

Existing Conditions

Hiking and snowshoeing is allowed “at-large” throughout the tracts, but purpose-built foot trails are currently limited to pre-existing Vanderwhacker Mountain Wild Forest and High Peaks Wilderness lands. Although hiking will continue to be allowed at-large, this amendment proposes five trail opportunities for hiking and snowshoeing to be constructed or upgraded in the Vanderwhacker Mountain Wild Forest, and it allows for several others within the High Peaks Wilderness Area to be accessed from the Wild Forest. These, like all of the proposed trails, will be purpose-built trails focusing on sustainability and user enjoyment.

Desired Conditions for Hiking Trail Monitoring

Properly designed and constructed hiking trails will maintain their firm and stable surface for their intended use, and with minimal maintenance. A sustainable trail ensures environmental protection, user safety, function and enjoyment. Building a well-designed, sustainable trail that blends well with its natural surroundings enhances the user’s experience and decreases user conflict. Like other facilities, the variables for hiking trails will include monitoring efforts to collect data on the presence of eroded areas, the expansion of the tread through vegetation loss, and the occurrence of trash and human waste. Photo points will be a useful tool to help illustrate potential changes over time.

Proposed Management

Objectives

- Design and locate all trails in accordance with DEC guidance and best management practices that minimize environmental impacts.
- Add and enhance hiking and snowshoe trail opportunities as appropriate throughout the area.
- Establish photo point monitoring locations and systematic measuring methodologies to help monitor trail impacts on all newly constructed, rerouted and rehabilitated trails. This data will help inform the decision-making process on future trail decisions.

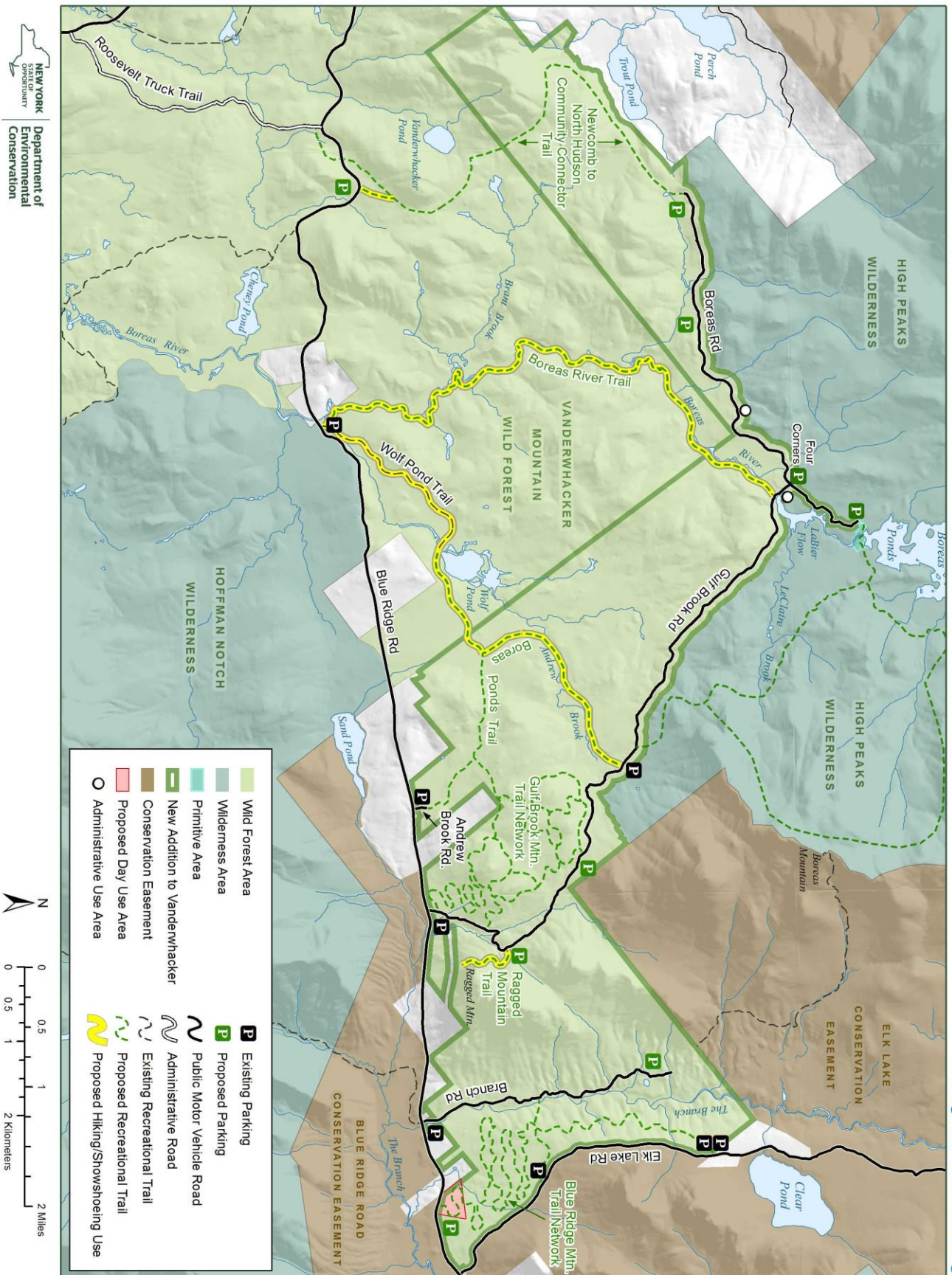
Action Steps

- Monitoring for the desired conditions of Hiking Trails will help measure and determine impacts to better inform carrying capacity development and long term planning. Final specifics will be detailed in the Wildland Monitoring Plan but generally:
 - Desired conditions for Hiking Trails will be ones that have minimal erosion and expansion from the designed footprint of the built facility, does not negatively impact trailside vegetation, is free of occurrences of human waste or litter and provides an enjoyable user experience.
 - Monitoring could include photo point locations, control measuring points, occurrences of erosion and tread expansion, trash, and user surveys.
- Construct and maintain the following Class VI Accessible Front County Trails that will meet accessible standards:
 - Boreas Ponds Dam Water Access Trail
- Construct and maintain to a Class V standard:
 - Boreas Ponds Trail
- Construct and maintain to a Class IV standard:
 - Boreas River Trail
 - Ragged Mountain Trail
 - Wolf Pond Trail (conditional action)
 - Newcomb Lake to Harris Lake Trail (conditional action)
 - LeClair Hill Trail (conditional action)
- Construct and maintain to a Class III standard:
 - Vanderwhacker Pond Trail
- Construct a trail up the east side of Boreas Mountain from Branch Road to a Class IV standard. A supporting Recreation Management Plan (RMP) for the Elk Lake Conservation Easement will be necessary to complete this connection. If a trail up Boreas Mountain from the west is built first (through the High Peaks Wilderness Area), the Department will evaluate use of that trail and the level of public interest in the eastern approach proposed in this amendment prior to constructing it. This is a conditional action dependent on the phased approach.

III. Recreational Resources and Human Uses

Vanderwhacker Mountain Wild Forest - Boreas Ponds Tract

Hiking and Snowshoeing



L. Cross-Country Skiing

Existing Conditions

Like hiking, skiing is allowed “at-large” throughout the tracts, but purpose-built ski trails are currently limited to pre-existing Vanderwhacker Mountain Wild Forest and High Peaks Wilderness lands. Although skiing will continue to be allowed at-large, this Amendment proposes several new trails be constructed with skiing in mind. These, like all of the proposed trails, will be purpose-built trails focusing on sustainability and user enjoyment.

Desired Conditions for Cross-Country Ski Trail

Monitoring

Desirable conditions are typically easily achievable for cross country ski trails, as long as the weather cooperates. With adequate snow pack, conditions rarely become deteriorated, which shifts the typical tread concerns like erosion to other concerns like corridor expanding through a loss of vegetation. Desirable cross country ski trails maintain safe lines of sight and corridors that are free from vegetative obstructions, among several other features. Cross Country skiing is often a secondary use on hiking or mountain bike trails, so when this is the case, the monitoring variables for the trails in which they use will be the primary guide for monitoring variables. When the trails are for skiing only, the monitoring program will assess, in the non-winter months, corridor expansion through vegetation loss, and erosion. Photo points will be developed along routes to continually monitor impacts and to ensure corridor expansion through vegetation loss is not occurring.

Proposed Management

Objectives

- Design and locate all trails in accordance with DEC guidance and trail best management practices that minimize environmental impacts.
- Add and enhance skiing opportunities as appropriate throughout the area.

Action Steps

- Monitoring for the desired conditions of cross country ski trails will help measure and determine impacts to better inform carrying capacity development and long term planning. Final specifics will be detailed in the Wildland Monitoring Plan but generally:

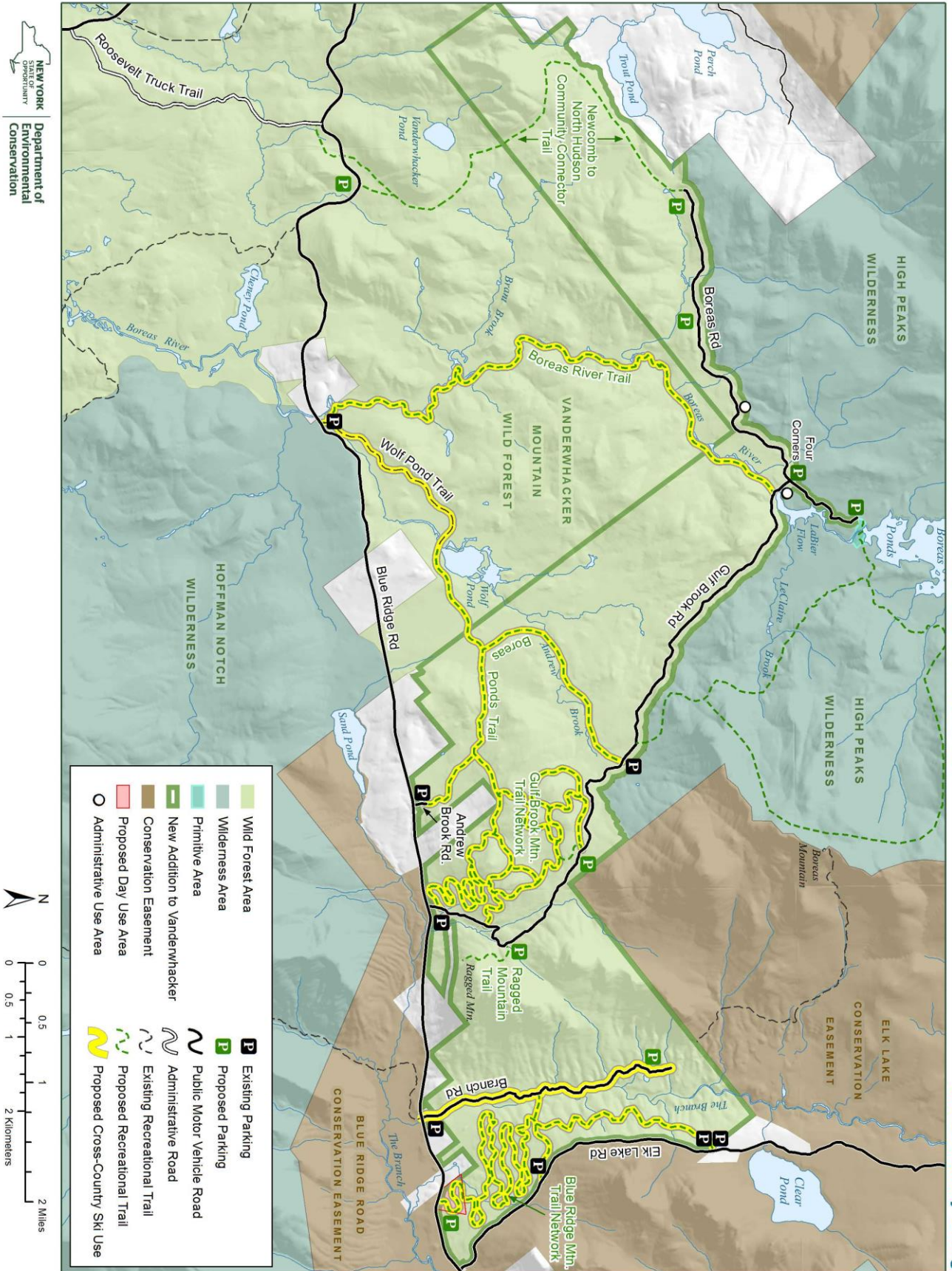
III. Recreational Resources and Human Uses

- Desired conditions for ski trails will be ones that have minimal expansion from the designed footprint of the built facility, doesn't negatively impact trailside vegetation and provides an enjoyable user experience.
 - Monitoring could include photo point locations, control measuring points, occurrences corridor expansion, and visible erosion in non-winter months.
- The following trails will be constructed and/or maintained with tread and drainage development standards of their first classification (Class IV or V) and the clearing width and height of a Class VIII ski trail. Except when impractical any bridges will be built as ski trail bridges:
 - Gulf Brook Mountain Bike Network
 - Blue Ridge Mountain Bike Network
 - Boreas Ponds Trail
 - Boreas Ponds Dam Trail
 - Boreas River Trail
 - Vanderwhacker Pond Tail
 - Newcomb Lake to Harris Lake Trail
 - LeClaire Hill Trail
- The Boreas Ponds Trail mentioned above will be important to establish before or simultaneously with the Newcomb to North Hudson Community Connector Trail. Gulf Brook and Boreas roads will likely see consistent snowmobile use throughout the winter months, so the Boreas Ponds Trail will serve as a non-motorized connection from Blue Ridge Road to the Fly Pond Parking Area. Beyond here the trail will tie into the proposals outlined in the High Peaks Wilderness Complex Amendment, which will extend the non-motorized use to Boreas Ponds.

III. Recreational Resources and Human Uses

Vanderwhacker Mountain Wild Forest - Boreas Ponds Tract

Cross-Country Skiing



M. Bicycling

Existing Conditions

Under the 2016 Interim Access Plan, mountain bikes are allowed from the entrance of the parcel at Blue Ridge Road 6.7 miles along the Gulf Brook Road and the road to the dam at Boreas Ponds. Two different proposals for mountain biking opportunities are discussed elsewhere in this amendment. Mountain biking options include long distance backcountry touring and stacked loop riding for both non-winter and winter cyclists. Both are primarily for singletrack proposals and their design and construction will be guided by the Management Guidance for Siting, Construction and Maintenance of Singletrack Bicycle Trails on Forest Preserve Lands in the Adirondack Park. Other cycling opportunities are available on certain roads that are open to bikes. Both options tie into several parking, camping and other recreational opportunities.

Desired Conditions for Mountain Bike Trail Monitoring

There are several proposed trails that will either be open to or purpose built for mountain bikes. Properly designed and constructed mountain bike trails will maintain their firm and stable surface for their intended use, with minimal maintenance. A sustainable trail endures environmental protection, user safety, function and enjoyment. Building a well-designed, sustainable trail that blends well with its natural surroundings enhances the user's experience and decreases user conflict. Like other facilities, the variables for mountain bike trails will include monitoring efforts to collect data on the presence of eroded areas, the expansion of the tread through vegetation loss, trash and human waste. Photo points will be a useful tool to help illustrate potential changes over time.

Proposed Management

Objectives

- Maintain trails to an appropriate standard to minimize resource impacts and preserve recreational usability.
- Educate recreational users about respectful multiple-use trail etiquette.
- Evaluate bicycling use and impacts.

Action Steps

- Monitoring for the desired conditions of Mountain Bike Trails will help measure and determine impacts to better inform carrying capacity development and long

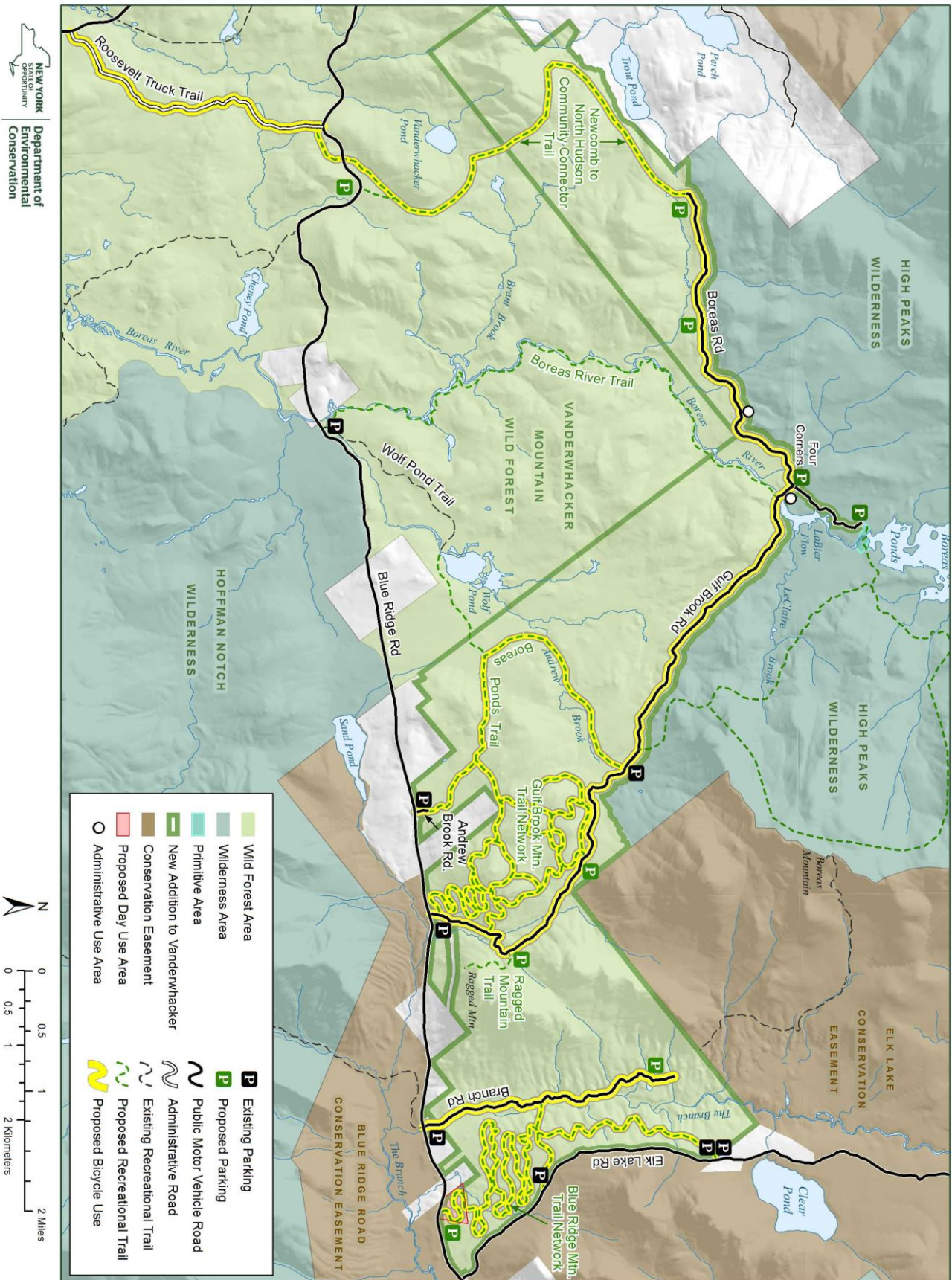
term planning. Final specifics will be detailed in the Wildland Monitoring Plan but generally:

- Desired conditions for Mountain Bike Trails will be ones that have minimal expansion from the designed footprint of the built facility, minimal erosion, does not negatively impact trailside vegetation, is free of occurrences of human waste, and litter, and provides an enjoyable user experience.
 - Monitoring could include photo point locations, control measuring points, occurrences of trash, and user surveys.
- Construct and manage single-track mountain biking pursuant to Management Guidance: Siting, Construction, and Maintenance of Single-track Bike Trails on Forest Preserve Lands in the Adirondack Park.
- Install up-to-date trail maps at kiosks/register boxes.
- Install multiple-use trail etiquette signage at all Complex Area parking areas/trailheads.
- Install signage where bicycling is not allowed.
- Encourage and support partnerships that help to show and evaluate use of the area
- Allow bicycle use in Wild Forest Areas on Gulf Brook, Boreas, Andrew Brook and Branch roads.
- Allow bicycle use on the Community Connector Trail.
- Construct and maintain the following the single-track mountain bike networks and their associated facilities discussed in the trails section of this plan:
 - Gulf Brook Mountain Bike Network
 - Blue Ridge Mountain Bike Network

III. Recreational Resources and Human Uses

Vanderwhacker Mountain Wild Forest - Boreas Ponds Tract

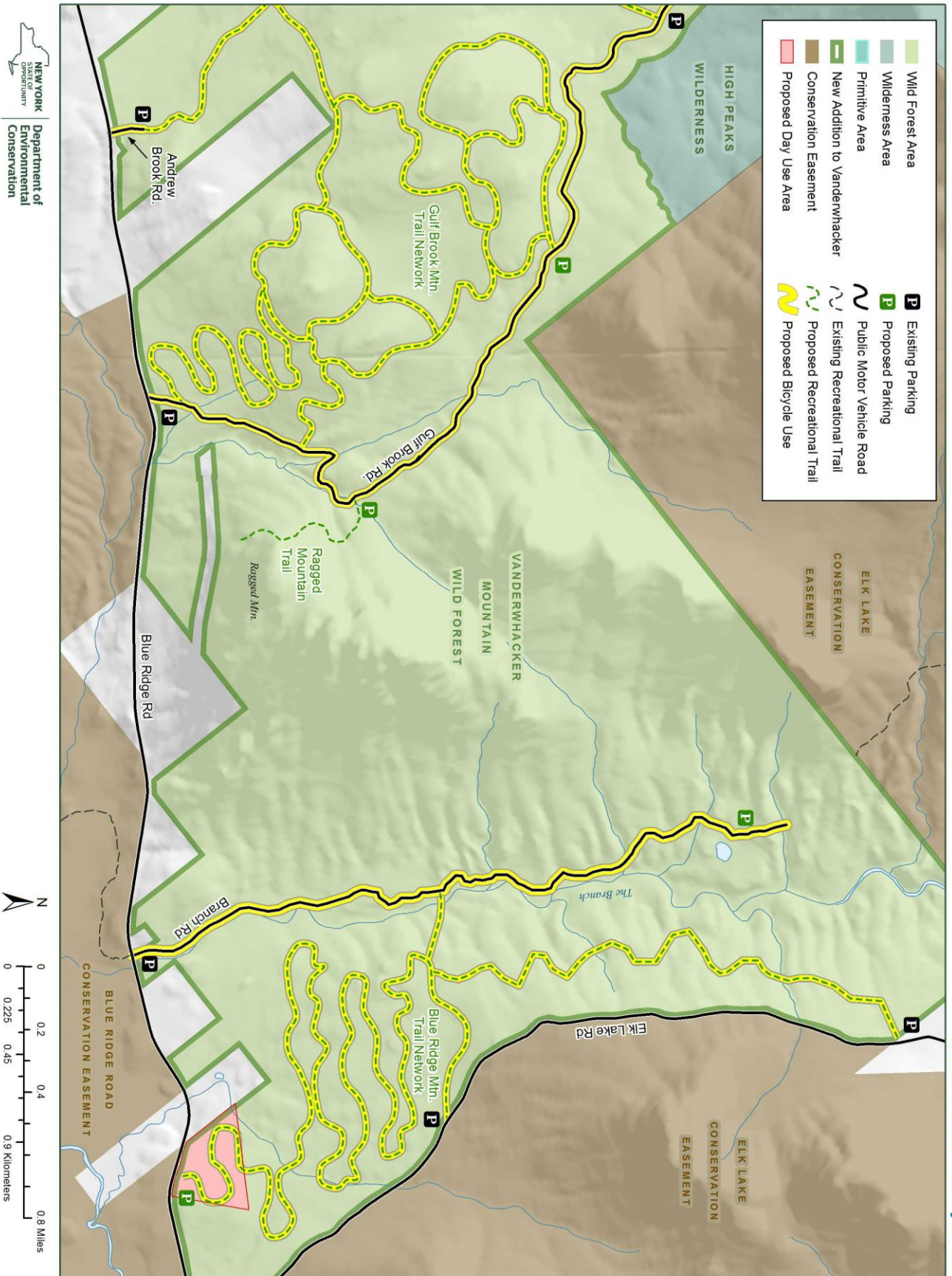
Bicycling



III. Recreational Resources and Human Uses

Vanderwhacker Mountain Wild Forest - Boreas Ponds Tract

Mountain Bike Trail Systems



N. Equestrian Use

Existing Conditions

Pursuant to the 2016 Interim Access Plan, horses are allowed on the property unless otherwise signed against it. The Blue Ridge, Fly Pond, Andrew Brook, Notch and Upper Elk Lake parking areas currently offer parking for horse trailers, and the Boreas and Gulf Brook roads offer enjoyable equestrian riding, but there are not purpose-built trails in place outside of the existing road system.

An important goal of this Amendment is to provide new equestrian opportunities in the Vanderwhacker Mountain Wild Forest, and facilitate access to the Boreas Ponds Primitive Area and High Peaks Wilderness Area. Facilitating a connection between the towns of North Hudson and Newcomb for longer through rides is also an important management goal.

Desired Conditions for Equestrian Facility Monitoring

There are several trails proposed to be open to equestrian use. Properly designed and constructed equestrian trails will maintain their firm and stable surface for their intended use, with minimal maintenance. A sustainable trail ensures environmental protection, user safety, function and enjoyment. Building a well-designed, sustainable trail that blends well with its natural surroundings enhances the user's experience and decreases user conflict. Like other facilities, the variables for equestrian trails will include monitoring efforts to collect data on the presence of eroded areas, the expansion of the tread through vegetation loss, and the occurrence of trash and human waste. It will also be important to monitor for the presence of invasive species on equestrian facilities. Photo points will be a useful tool to help illustrate potential changes over time.

Proposed Management

Objectives

- Provide recreational opportunities for equestrian trail riders in suitable locations.
- Maintain trails to appropriate standards, while minimizing environmental impacts.
- Provide information about uses allowed on and appropriate etiquette for multiple-use trails.

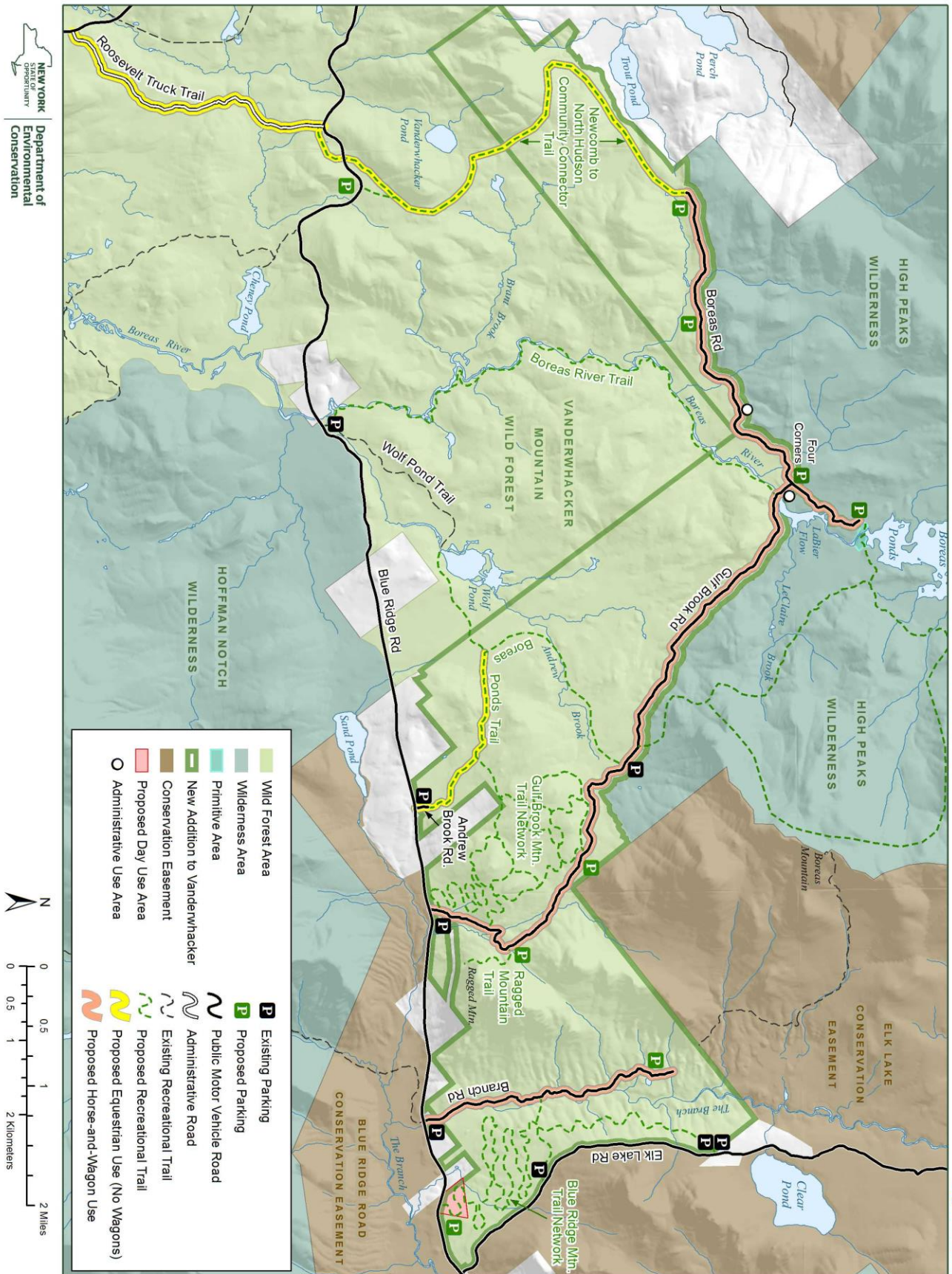
Action Steps

- Monitoring for the desired conditions of equestrian Trails will help measure and determine impacts to better inform carrying capacity development and long term planning. Final specifics will be detailed in the Wildland Monitoring Plan but generally:
 - Desired conditions for equestrian trails will be ones that are free of invasive species, has minimal expansion from the designed footprint of the built facility, does not negatively impact trailside vegetation, is free of occurrences of human waste or litter and provides an enjoyable user experience.
 - Monitoring could include photo point locations, control measuring points, survey of invasive species, surveys of visual occurrences of trash and user surveys.
- Allow equestrian and horse and wagon use on Gulf Brook, Boreas and Branch roads.
- Allow Equestrian Use on the Community Connector Trail and the Boreas Ponds Trail.
- Allow equestrian use on the Boreas Dam Trail.
- Provide equestrian mountain platforms at all equestrian campsites, the Blue Ridge, Fly Pond and Andrew Brook parking areas, near the LaBier Flow hand-carry launch, and in the vicinity of the Boreas Ponds Dam.
- Provide multiple-use trail etiquette information at all parking areas and trailheads.
- Install up-to-date trail maps at all parking areas and trailheads.
- Designate and mark horse trails with DEC trail markers.
- Install signage where equestrian trail riding is not allowed.
- Identify locations for equestrians where water is available for horses and install signage at these locations. Hitching posts or high lines may also be provided at these locations.
- Promulgate a regulation to prevent horses from entering wetlands and waterbodies, except through fords on designated trails.

III. Recreational Resources and Human Uses

Vanderwhacker Mountain Wild Forest - Boreas Ponds Tract

Equestrian



O. Rock Climbing

Background

Climbing, like hiking and skiing, has been long recognized as a legitimate recreational use of public lands. Like hiking and skiing, climbing in the Adirondacks traces its roots to the 1800's, with early technical ascents on Colden in 1850, and on Gothics in 1896. Increased interest and information on rock climbing can provide new and positive recreational opportunities but could potentially have some negative effects if not handled properly. Currently, informal trails lead to the climbing locations and as popularity increases and climbing routes are published through different media outlets, informal trails may increase in number and impact.

The Adirondack region remains one of few areas in the country where the placement of fixed climbing anchors (bolts) is not overly common, but is an increasing practice and a growing concern. The reputation of the region is one of traditional climbing, where bolts and pitons are the exception rather than the rule. The use of fixed anchors, particularly fixed expansion bolts, placed in holes drilled into the rock has been an issue of controversy in public land management (Access Fund, 2001). Fixed anchors have long been used by climbers as a method of protection where use of traditional removable protection (camming devices, chocks and nuts) is not possible. Fixed anchors, including bolts and slings placed around trees have also been used for rappel anchors. This practice can provide some level of protection to the natural resource by reducing damage to trees from girdling, caused when rappel ropes wrapped around trees are pulled down at the end of a climbing session. When placed indiscriminately, bolts and related fixed anchors can mar cliff faces and result in visibility impacts from the ground. The use of fixed anchors, when properly managed, can be an important management tool to protect the natural resource. Use of fixed anchors for protection on a climb that might not be possible without the placement of fixed or artificial anchors has engendered much more controversy both within and outside of the climbing community. The use of fixed anchors for this purpose in some areas has fundamentally altered the sport of climbing, resulting in a "climbing gym" atmosphere where numerous bolts are used to create a route where none previously existed. Like other areas of the Forest Preserve, fixed anchors have been documented in the Boreas Ponds Tract on Ragged Mountain. At least five routes are advertised on various climbing websites and publications. Popular climbing locations within the Boreas Ponds Tract and the Vanderwhacker Mountain Wild Forest in general must be further inventoried and monitored.

III. Recreational Resources and Human Uses

At this point in time the placement of bolts or other fixed anchors which involve drilling or defacement of the rock is a violation of Department regulations (6 NYCRR §190.8(g) -- "No person shall deface, remove, destroy, or otherwise injure in any manner whatsoever any . . . rock, fossil or mineral . . . excepting under permit from the Commissioner of Environmental Conservation and the Assistant Commissioner for State Museum and State Science Service . . ."). The APSLMP does not discuss the appropriateness of fixed anchors in the Adirondack Forest Preserve.

Existing Conditions

Rock, Ice and mixed climbing are allowed throughout all the tracts, and with the purchase of the Boreas Ponds Tract in 2016 Ragged Mountain saw an almost immediate use by climbers and has since seen steady use by the rock climbing community.

Because the Boreas Ponds Tract is relatively new to public use it is difficult to say how popular the climbing routes here will be. Without sufficient data on use and the environmental effects of that use, proposing specific management actions that manage climbing in the area is difficult. Data regarding the number of users and the environmental impacts of their use needs to be collected and evaluated over time in order to make sound management decisions. This UMP Amendment proposes actions to help mitigate natural resource impacts, improve the wilderness experience of climbers and other users and increase the education and outreach in areas where climbing is popular.

Desired Conditions for Climbing Monitoring

Climbing offers a slightly different set of variables for desirable conditions. The access routes are similar to hiking trails in that they will maintain their firm and stable surface for their intended use, and with minimal maintenance. A sustainable trail ensures environmental protection, user safety, function and enjoyment. The top and bottom of climbing routes are often located on steep slopes of various types that can be prone to erosion. Desirable conditions for routes are a firm and stable area to prepare for an ascent, a face that accepts removable anchors, and a top that is either firm and stable or that cannot easily be topped out or access for the use of slings. Somewhat similar to other facilities, the variables for climbing will include monitoring efforts to collect data on access trails for the presence of eroded areas, the expansion of the tread through vegetation loss, and the occurrence of trash and human waste. Variables to consider for the routes are firm and stable soils at the bottom and top of climbing routes, vegetation loss through both erosion and the use of slings to trees and the occurrence

of fixed anchors. Photo points will be a useful tool to help illustrate potential changes over time.

Proposed Management

Objectives

- Manage visitor use to keep impacts on the resource and experiences of all visitors at an acceptable level consistent with the concept of wild forest as described by the APSLMP.
- Monitor changes in use and level of use over time.
- Provide fair and equitable access to rock and ice climbing resources.
- Manage rock climbing sites to minimize environmental impacts.
- Keep the effects of visitor use on resources to a minimum.

Action Steps

- As prescribed in the carrying capacity discussion, collect use data through visitor number information, visual observations and photo documentation. DEC will also establish photo point monitoring locations to help monitor impacts at the base and top of climbing routes and on herd paths and approach trails. This data will help inform the decision-making process on future management decisions on these facilities.
- Monitoring for the desired conditions of Climbing Routes will help measure and determine impacts to better inform carrying capacity development and long term planning. Final specifics will be detailed in the Wildland Monitoring Plan but generally:
 - Desired conditions for Climbing Routes will be ones that have minimal impacts to the top and bottom of cliffs and access routes to popular locations, is free of occurrences of human waste or litter, does not have any expansion of fixed anchors and provides an enjoyable user experience.
 - Monitoring could include photo point locations, control measuring points, occurrences of erosion, vegetation loss and trash, and user surveys.
- Stabilize soil at the top and bottom of climbing routes where erosion is identified as a problem. Terracing and other forms of stabilization will be used if erosion begins to occur.
- Monitor popular climbing routes for resource degradation. Design, designate and construct sustainable trails to popular climbing destinations where herd paths are having a negative effect on the resource. These will be sustainably designed, constructed, maintained, re-routed, and improved to a Class III Trail standard.

III. Recreational Resources and Human Uses

- A temporary moratorium will be established relative to the establishment of new, or replacement of existing, bolts or fixed pitons. This moratorium will allow the Department to gather use data and monitor the environmental impacts of the area and will aid in making sound decisions for the management of climbing routes and their access facilities in the future.
- The Department will work with the climbing community to undertake an inventory of all existing fixed anchors in the unit. The Department will convene a focus group, including Department and Agency staff, members of the climbing community, environmental organizations and other interested parties to develop a park-wide policy on the management of fixed anchors on Forest Preserve lands. This moratorium will allow the Department to gather use data and monitor the environmental impacts of the area and will aid in making sound decisions for the management of climbing routes and their access facilities in the future.
- At parking areas near climbing areas, kiosks providing climbing-specific educational materials and LEAVE-NO-TRACE™ information shall be installed.
- Work with climbing interest groups to promote protection of wildlife and wildlife habitats that are found along climbing routes; this may involve temporary closures of specific climbing routes.
- Monitor popularity of climbing routes and numbers of climbers using those routes. Should large groups be causing resource degradation, this UMP supports the establishment of a regulation to limit group size to a maximum size of 10 persons and limited to utilizing a maximum of three roped climbing routes at any given time.

P. Fishing

Existing Conditions

Department angling regulations are designed to conserve fish populations in individual waters by preventing over-exploitation. Angling regulations effectively control impacts of angler use. The Department monitors the effectiveness of angling regulations, stocking policies, and other management activities by conducting periodic biological and chemical surveys. Based on analysis of biological survey results, angling regulations may be changed as necessary to protect the fish populations of the management area. Statewide angling and special angling regulations provide the protection necessary to sustain or enhance natural reproduction where it occurs.

In addition to angling regulations, factors at work in the unit which serve to limit use include remoteness of some ponds and streams from roads; the seasonal nature of

angling in coldwater ponds; and seasonal road closures. Because angler use of back country streams in the unit is believed to be light, the brook trout populations which they support can sustain anticipated harvest levels without damaging their capacity to maintain themselves naturally. When necessary, populations of coldwater gamefish are maintained or augmented by the Department's annual stocking program. The warmwater game fish species found in the unit also have proven their ability to maintain themselves under existing regulations without the need for annual stocking.

Proposed Management

Objectives

- Maintain the diversity of coldwater and warmwater fish populations in the unit.
- Encourage and promote angler use of the waters in the unit through routine fish management practices including hotlines, correspondence and contact with the public by Department staff.

Action Step

- Enforce current applicable Statewide and special fishing regulations in the waters of the Vanderwhacker Mountain Wild Forest.

Q. Hunting and Seasonal Access

Existing Conditions

The tracts provide an opportunity for a variety of wildlife related recreational pursuits. These include hunting, trapping, bird watching and wildlife photography. A number of mammals and birds may be hunted or trapped during seasons set annually by DEC. These species are identified in the Environmental Conservation Law (ECL), Sections 11-0903 and 11-0908. DEC has the authority to set hunting and trapping season dates and bag limits by regulation for all game species. The Boreas Ponds and MacIntyre tracts are located within Wildlife Management Units (WMU) 5H and 5F.

Wildlife related usage has historically centered around big game hunting, primarily for deer, although bear hunting, small game hunting and furbearer trapping are also prominent. Since the State took ownership of the area, white-tailed deer hunting during the regular big game season has been fairly popular.

III. Recreational Resources and Human Uses

Seasonal Motorized Access

The administrative portion of Boreas Road will be open for additional fall seasonal motorized access that coincides with regular big game hunting season. The gate at the Four Corners Parking Area will be opened in the fall until early December (road conditions and weather permitting). This encompasses muzzle loading, archery, and rifle deer seasons. As noted in the roads section of this plan, Forest Preserve roads are intended to provide safe public access to the tracts as long as possible each season. The forest Preserve Roads in the Boreas Ponds Tract tend to build ice in late October and early November. Slippery conditions coupled with the steep hills along the road increases public safety concerns. As wet conditions and frost set into the road bed in the fall, roads will be closed for the season to protect public health and safety and the road bed. Seasonal camping permit holders will be notified of impending road closures prior to the closure. Road closures will be accomplished through the closure of gates and information on road conditions will be posted on the Department website.

Proposed Management

Objectives

- Maintain up-to-date public information regarding hunting and trapping opportunities and any associated regulation changes.
- Continue to provide additional fall seasonal access to the area during big game hunting season.

Action Steps

- Open the western segment of Boreas Road in the fall to provide seasonal motorized access that coincides with regular big game hunting season. This road will remain open until early December unless unsafe or soft road conditions dictate otherwise.
- Support educational opportunities related to hunting and trapping, and enforce hunting and trapping regulations.
- Evaluate the primitive tent sites along Forest Preserve roads. Those sites that see little use may be moved to more desirable roadside locations. For relocated sites, motor vehicle pull offs may be constructed if site conditions warrant.
- Assess use levels of the seasonal access on Boreas Road. If use levels remain relatively low, then the discontinuation of this access route will be considered.
- Maintain seasonal access routes, signage, gates, and parking to an appropriate and usable standard.

R. Camping

Existing Conditions

Although designated primitive tent sites do not currently exist, primitive camping and campfires are allowed on these tracts pursuant to existing Department camping regulations (6 NYCRR Section 190.3(b)). Since the acquisition of the tracts several suitable tent site locations have been identified and are discussed below.

Desired Conditions for Tent Site Monitoring

Emphasis is given throughout the plan on well designed and constructed facilities that promote resource protection and will maximize long term sustainability. Tent Sites are a great example of the importance of constructing a well-built, sustainable facility up front. Choosing a suitable location and constructing a tent site with a hardened tent pad ensures initial and long term environmental protection. These facilities will exhibit a comfortable, well drained tent pad, usable fire pit, and a sanitary privy. Beyond the obvious environmental benefits, these facilities add to the user's experience as much as a desirable location does. The monitoring variables for tent sites will include efforts to collect data on the expansion of the designated area through vegetation loss, soil compaction, and the occurrence of trash and human waste. Photo points will be a useful tool to help illustrate potential changes over time.

Proposed Management

Objectives

- Build and maintain high quality primitive tent sites and lean-tos with associated infrastructure (access trails, fire rings, privies, cleared level areas for tents, and occasionally picnic tables).
- Provide scenic camping opportunities at regular intervals along trails for multi-day camping opportunities and for a variety of recreational methods.
- Provide primitive camping opportunities for people with disabilities.
- Keep designated tent sites properly spaced (out of sight and sound from each other, and generally one quarter mile apart) to maintain the solitude of the Wild Forest setting.
- Provide favorable designated tent sites in a manner which minimizes impact to the site while providing an enjoyable experience for the user.

III. Recreational Resources and Human Uses

Action Steps

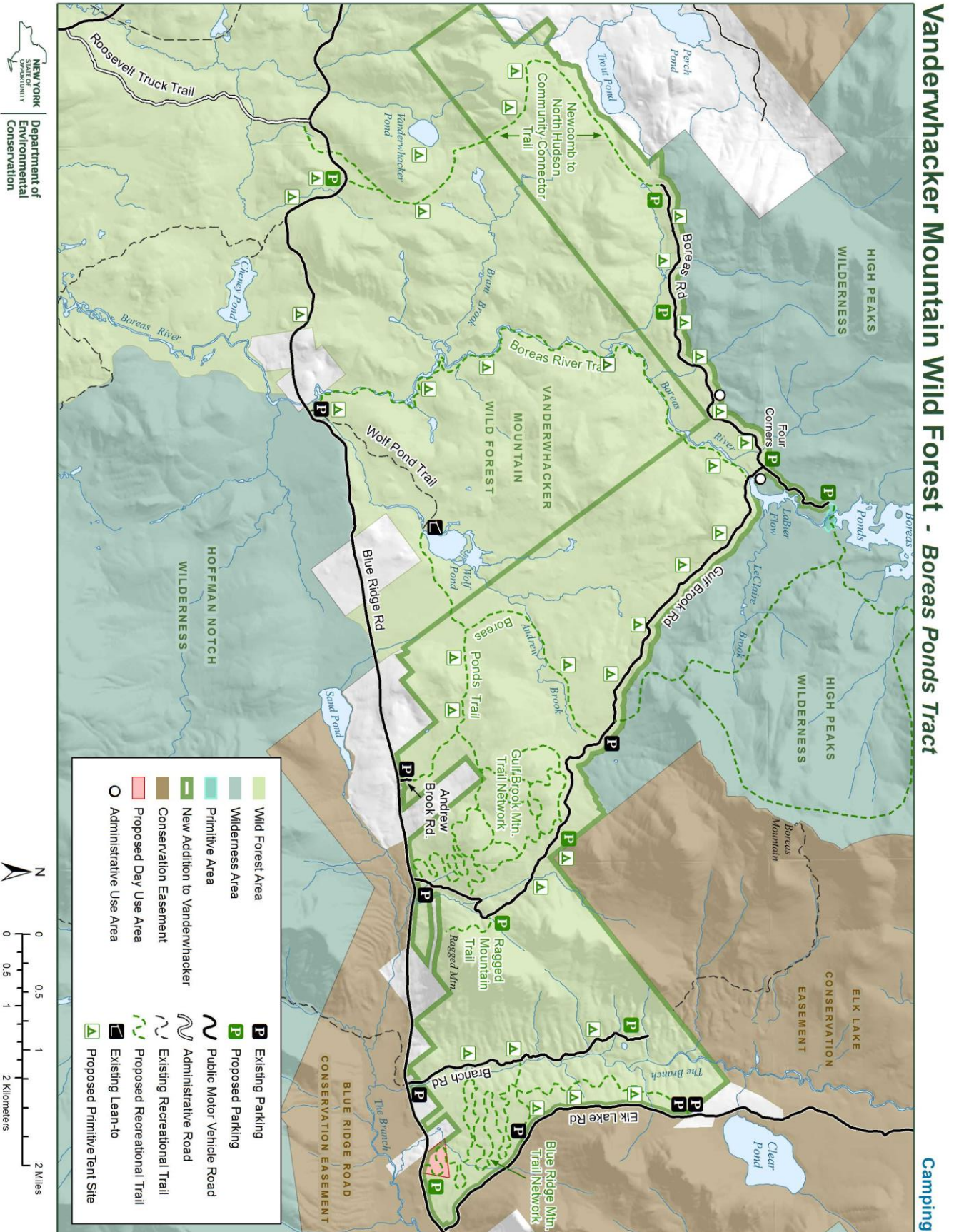
- Monitoring for the desired conditions of tent sites will help measure and determine impacts to better inform carrying capacity development and long term planning. Final specifics will be detailed in the Wildland Monitoring Plan but generally:
 - Desired conditions for tent sites will be ones that have minimal expansion from the designed footprint of the built facility, does not negatively impact adjacent vegetation, shows minimal signs of compaction, is free of occurrences of human waste or litter and provides an enjoyable user experience.
 - Monitoring could include photo point locations, control measuring points, occurrences of trash, vegetation loss, and user surveys.
- Designate tent sites near two cleared areas along the south side of Blue Ridge Road to the west of Cheney Pond. These areas often serve as roadside tent sites, especially during big game season. Both sites have adequate room for parking, are located in suitable locations and are somewhat near the community connector trail.
 - The westernmost site is currently used for parking and access to a hunter's herd path to the north. A tent site and short connector trail will be constructed beyond the tree line to the south of the parking area. The parking lot is currently large enough to accommodate four cars. If encroachment onto the neighboring grassy area or the trail to the tent site becomes evident the outer limits of the parking area will be delineated.
 - The tent site to the east has a short pull off road approximately 50' long and will fit up to two vehicles. The road will be graded and hardened to support motor vehicle parking and the tent site will be improved to support ongoing use. Parking will be limited to the access road and will not be allowed in the tent site itself.
- Improve the existing tent site at the Cheney Pond, Overlook south of Blue Ridge Road to meet current accessible standards. A Motorized Access Program for People with Disabilities (MAPPWD) gate will be placed across the access road within sight of Blue Ridge Road. Permit holders will be able to drive directly in to the tent site. A two car parking area will be installed between Blue Ridge Road and the MAPPWD gate for the general public. The access road will also be graded and improved.

- Improve and update the existing tent site by the Boreas River/Wolf Pond parking area on Blue Ridge Road to a more accessible standard that will allow for roadside camping.
- Construct a new tent site and access trail off Andrew Brook Road. Parking for the site will be in the existing parking area.
- Construct six tent sites along Gulf Brook Road. Of these sites, three will be constructed to meet current accessible standards. A two to three car parking area for each site will be constructed. One space in each parking area will be reserved for campsite use only and the other spaces will be open for general Forest Preserve access.
- Construct six tent sites along Boreas Road between the four corners and the private land boundary to the west. Of these sites, three will be constructed to meet current accessible standards. Roadside accessible sites will have equestrian mounting platforms and high lines for horses. Accessible sites located off the road will have accessible compliant access trails from Boreas Road to the campsite. Where suitable, the other roadside tent sites may also have similar equestrian facilities. A two to three car parking area for each site will be constructed. One space in each parking area will be reserved for campsite use only and the other spaces will be open for general Forest Preserve access.
- Construct up to five accessible tent sites along Branch Road. These will all be roadside sites with a two-car parking area. There are existing openings along the road that can be utilized to minimize the amount of tree cutting and site work necessary. These will likely be attractive tent sites for CP-3 permit holders along with users of the adjacent Blue Ridge Mountain Bike trails. It is thought that user created herd paths will be developed from each site due to their proximity to the Branch River. To maximize sustainability, a class-III foot trail, as identified in Appendix E, will be developed from each roadside tent site to the river bank. The river is not generally high enough to be usable by boats so direct water access and associated hardening will not be necessary. These sites will be monitored and if bank stabilization is needed in the future it can be installed at that time. A phased approach will be taken with these tent sites. The three universally accessible sites will be constructed first. If a greater demand is seen through either the roadside access or through the mountain bike use discussed in the trails section, then two additional sites may be constructed.
- Construct three tent sites along Elk Lake Road. These sites will have their own two car parking areas and will likely serve the adjacent mountain bike network and the HPWA equally well.

III. Recreational Resources and Human Uses

- Using a phased approach based on use levels, construct up to seven primitive tent sites along the Boreas River trail. Initially two sites will be constructed and their use will be monitored. If the sites are being well-used and additional sites are seen as desirable, then up to three more sites may be constructed. This is a conditional action and will rely on the phased approach.
- Evaluate use-levels along the Boreas River trail, and if needed, build a lean-to in two of the most popular primitive tent sites along the trail (conditional action).
- Using a phased approach based on use levels, construct up to six primitive tent sites along the Boreas Ponds Trail. Initially two sites will be constructed and their use will be monitored. If the sites are being well used and additional sites are seen as desirable, then up to three more sites may be constructed. This is a conditional action and will rely on the phased approach.
- Construct up to three primitive tent sites along the Vanderwhacker Pond area of the Community Connector Trail between Blue Ridge Road and Boreas Road. Where suitable for horse use, these sites will have equestrian facilities available. This is a conditional action and will rely on the phased approach.
- Construct one primitive tent site on Vanderwhacker Pond. This will be accessed by a short class III primitive trail constructed between the community connector trail and the pond. A class III primitive trail will also connect the campsite to the water's edge and will be sited and constructed sustainably. This is a conditional action and will rely on the phased approach.
- Construct a roadside tent sites along Tahawus Road approximately 0.5-mile north of the Sanford Lake Parking Area. This site will have a two car parking area and short access trail. This will serve for general roadside camping and users of the nearby HPWA.
- Develop two water-access tent sites near the eastern shore of Sanford Lake. Access trails from the lake shore to the tent sites will be developed as well. The closest access to service these sites will be the Sanford Lake Parking Area and Hand Cary Launch.
- Develop up to three primitive tent sites along the Newcomb Lake to Harris Lake Trail. Two sites to be located on the northern side of Duck Hole were proposed in the 2015 CCTP. This plan proposes one new tent site beyond the ones described in the 2015 Community Connector Trail Plan (CCTP). Using the phased approach two more may be developed later and will be located along the new section of trail on the east side of the Newcomb River and north side of Lower Duck Hole. Short access trails may be constructed to access these sites. This is a conditional action and will rely on the phased approach.

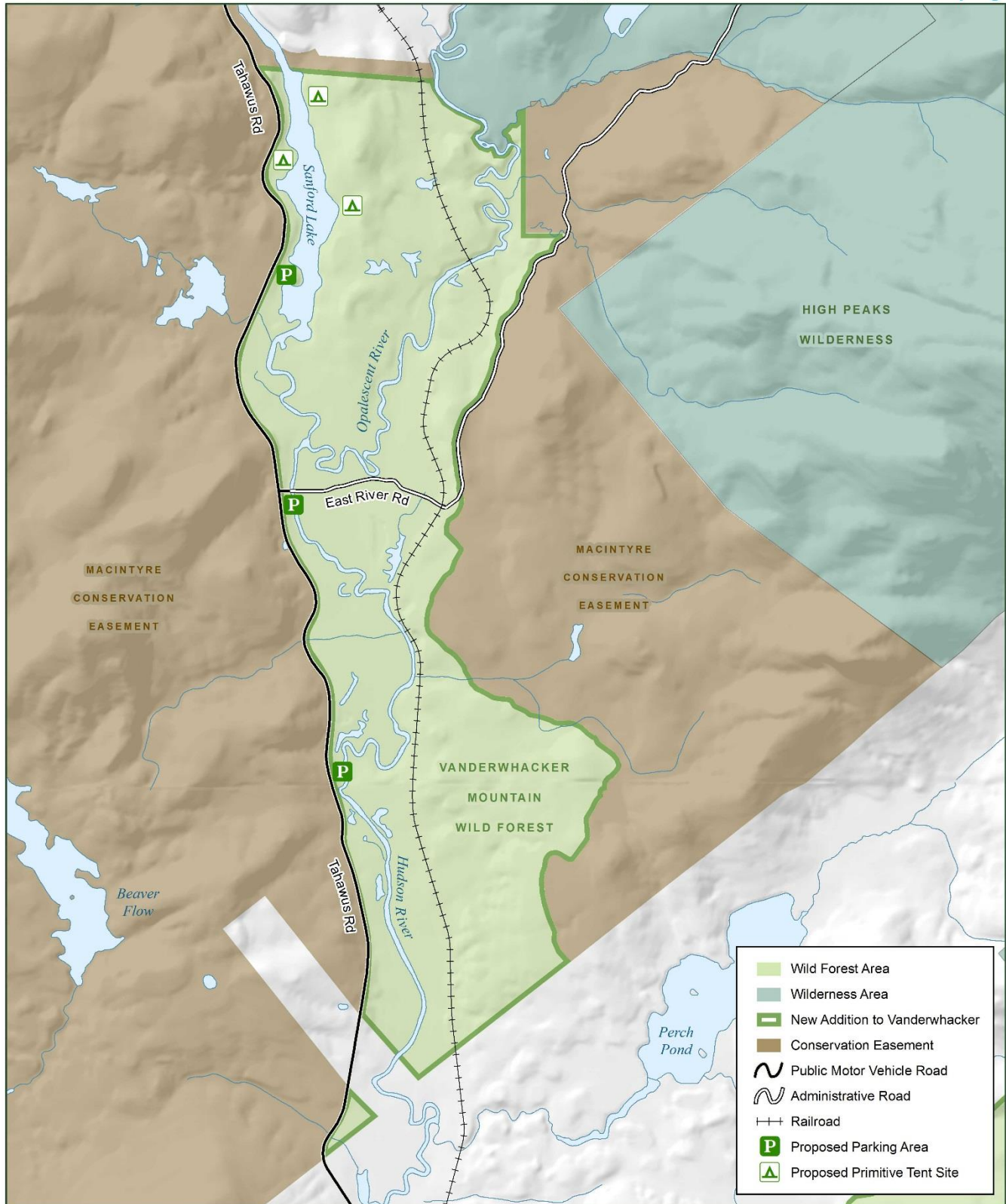
III. Recreational Resources and Human Uses



III. Recreational Resources and Human Uses

Vanderwhacker Mountain Wild Forest - MacIntyre East Tract

Camping



S. Use Reservations

1. Leases

Existing Conditions

There are seven lessees who leased portions of the Boreas Ponds and MacIntyre tracts from Finch Pruyn prior to the addition of the lands to the Forest Preserve. The clubs have access and use rights that are different from the general public's access and use provisions. Their leases expire on September 30, 2018, and all lessee camp buildings and property must be removed no later than October 1, 2019.

Proposed Management

Objectives

- Ensure compliance with Leaseholder Management Agreement.
- Reduce the potential for conflict between lessees and the general public.

Action Steps

- Monitor lessees and the general public for compliance with access and use provisions and restrictions on Forest Preserve lands in the area.
- Maintain facilities in a manner that allows The Nature Conservancy and their lessees to have adequate access to remove their camps by October 1, 2019.

2. Gravel Easement

History

In March 2016, a Deed of Easement was granted to the towns of North Hudson and Newcomb from The Nature Conservancy for use of two gravel pits on the Boreas Ponds Tract. The LaBier Flow Pit having an approximate geographic position of N 43°59'32.06" W 73°56'32.06", is located along Gulf Brook Road between the LaBier Dam and the Four Corners Parking Area. The Brace Brook Pit having an approximate geographic position of N 43°59'29.11" W 73°57'42.16", is located on the north side of Boreas Road approximately 1.25 miles west of the Four Corners Parking Area. These two gravel pits are classified as State Administrative.

Existing Conditions

The towns of North Hudson and Newcomb have a non-exclusive right to access and mine gravel from the LaBier Flow and Brace Brook Pits. A yearly TRP issued by DEC to the towns, will outline the areas the gravel may be used. The gravel pits may not exceed one-acre in size each, and when deemed exhausted by DEC, will be reclaimed. Upon reclamation of the gravel pits, these State Administrative areas will be reclassified as wild forest.

Proposed Management

Objective

- Ensure compliance with Forest Preserve Regulations, Guidelines, Policies, and terms set forth in the Easement.

Action Steps

- Issue TRPs to the towns of Newcomb and Minerva for gravel pit access and extraction.
- Monitor for compliance with TRP standard terms and any applicable special conditions.
- Delineate the boundaries of each gravel pit, which will discourage the lateral spread of extraction outside the one-acre boundaries.
- Monitor gravel pits in consultation with DEC Minerals Staff, and reclaim the pits when they become exhausted.

T. Historic Boreas Cabin

History

The building now called the Boreas Ponds Cabin or the Boreas Cabin is a log structure located on Boreas Road just south east of the intersection of Gulf Brook Road and an unnamed road. The building of whole spruce log construction is roughly 32 feet by 29 feet in size. Logs used to construct it range in size from 8 to 12 inches in diameter. The roof is metal and has been replaced in the recent past. The interior of the building is divided into several rooms and appears to have changed many times. The structure has no basement and no formal foundation.

The history of the cabin is not fully understood. Local tradition stated a purported date of construction of around 1812. It was thought to have been associated with the Cedar Point or Military Road, which was partially constructed immediately following the War of 1812. This road was to extend from Port Henry on Lake Champlain to Sackets Harbor on Lake Ontario. No corroborating information could be found, including period maps or documents to support this date. Furthermore, the building's size and style are not consistent with similar buildings known to be of that age such as the Adsit Cabin in Willsboro and others.

As part of fulfilling the Department's obligations under the New York State Historic Preservation Act research was conducted to ascertain the age and origin of the building. It does not appear on 19th century atlas or other maps and it is not mentioned in local histories written during that period. Available historic documentation has the property being acquired by Finch, Pruyn and Co. soon after the dams that created the Boreas Ponds were built. The company acquired the property in 1891 and commenced logging in the area soon thereafter.

Dendrochronology (tree ring dating) was applied to determine the age of the structure. This work was undertaken by Dr. David J. Barclay (SUNY Cortland) and Dr. John A. Rayburn (SUNY New Paltz). More than a dozen core samples were collected from different logs. These produced a conclusion that the logs composing the structure were cut in the winter of 1891-1892 (Barclay and Rayburn 2016). This is consistent with the known history of the property and suggest that the building was constructed in association with logging activity.

Other information available also supports this. The building style is consistent with that of log buildings appearing in photographs of logging operations from that period. Surviving photographs of the site show a number of barns and workshops on the site around 1900. Further, the top logs on the gables of the cabin contain beam pockets suggesting lean-to roofs. It is likely that this structure is a potentially rare, surviving example of a 19th century logging camp structure. Such buildings were usually constructed with the expectation that they would be used for a few years at most. This structure, probably due primarily to its convenient location in relation to the ponds and the road network, remained useful, was maintained and therefore survived to the present. The Office of Parks, Recreation and Historic Preservation determined the building eligible for inclusion in the State and National Registers of Historic Places on October 12, 2016.

Existing Conditions

The Department must adhere to §14.09 of the Parks, Recreation, and Historic Preservation Law, the State Historic Preservation Act (SHPA). This law states, in part, that DEC “shall fully explore all feasible and prudent alternatives and give due consideration to feasible and prudent plans which avoid or mitigate adverse impacts on such property.” According to a recent evaluation by the New York State Office of Parks, Recreation, and Historic Preservation (OPRHP), the building meets eligibility criteria for listing on the State Register of Historic Places, and thus are historically significant.

Proposed Management

Ten alternative actions were considered for the disposition of the Boreas Cabin. A full discussion of these alternatives can be found in Appendix B:

- Maintenance
- Maintenance and Interpretation Alternative A (*preferred alternative*)
- Maintenance and Interpretation Alternative B
- Maintenance and Administrative Use (*preferred alternative*)
- Hut-To-Hut
- Demolition
- Demolition and Interpretation
- Relocation
- No-Action Alternative (Abandonment)

Objectives

- To protect the Wild Forest character and natural resource quality of the Adirondack Park, through adherence to the guidelines of the APSLMP and related law.
- To protect the State’s historic resources through adherence to SHPA.
- Comply with SHPA, the APSLMP, ECL, and DEC Rules and Regulations and Policies.

Action Steps

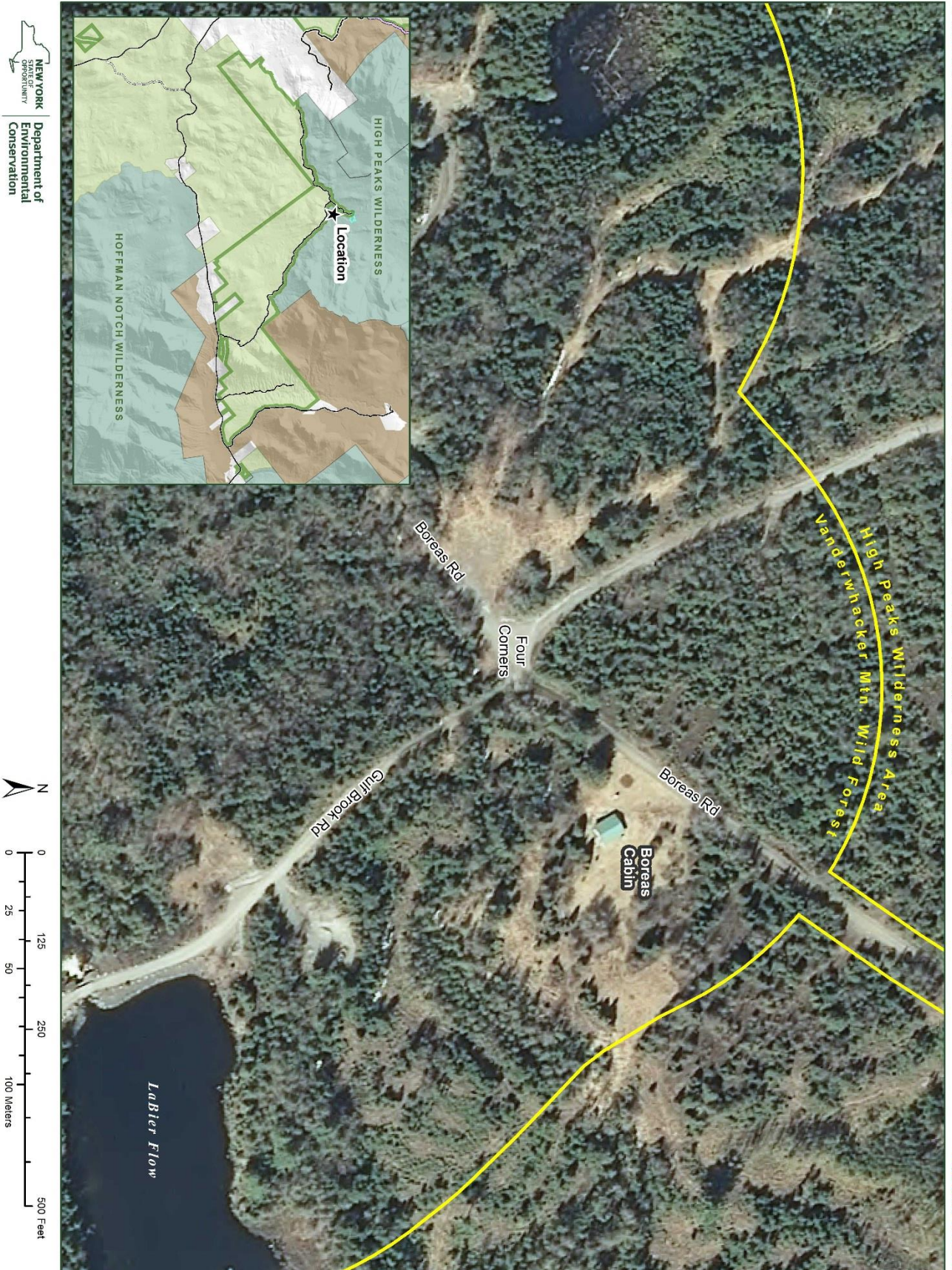
- For the immediate future, maintain the cabin as a historic structure to the level in which it was acquired and evaluate the public’s interest in the site through visual observations. Using the phased approach these observations will help guide the final disposition of the building.

- The preferred alternative for the cabin is combination of the Maintenance and Interpretation Alternative A and the Maintenance and Administrative Use Alternative. The combination of these alternatives allows for the site to serve a role in the management and potential emergency services of the area, and offer natural and historic education to the public. The combination of uses also may help secure funding for rehabilitation and maintenance while preserving the historic nature of the site.
- If sufficient funding for management and maintenance to implement the preferred alternatives is not received, and the building falls into disrepair or becomes a public nuisance, then the Demolition and Interpretation Alternative will become the preferred alternative.
- Continue consulting OPRHP through the implementation of the alternatives.

III. Recreational Resources and Human Uses

Vanderwhacker Mountain Wild Forest - Boreas Ponds Tract

Boreas Cabin



U. Phases of Implementation

Background

The overall guidance throughout this UMP Amendment is based on implementing the prescribed management actions in phases that allows land managers to continuously monitor and evaluate the carrying capacity of the lands affected. The phases are outlined to provide initial access to facilities, which will then be monitored for use and impacts to the environment. Once ground use data is collected through monitoring it will be evaluated to determine if the specific thresholds of each facility have been met in order to activate the following phase of the plan. With this phased approach it is understood that the actions in phase 1 will be constructed, and once the carrying capacity of the area in relation to the phase 1 facilities is evaluated successive phases may be implemented. Successive phases are conditional and will need to be activated in order to be constructed. This process will be repeated for each facility outlined below. Monitoring results, will determine if successive phases will be started, if the facility will be maintained at its current level of development, or if we need to step back a phase and re-evaluate our management strategy. Through this process we can methodically develop opportunities, monitor them and make decisions to realize the management goals for the area. The full phased schedule of implementation is found below in the action steps.

Proposed Management

Objectives

- Implement the management actions outlined throughout this amendment in accordance with the schedule of implementation below
- Collect baseline data related to recreational use and the physical condition of the newly acquired lands
- Monitor facilities on an ongoing basis and evaluate them through the LAC process
- Use the latest best management practices (BMPs) available in the siting and construction of all facilities

III. Recreational Resources and Human Uses

Action Steps

PHASE 1
Planning
Develop the Wildland Monitoring Program that will be used in association with the Work Planning process to implement the phases of implementation.
Annually collect and tally trail register information.
Begin monitoring program for any new facility built.
Wild Forest Conformance
Remove the Lessee camps by September 30, 2019
Complete a dam safety inspection on the LaBier Flow Dam by Department Engineers.
Education and Outreach
Start the education and outreach program to inform the public about land ownership, classification, regulations, and leave-no-trace.
Install signage across the unit at ownership and classification boundaries.
Special Management
Establish the Day Use area proposed in the UMP Amendment. Provide signage and education-outreach efforts.
Promulgate a regulation prohibiting parking outside of a designated parking space.
Promulgate a regulation prohibiting overnight use in the Blue Ridge Day Use Area.
Promulgate a regulation prohibiting camping further than 15 feet from a camping disk while camping in a primitive tent site.
Maintain the condition of the historic cabin near LaBier Flow to the level in which it was acquired and evaluate the public's interest around the site. In keeping consistent with the phased approach these observations will help guide the final disposition of the building. Establish a photo monitoring program and monitor the site annually.

Access and Parking

Maintain all of the existing parking areas, install trailhead signs, privy and kiosk/register box's where prescribed in this Amendment. Establish a photo monitoring program and monitor the sites annually.
--

Upgrade the Gulf Brook, Boreas, and Branch roads to a standard that will support public motor vehicle traffic. This will include the cleaning or replacement of drainage devices, cleaning of ditches, grading the road surface, the addition of fill on the road surface, etc. Once complete, establish a photo monitoring program and monitor the roads annually.

Upgrade the Blue Ridge Parking Area and the section of Gulf Brook Road between the parking area and Blue Ridge Road to accommodate cars and trailered vehicles. Once complete, establish a photo monitoring program and monitor the site annually.
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Construct the 6-car Boreas Dam Parking Area and all its appurtenances to an accessible standard. This includes the installation of an administrative gate to service the Boreas Dam and a gate at the four-corners to service the permit system.
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Implement the permit system that will be used to access the Boreas Dam Parking Area.
--

Construct the 15-car parking area and all its appurtenances in the four-corners near the intersection of Gulf Brook and Boreas Roads. Once complete, establish a photo monitoring program and monitor the site annually.
--

Construct the 4-car Brace Brook Parking Area and all its appurtenances.

Construct the 6-car Bunting Parking Area and all its appurtenances near the western end of Boreas Road.

Construct the 8-car Ragged Mountain Parking Area and all its appurtenances.

Construct the 2-car Bernie Pond Parking Area and all its appurtenances.

Construct the 5-car East River Road Parking Area and all its appurtenances.

Upgrade the 6-car Wolf Pond/Boreas River Parking Area

Perform annual and as needed maintenance on the road system within the Boreas Ponds Tract.
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Water Access

Construct the hand-carry launch near the dam on Boreas Ponds, along with the accessible trail connecting the Parking area to the launch site. Once complete, establish a photo monitoring program and monitor annually.

Construct the hand-carry launch on LaBier Flow, along with a staging area on Gulf Brook road and an access trail connecting the staging area to the Hand Cary Launch. Once complete, establish a photo monitoring program and monitor annually.

III. Recreational Resources and Human Uses

The trail between Boreas Road and the hand-carry launch on the northern end of LaBier Flow will be constructed in conjunction with the launch itself, which is located in the High Peaks Wilderness Area. Once complete, establish a photo monitoring program and monitor annually.
Construct the hand-carry launch on the Hudson River to the north of the East River Road Parking Area, along with an access trail connecting the parking area to the launch. Once complete, establish a photo monitoring program and monitor annually.
Construct the Sanford Lake Parking Area, hand-carry launch and access trail. Once complete, establish a photo monitoring program and monitor annually.
Construct the Tahawus Road Parking Area, hand-carry launch and access trail. Once complete, establish a photo monitoring program and monitor annually.
Trails
Construct the Newcomb to North Hudson Community Connector Trail. Once complete, establish a photo monitoring program and monitor the trail annually.
Construct the Ragged Mountain Trail. Once complete, establish a photo monitoring program and monitor the trail annually.
Construct the Ragged Mountain Climbing Access Trail. Once complete, establish a photo monitoring program and monitor the trail annually.
Construct the Wild Forest portion of the Boreas Ponds Trail in conjunction with the Wilderness portion of trail to the north. This connection is important to complete before the Community Connector Trail is open to establish a non-motorized connection to Boreas Ponds. Once complete, establish a photo monitoring program and monitor the trail annually.
Camping
Construct the 6 primitive tent sites along Gulf Brook Road. A 3-car parking area, access route, and all the appurtenances will be constructed and installed as well. Once complete, establish a photo monitoring program and monitor the sites annually.
Construct the 6 primitive tent sites along Boreas Road. A 3-car parking area, access route, and all the appurtenances will be constructed and installed, including the equestrian facilities at the three accessible sites.

Construct the 3 primitive tent sites along Elk Lake Road. A 2-car parking area, access route, and all the appurtenances will be constructed and installed as well. Once complete, establish a photo monitoring program and monitor the sites annually.

Construct the 3 accessible tent sites along the Branch Road. A 3-car parking area, access route, and all the appurtenances will be constructed and installed as well. Once complete, establish a photo monitoring program and monitor the sites annually. As part of the phased approach, these sites will be monitored to assess use and changes in condition before the additional allowable sites will be constructed.

Construct the primitive tent sites along Tahawus Road. A 3-car parking area, access route, and all the appurtenances will be constructed and installed. Once complete, establish a photo monitoring program and monitor the sites annually.

Construct the primitive tent site off Andrew Brook Road. An access route from the existing parking area and all the appurtenances will be constructed and installed. Once complete, establish a photo monitoring program and monitor the site annually.

Construct the 2 primitive tent sites off the south side of Blue Ridge road west of Cheney pond. The parking areas, access routes, and all the appurtenances will be constructed and installed at both sites. Once complete, establish a photo monitoring program and monitor the sites annually.

Improve the existing Cheney Pond Overlook tent site to accessible standards. Once complete, establish a photo monitoring program and monitor the site annually.

Improve the existing Blue Ridge/Boreas River tent site at the Wolf Pond Trailhead to accessible standards. Once complete, establish a photo monitoring program and monitor the site annually.

Monitoring

As the facilities described above are constructed they will be monitored for their desired conditions. In utilizing the phased approach this step is paramount to evaluate the capacity of these facilities to withstand use and determine when or if the next phases of the amendment should be implemented.

The facilities described through this phasing will continually be monitored for visitor experience, use and changing condition. If the desired conditions of the facilities or the land where they are located are found not to be realized, then corrective measures such as site relocation or closures will be implemented.

III. Recreational Resources and Human Uses

PHASE 2
Education and Outreach
Continue education and outreach programs.
Special Management
Implement the preferred alternatives for the historic cabin near LaBier Flow. Once complete, establish a photo monitoring program and monitor the site annually.
Access and Parking
Construct the 3-car Niagara Brook/LeClaire Hill Parking Area and all its appurtenances off the edge of Blue Ridge Road. Once complete, establish a photo monitoring program and monitor the site annually.
Construct the 4-car Hudson River Tract Parking Area and all its appurtenances off the edge of Campground Road. Once complete, establish a photo monitoring program and monitor the site annually.
Perform annual and as needed maintenance on the road system within the Boreas Ponds Tract.
Trails
Construct the Boreas River Trail. Once complete, establish a photo monitoring program and monitor the trail annually.
Construct the Vanderwhacker Pond Connection from the Community Connector Trail. Once complete, establish a photo monitoring program and monitor the trail annually.
Construct the first phase of the Gulf Brook Mountain Bike Trail Network. Once complete, establish a photo monitoring program and monitor the trails annually.
Construct the first phase of the Blue Ridge Mountain Bike Network, Blue Ridge Mountain Bike Day Use Area Parking area, 5 initial picnic tables and access trails, and the Elk Lake to Branch Road Mountain Bike Connection. Constructing these together as a network will allow for connectivity over a broader area and facilitate camping opportunities. Once complete, establish a photo monitoring program and monitor the sites annually. As part of the phased approach, this system will be monitored to assess use and changes in condition before additional day use facilities will be installed.

III. Recreational Resources and Human Uses

Construct the remaining portions of the Newcomb Lake to Harris Lake trail to make the full connection from Campground Road to Newcomb Lake. Once complete, establish a photo monitoring program and monitor the trail annually.

Construct the Wild Forest portion of the LeClaire Trail in conjunction with the Wilderness portion of trail to the north. Once complete, establish a photo monitoring program and monitor the trail annually.

Camping

If efforts associated with the phased approach determine the carrying capacity, through monitoring desired conditions of the Boreas Ponds Trail and the Community Connector Trail, can withstand more use and there is a public interest for camping opportunities, then the first phase of proposed tent sites will be constructed on each trail. Once sites are complete, establish a photo monitoring program and monitor the sites annually.

Construct the 2 tent sites called for in the 2015 CCTP on the north side of Lower Duckhole. As part of the phased approach these will be constructed prior to the newly proposed sites on this trail. Once complete, establish a photo monitoring program and monitor the sites annually.

Monitoring

As the facilities described above are constructed they will be monitored for their desired conditions. In utilizing the phased approach this step is paramount to evaluate the capacity of these facilities to withstand use and determine when or if the next phases of the amendment should be implemented.

The facilities described through this phasing will continually be monitored for visitor experience, use and changing condition. If the desired conditions of the facilities or the land where they are located are found not to be realized, then corrective measures such as site relocation or closures will be implemented.

III. Recreational Resources and Human Uses

PHASE 3
Education and Outreach
Continue education and outreach programs.
Access
If monitoring efforts associated with the phased approach determine the carrying capacity, through monitoring desired conditions of the Blue Ridge Mountain Bike Day-Use area, can withstand additional use and there is public interest in additional picnic tables, access trails and privies will be installed within the day-use area. Once complete, establish a photo monitoring program and monitor the sites annually.
Construct the 10-car Gulf Brook Parking Area and all its appurtenances in the old Elk Lake log landing. This will be constructed in conjunction with the construction of the Gulf Brook Mountain Bike Trail Network and include the development of the remaining open area for single-track and equestrian users.
Perform annual and as needed maintenance on the road system within the Boreas Ponds Tract.
Trails
Construct the first phase, of the Gulf Brook Mountain Bike Trail Network. Once complete, establish a photo monitoring program and monitor the trails annually.
If monitoring efforts associated with the phased approach determine the carrying capacity, through monitoring desired conditions of the Blue Ridge Mountain Bike Network, can withstand more use and there is a public interest in expanding the network, then the full buildout of approximately eight miles may be implemented.
If monitoring efforts associated with the phased approach determine the carrying capacity, through monitoring desired conditions of the Boreas Ponds and Wolf Pond Trails, can withstand additional use and there is a public interest in connecting the trails for a through trip opportunity, then the remaining portion of the Wolf Pond Trail needed to make the connection to the Boreas Ponds Trail will be constructed. Once complete, establish a photo monitoring program and monitor the trail annually.

A western approach to Boreas Mountain is proposed in the High Peaks Wilderness Area. This will be monitored for use before an eastern connection across the Elk Lake Conservation Easement from Branch Road will be built. If through this monitoring of desired conditions, it is found that the carrying capacity of the western trail is being reached or exceeded, then the eastern connection will be constructed in an effort to distribute the existing use over a broader area and relieve the pressure on the western Boreas Mountain Connection. If constructed, establish a photo monitoring program and monitor the trail annually.

Camping

If monitoring efforts associated with the phased approach determine the carrying capacity, through monitoring desired conditions of the Boreas River, Vanderwhacker Pond and Newcomb Lake to Harris Lake trails, can withstand more use and there is a public interest for camping opportunities then the first phase of proposed tent sites for these trails will be constructed on each trail. Once each site is complete, establish a photo monitoring program and monitor the sites annually.

Construct the 2 primitive tent sites on Sanford Lake. Once complete, establish a photo monitoring program and monitor the sites annually.

If monitoring efforts associated with the phased approach determine the carrying capacity, through monitoring desired conditions of the Branch Road and Branch River area, can withstand more use and there is a public interest in more tent sites then the additional 2 proposed tent sites will be constructed along Branch Road. Once complete, establish a photo monitoring program and monitor the sites annually.

Monitoring

As the facilities described above are constructed they will be monitored for their desired conditions. In utilizing the phased approach this step is paramount to evaluate the capacity of these facilities to withstand use and determine when or if the next phases of the amendment should be implemented.

The facilities described through this phasing will continually be monitored for visitor experience, use and changing condition. If the desired conditions of the facilities or the land where they are located are found not to be realized, then corrective measures such as site relocation or closures will be implemented.

III. Recreational Resources and Human Uses

PHASE 4
Education and Outreach
Continue education and outreach programs.
Access
Perform annual and as needed maintenance on the road system within the Boreas Ponds Tract.
Trails
If monitoring efforts associated with the phased approach determine the carrying capacity, through monitoring desired conditions of the Gulf Brook Mountain Bike Network, can withstand more use and there is a public interest for additional opportunities, then the second phase of network will be constructed. This additional trail construction will be approximately four-miles. Once complete, the photo monitoring program will be expanded to the new trail segments and they will be monitored annually.
If monitoring efforts associated with the phased approach determine the carrying capacity, through monitoring desired conditions of the Gulf Brook Mountain Bike Network, can withstand more use and there is a public interest in expanding the network, then the implementation of proposed trail construction of approximately eight miles may be implemented.
Camping
If monitoring efforts associated with the phased approach individually determine the carrying capacity, through monitoring desired conditions of the Boreas River, Boreas Ponds, Community Connector and Newcomb Lake to Harris Lake trails, can withstand more use and there is a public interest for more tent sites on any of these trails, then the additional proposed tent sites will be constructed.
If monitoring efforts associated with the phased approach determine the carrying capacity, through monitoring desired conditions of the Boreas River trail and one of its popular tent site locations, can withstand more use, and there is a public interest in a lean-to, then the proposed lean-to will be constructed at the most appropriate location that falls within the APSLMP guidelines.

Monitoring
After 5 years, the Wildland Monitoring Plan will be reviewed and the effectiveness of the monitored variables will be evaluated. If changes are needed, DEC will make appropriate adjustments to reflect the best methodologies available at the time.
The facilities described through the phasing of this entire UMP Amendment will be continually monitored for visitor experience, use and changing condition. If the desired conditions of the facilities or the land where they are located are found not to be realized, then corrective measures such as site relocation or closures will be implemented.

III. Recreational Resources and Human Uses

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Appendix A – Management and Policy Considerations

Article XIV of the New York State Constitution

The State land which is the subject of this Unit Management Plan Amendment is Forest Preserve lands protected by Article XIV, Section 1 of the New York State Constitution. This Constitutional provision, which became effective on January 1, 1895 provides in relevant part:

“The lands of the state, now owned or hereafter acquired, constituting the Forest Preserve as now fixed by law, shall be forever kept as wild forest lands. They shall not be leased, sold or exchanged, or be taken by any corporation, public or private, or shall the timber thereon be sold, removed or destroyed.”

Environmental Conservation Law

The body of law that established DEC and authorizes its programs is called the Environmental Conservation Law (ECL). DEC is responsible for administration and enforcement of the ECL, and Article 9 of the ECL authorizes, among other things, the management of the Adirondack and Catskill Forest Preserves and the recreational facilities contained thereon.

Adirondack Park State Land Master Plan

The Adirondack Park State Land APSLMP (APSLMP) was initially adopted in 1972 by the Adirondack Park Agency (Agency), with advice from and in consultation with the Department, pursuant to Executive Law §807, now re-codified as Executive Law §816. The APSLMP provides the overall general framework for the development and management of State lands in the Adirondack Park, including those State lands which are the subject of this UMP.

The APSLMP places State land within the Adirondack Park into the following classifications: Wilderness, Primitive, Canoe, Wild Forest, Intensive Use, Historic, State Administrative, Wild, Scenic and Recreational Rivers, and Travel Corridors, and sets

forth management guidelines for the lands falling within each major classification. The APSLMP classifies the lands which are the subject of this UMP Amendment as part of the Vanderwhacker Mountain Wild Forest.

The APSLMP sets forth Guidelines for such matters as: structures and improvements, ranger stations, the use of motor vehicles, motorized equipment and aircraft, roads, jeep trails and state truck trails, flora and fauna, recreation use and overuse, boundary structures and improvements and boundary markings.

Executive Law §816 requires the Department to develop, in consultation with the Agency, individual Unit Management Plans (UMPs) for each unit of land under the Department's jurisdiction which is classified in one of the nine classifications set forth in the APSLMP. The UMPs must conform to the guidelines and criteria set forth in the APSLMP. Thus, UMPs implement and apply the APSLMP's general guidelines for particular areas of land within the Adirondack Park.

Executive Law §816(1) provides in part that "(u)ntil amended, the master plan for management of state lands and the individual management plans shall guide the development and management of state lands in the Adirondack Park."

Wild Forest Guidelines for Management and Use

From the Adirondack Park State Land APSLMP:

Those areas classified as wild forest are generally less fragile, ecologically, than the wilderness and primitive areas. Because the resources of these areas can withstand more human impact, these areas should accommodate much of the future use of the Adirondack Forest Preserve. The scenic attributes and the variety of uses to which these areas lend themselves provide a challenge to the recreation planner. Within constitutional constraints, those types of outdoor recreation that afford enjoyment without destroying the wild forest character or natural resource quality should be encouraged. Many of these areas are under-utilized. For example, the crescent of wild forest areas from Lewis County south and east through Old Forge, southern Hamilton and northern Fulton Counties and north and east to the Lake George vicinity can and should afford extensive outdoor recreation readily accessible from the primary east-west transportation and population axis of New York State.

Wild Forest Basic Guideline #4: No Material Increase

The original guideline in the Adirondack Park State Land APSLMP reads:

Public use of motor vehicles will not be encouraged and there will not be any material increase in the mileage of roads and snowmobile trails open to motorized use by the public in wild forest areas that conformed to the master plan at the time of its original adoption in 1972.

In March of 2008, the Agency adopted a resolution which found that existing DEC policy, which places a limit on the total snowmobile trail mileage on all wild forest units in the Adirondack Park at 848.88 miles, is consistent with the Wild Forest Basic Guideline #4. The resolution also outlined the format in which snowmobile trail mileage should be presented in UMP's to ensure continued compliance with Basic Guideline #4.

This information is presented below, and only includes mileage within what is currently classified as the Vanderwhacker Mountain Wild Forest, on roads and trails under DEC's jurisdiction.

Vanderwhacker Mountain Wild Forest Snowmobile Trail Mileage

Base Snowmobile Trail Mileage (pre-2018 UMP amendment):	29.7 miles
Proposed Closure Mileage:	0 miles
Proposed New Trail Mileage:	15.1 miles
Total Proposed Trail Mileage (post-2018 UMP Amendment):	44.8 miles

Park-wide Snowmobile Trail Mileage

1972 Mileage	Estimated Existing Mileage in All Wild Forest Units	Proposed Net Gain/(Loss) of Mileage in VANDERWHACKER MOUNTAIN WILD FOREST	New Total Estimated Mileage in All Wild Forest Units	Total Allowable Wild Forest Mileage * *Mileage beyond which would be considered a "material increase"
740	788.81	15.1	803.91	848.88

APA/DEC Memorandum of Understanding

As agencies of the same New York State Executive Department, the Department and the Agency recognize it is imperative that the specific authorities and program responsibilities of each are administered as cooperative elements of a coordinated State government program for the Adirondack Park. The Department and the Agency each agree that their specific program responsibilities and activities are enhanced by the involvement and participation of the other, including coordinated policy development and implementation, as well as sharing of information, technical and other resources. Revised in 2010, the Memorandum of Understanding between the Adirondack Park Agency and the Department of Environmental Conservation Concerning the Implementation of the State Land APSLMP for the Adirondack Park (MOU) outlines the specific roles and procedures to be followed by each Agency in fulfilling this commitment. Specific topics covered by the MOU include General Coordination and Communication, Adirondack Park State Land APSLMP, State Land Classifications, Unit Management Plans, State Land Project Management, State Land Activity Compliance, and Interpretation of the Adirondack Park State Land APSLMP.

State Environmental Quality Review Act

The State Environmental Quality Review Act requires that all agencies determine whether the actions they undertake may have a significant impact on the environment. The intent of the legislation is to avoid or minimize adverse impact on the resource. The guidelines established in the APSLMP for developing unit management plans express these same concerns. Any development within the Vanderwhacker Mountain Wild Forest presented in the plan must take into consideration environmental factors to ensure that such development does not degrade that environment. The overall intent of this UMP Amendment is to identify mitigating measures to avoid or minimize significant adverse environmental impacts to the natural resources of the State within the unit. Any reconstruction or development within the confines of this unit will take environmental factors into account to ensure that such development does not degrade the resource.

SEQRA requires the consideration of environmental factors early in the planning stages of any proposed actions(s) that are undertaken, funded or approved by a local, regional or state agency. A Long Environmental Assessment Form (LEAF) is used to identify and analyze relevant areas of environmental concern based upon the management actions in the draft UMP amendment.

As required by SEQRA, during the planning process a range of alternatives were formulated to evaluate possible management approaches for dealing with certain issues or problem locations. Department staff considered the no-action and other reasonable alternatives whenever possible. Potential environmental impacts, resource protection, visitor safety, visitor use and enjoyment of natural resources, user conflicts, interests of local communities and groups, as well as short and long-term cost-effectiveness were important considerations in the selection of proposed actions. Efforts were made to justify reasons for the proposals throughout the body of the UMP Amendment so the public can clearly understand the issues and the rationale of the decision making.

Community Connector Trail

The generic potential impacts of snowmobile use and trail construction in the Adirondack Park were analyzed in the 2006 Snowmobile Plan for the Adirondack Park/Final Generic Environmental Impact Statement. As provided on page 51 of that document, “construction of new trails anywhere in the Forest Preserve will require approval in a UMP and be subject to SEQRA.”

The 2005 Vanderwhacker Mountain Wild Forest UMP/Final Environmental Impact Statement analyzed alternatives and the potential impacts of the Newcomb to Minerva Community Connector Trail. The 2015 Community Connector Trail Plan for the Towns of Newcomb, Minerva, and North Hudson served as a Supplemental Environmental Impact Statement to the 2005 UMP/FEIS, and built upon the 2005 UMP/FEIS by evaluating additional alternatives and identifying potential site-specific environmental impacts associated with the proposals outlined therein.

The Community Connector Trail proposed in this UMP amendment was selected from one of the alternatives analyzed in the Community Connector Trail Plan. As stated on page 3 of that document, any future UMP amendments (including this one) that are needed to finalize the route selection of the entire three-town Community Connector Trail system would rely on the SEQR analysis provided in the Community Connector Trail Plan.

State Historic Preservation Act

The State Historic Preservation Act (SHPA) of 1980 declares it to be the policy of the State to promote the protection, enhancement, use, reuse and conservation of historic resources. Similarly, the New York State Public Buildings Law Article 4-B declares it to be the policy of the State for State agencies to act as good stewards of historic

properties under their jurisdiction and to hold those properties in trust for future generations.

The National Historic Preservation Act of 1966 and SHPA established the National and State Registers of Historic Places, which are the official lists of buildings, structures, districts, objects, and sites significant in the history, architecture, archeology, engineering, and culture of New York and the nation. The Commissioner of the Office of Parks Recreation and Historic Preservation (OPRHP) makes the determination whether a property meets the criteria for listing found in 9 NYCRR §427.3. The same eligibility criteria are used for both the State and National Registers.

In consultation with the OPRHP, State agencies are required to consider potential impacts to historic properties listed or eligible for listing in the National and/or State Register for Historic Places early in the planning process and prior to undertaking, approving, permitting or funding of any project. State agencies must fully explore all feasible and prudent alternatives that avoid or mitigate adverse impacts to historic properties.

Wild, Scenic, and Recreational Rivers Act and Regulations

In 1972, the State Legislature passed the Wild, Scenic and Recreational Rivers System Act (Rivers Act) in order to protect and maintain certain designated rivers in their free-flowing condition and natural setting. Pursuant to section 666.6[f] of title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR), upon the designation of a river in this system and until final boundaries are established, the provisions of 6 NYCRR Part 666 are applicable within one-half mile of each bank of the river. None of the river segments in the Vanderwhacker Mountain Wild Forest are known to have a current use which is in conflict with either the Rivers Act or its implementing regulations. Section 666.7 provides that “management plans will be developed by Department of Environmental Conservation for designated river areas to recommend specific actions to protect and enhance all river corridor resources.” This UMP Amendment will also serve as the River Management Plan for those segments of designated rivers located within the Vanderwhacker Mountain Wild Forest planning area.

A wild river is “a river or section of river that is free of diversions and impoundments, inaccessible to the general public except by water, foot or horse trail, and with a river area primitive in nature and free of any man-made development except foot bridges.”

(APSLMP, page 49). The Hudson River near the confluence with the Boreas River, and the entire Opalescent River are classified as wild rivers.

A scenic river is “a river or section of river that is free of diversions or impoundments except for log dams, with limited road access and with a river area largely primitive and undeveloped, or that is partially or predominantly used for agriculture, forest management and other dispersed human activities that do not substantially interfere with public use and enjoyment of the river and its shore.” (APSLMP, page 49). The Hudson River from the vicinity of State Route 28N to its confluence with the Cedar River, the Hudson River from its confluence with the Boreas River to the County line near the Hamlet of North River, and the Boreas River from Lester Flow to its confluence with the Hudson River are classified as scenic rivers.

A recreational river is “a river or section of river that is readily accessible by road or railroad, that may have development in the river area and that may have undergone some diversion or impoundment in the past.” (APSLMP, page 49). The Hudson River from its confluence with the Opalescent River south to the vicinity of State Route 28N in Newcomb is classified as a recreational river.

Snowmobile Management Guidance

In 2009 the DEC drafted the Management Guidance: Snowmobile Trail Siting, Construction and Maintenance on Forest Preserve Lands in the Adirondack Park. The Management Guidance established a trail classification system, which is described as follows:

Class II (Community Connector Trails) - Snowmobile trails or trail segments that serve to connect communities and provide the main travel routes for snowmobiles within a unit are Community Connector Trails. These trails are located in the periphery of wild forest or other Forest Preserve areas. They are always located as close as possible to motorized travel corridors, given safety, terrain and environmental constraints, and only rarely are any segments of them located further than one mile away from the nearest of these corridors. They are not duplicated or paralleled by other snowmobile trails. Some can be short, linking communities to longer Class II trails that connect two or more other communities.

Class I (Secondary Snowmobile Trails) - All other snowmobile trails that are not Community Connector Trails are Secondary Snowmobile Trails. These trails are located in the periphery of wild forest and other Forest Preserve areas where snowmobile trails are designated. They may be spur trails—perhaps leading to

population areas and services such as repair shops, service stations, restaurants and lodging—, short loop trails or longer recreational trails. If directly connected to Class II trails, new and rerouted Class I trails are always located as close as possible to - and no farther than one mile from - motorized travel corridors, although some - with high recreational value - may be located beyond one mile and may approach a remote interior area.

Snowmobile Use on Roads – Designated snowmobile routes can exist on Forest Preserve roads, such as the Chain Lakes Road (South). DEC management of all such roads for motor vehicle use, including snowmobiles, is guided by the DEC “CP-38 Forest Preserve Roads” policy.

Invasive Species Management Guidance

In 2007 the Department and the Adirondack Park Agency developed Inter-Agency Guidelines for Implementing Best Management Practices for the Control of Terrestrial and Aquatic Invasive Species on Forest Preserve Lands in the Adirondack Park. These Guidelines describe the process through which any active invasive species management will take place on DEC administered lands in the Adirondack Park. The Guidelines provide Best Management Practices (BMPs) that describe what management practices are allowed and when they can be implemented, who is authorized to implement them, and which species can be targeted. Species or techniques that are not included in the guidance may be addressed by the Department on a case-by-case basis in consultation with the Agency. The Guidelines are a living document and are updated periodically.

Reference to the Guidelines are included in UMPs as they are drafted or revised. UMPs also include available inventory information on the distribution of invasive species on or in close proximity to the Unit.

The Guidelines also describe a process by which the Department may enter into partnership agreements with and facilitate individuals or groups to manage invasive species on DEC administered lands using the listed BMPs. Partnership agreements will be accompanied with a site-specific or Rapid Response Work Plan (Work Plan) for the invasive species management activity and include provisions for monitoring control efficacy and native plant recovery. As noted above, the site-specific or Rapid Response Work Plan will provide detail regarding the selected management options on a site-specific basis.

Mountain Bike Trail Guidance

The Management Guidance: Siting, Construction and Maintenance of Single-track Bike Trails on Forest Preserve Lands in the Adirondack Parks Management Guidance provides guidelines solely for the management of DEC single-track bicycle trails on wild forest lands. It is intended to help land managers consistently design, construct and maintain bike trails and bike trail networks that protect natural resources and wild forest character while also providing a valuable recreational opportunity.

Minimum Requirements Analysis (MRA)

The Minimum Requirements Analysis (MRA) is a structured process to evaluate multiple criteria as part of planning for trail bridges within areas classified as Wild Forest by the APSLMP. The MRA is similar to the Minimum Requirements Decision Guide (MRDG) used by managers on Federal public lands designated as Wilderness. This MRDG is a process for land managers to identify, analyze, and select management actions that are the minimum necessary for stewardship of Wilderness. Like the MRDG, the MRA is designed to assist Forest Preserve planners and managers in making appropriate decisions. The guiding principle—for both decision making models—is that only the minimum tools, regulation, or force necessary to achieve established objectives are justified.

The MRA enables an objective evaluation of criteria when possible. The selection of a bridge design, however, is also based on considerations that have a varying degree of measurability. A selection will be made only after careful consideration of each alternative by APA and DEC staff of both the quantifiable and non-quantifiable criteria.

Americans with Disabilities Act

The Americans with Disabilities Act of 1990 (accessible), along with the Architectural Barriers Act of 1968 (ABA) and the Rehabilitation Act of 1973; Title V, Section 504, have had a profound effect on the manner by which people with disabilities are afforded equality in their recreational pursuits. The accessible is a comprehensive law prohibiting discrimination against people with disabilities in employment practices, use of public transportation, use of telecommunication facilities and use of public accommodations. Title II of the accessible requires, in part, that reasonable modifications must be made to the services and programs of public entities, so that when those services and programs are viewed in their entirety, they are readily accessible to and usable by people with disabilities. This must be done unless such

Appendix A – Management and Policy Considerations

modification would result in a fundamental alteration in the nature of the service, program or activity or an undue financial or administrative burden.

Title II also requires that new facilities, and parts of facilities that are newly constructed for public use, are to be accessible to people with disabilities. In rare circumstances where accessibility is determined to be structurally impracticable due to terrain, the facility, or part of facility is to be accessible to the greatest extent possible and to people with various types of disabilities.

Consistent with accessible requirements, the DEC incorporates accessibility for people with disabilities into the planning, construction and alteration of recreational facilities and assets supporting them. This Unit Management Plan Amendment incorporates an inventory of all the recreational facilities or assets supporting the programs and services available on the unit, and an assessment of the programs, services and facilities on the unit to determine the level of accessibility provided. In conducting this assessment, DEC employs guidelines which ensure that programs are accessible, including buildings, facilities, and vehicles, in terms of architecture and design, transportation and communication to individuals with disabilities.

Any new facilities, assets and accessibility improvements to existing facilities or assets proposed in this Unit Management Plan Amendment are identified in the section containing proposed action steps.

The DEC is not required to make each of its existing facilities and assets accessible as long as the DEC programs, taken as a whole, are accessible.

For copies of any of the above mentioned laws or guidelines relating to accessibility, contact the DEC Universal Access Program Coordinator at 518-402-9428 or UniversalAccessProgram@dec.ny.gov.

Partnerships and Volunteers

Temporary Revocable Permits

The DEC issues Temporary Revocable Permits (TRP) in its sole discretion for the temporary use of State lands and conservation easement lands for activities that have negligible or no permanent impact on the environment. Historically, TRPs have been issued for lean-to construction, cross country races, forest insect research, wildlife research, town road maintenance and utility line right-of-way work among many other purposes. Through the TRP review process, DEC avoids conflicting uses of State land and situations that could threaten health, public safety, or integrity of natural resources.

TRP authorization does not provide exemption to any existing State laws and regulations. To hold any event, a sponsoring organization must request permission in writing at least 30 days in advance of the date of the proposed activity. The TRP applicant or sponsoring organization must provide proof of liability insurance. TRPs often have specific stipulations pertinent to the activity in question and TRPs are authorized by DEC policy.

Volunteer Stewardship Agreements

Many great things are accomplished on State lands through the volunteering of individuals and groups. There are instances where coordinating work through the DEC proves challenging due to logistics, staffing, or funding levels. In some of these instances, great work is able to be accomplished through the generosity of these volunteers.

The current DEC procedure that facilitates the use of volunteers to carry out work on State land is called a Volunteer Stewardship Agreement (VSA). When a work project seems to be a good fit for volunteers and there is an individual or group willing to take on this project, the relevant Department land manager will help the potential volunteers through the VSA process, which consists of an application and a final agreement. This process is necessary, as it lays out the details of the project to make sure that the final project is true to the intent of management of the area. The VSA also provides volunteers with liability and workers compensation insurance coverage while they are working on State land.

Student Conservation Association

DEC has an ongoing partnership with the Student Conservation Association (SCA) for trail crews and backcountry stewards. SCA trail crews provide labor to complete implementation of projects on State lands, including: trail construction, primitive tent site construction, bridge work, rehabilitation and maintenance of facilities, and much more. These crews allow DEC to accomplish a large amount of work. The backcountry stewards spend their time traversing the backcountry, protecting resources, monitoring usage, and providing public outreach. Both of these programs are indispensable in helping the DEC to accomplish its management objectives.

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Appendix B – Discussion of Alternatives

Parking – Boreas Ponds Tract

Background

DEC is proposing to provide public motor vehicle access to the Boreas Ponds on the lands classified as Vanderwhacker Mountain Wild Forest as follows. Each established parking lot will include at least one parking space that meets accessibility standards.

1. Blue Ridge Road Parking Area
 - Parking for 10 vehicles and 5 vehicles with Trailers just outside of the first gate at the Blue Ridge Road
2. Elk Lake Landing Parking Area
 - Parking for up to 10 vehicles 1.8 miles in from the Blue Ridge Road
3. Fly Pond Parking Area
 - Parking for 20 vehicles 3.2 miles in from the Blue Ridge Road
4. Four Corners Parking Area
 - Parking for 10-15 vehicles 6 miles in from the Blue Ridge Road
5. Boreas Dam Parking Area
 - PERMITTED parking for 6 vehicles (*see alternatives below*)
6. Parking along the Gulf Brook Road at primitive tent sites
7. Parking along the Boreas Road during fall hunting season

The preferred alternative (Alternative 1) is to allow public motor vehicle access to a 10-15 vehicle Parking Area at the Four Corners. The UMP Amendment will propose parking for 10 vehicles at the Four Corners Parking Area at the outset with the understanding that the Department may expand this parking area to accommodate up to 15 vehicles, based upon demand and resource impacts. A gate will be installed to limit public motor vehicle access beyond the Four Corners Parking Area.

A permit system will be used to allow public motor vehicle access beyond the Four Corners Parking Area to a six-car Boreas Dam Parking Area. Four of the six parking spots would be made available for persons of all ages and abilities and the other two will be designated for CP-3 permit holders only. All six parking spots will meet accessible standards.

Permit System

Permits for the four parking spots available for persons of all ages and abilities at the Boreas Dam Parking Area will be issued through the Reserve America System. Permits will be issued on a first come, first serve basis at no charge. Permittees will obtain a key to access the Boreas Ponds Parking Area at the Frontier Town Campground and Day Use Area Registration Ticket Booth during open hours, or at an alternative location. Permittees will need to have their check-out time clearly posted on their dashboard and visible through their windshield (as is done on the back of the campground paperwork for people who are camping). The Forest Ranger for the area will be able to receive information from the campground registration booth about who is registered to park at this location and vehicle information for them. The Ranger can then, when on patrol, know who should be parked in the lot and for how long. To ensure the return of the key by the appropriate check out time there will likely need to be an incentive to ensure the timely return of the key and allow access for the next individual.

All CP-3 permit holders will receive the combination to the gate beyond the Four Corners Parking Area for access to the two CP-3 parking spots at the Boreas Dam Parking Area. These CP-3 spaces cannot be reserved, but are first come- first serve like all other CP-3 opportunities offered throughout the Park. If CP-3 permit holders want a guaranteed parking space, they can reserve one of the other four permitted spaces through the Reserve America System.

Length of stay

Parking at the Boreas Dam Parking Area will be limited to single day use in order to increase the opportunity the public can access the parking area. Users seeking longer stays will need to park at the Four Corners or Fly Pond Parking Areas.

Alternatives

Alternative 1 – Preferred Alternative - Public motor vehicle access to a 10-15 vehicle parking area at the Four Corners where there would be a gate regulating motor vehicle access to Boreas Dam. 10-15 vehicles can park at the Four Corners and a permit system will be in place to allow limited motor vehicle access beyond the Four Corners to a six-car Boreas Dam Parking Area. Four of the six parking spots would be for universal access and the other two would be reserved for CP-3 permit holders. The users permit will need to be displayed on the dash of the user's vehicle. Parking here will be limited to single day use in order to increase the opportunity the public can access the parking area.

Alternative 2 - Use the same permit system described in Alternative 1, but the gate would be placed at the existing Fly Pond Parking Area 3.2 miles in from Blue Ridge Road. The Four Corners Parking Area will provide parking for 10-15 vehicles, one of which will be reserved for CP-3 permit holders. Under this system up to 14 keys could be handed out initially; ten for the Four Corners Parking Areas and four for the Boreas Dam Parking Area. Each permit would be for a specific parking spot and permits will need to be displayed on the dash of each car. Permitted parking will be limited to single day use in order to increase the opportunity the public can access the parking area.

Alternative 3 - Place a gate at the existing Fly Pond Parking Area 3.2 miles in from Blue Ridge Road and issue up to six permits for parking at the Boreas Dam Parking Area. This would allow general public motor vehicle access in to Fly Pond, but limit public motor vehicle access beyond that point to a maximum of six cars per day. Permitted parking will be limited to single day use in order to increase the opportunity the public can access the parking area.

Alternative 4 - Construct both the Four Corners and Boreas Ponds parking areas, and allow unrestricted access to these parking areas. The Four Corners Parking Area will be a 10-15 vehicle lot and the Boreas Ponds Parking Area will be a six-vehicle lot. There would not be a permit system with this alternative which means that a regulation prohibiting parking along the road shoulder is necessary to minimize congestion and encroachment as much as possible.

Alternative 5 – Maintain status quo/take no action alternative. This alternative relies on the existing parking scheme outlined in the Interim Access Plan, where the public can drive motor vehicles to the Fly Pond Parking Area, 3.2 miles from the Blue Ridge Road. Overflow parking is located at the Blue Ridge Parking Area.

Parking – MacIntyre East Tract

Alternatives

Maintain Status Quo/Take No Action

Currently access to the MacIntyre Tract is limited to roadside access along Tahawus Road from which users can either bushwhack to the Hudson River or hike along East River Road approximately 0.6 miles to the Forest Preserve boundary. Hiking the privately owned northern leg of East River Road is not an option at this time. The Department holds a Conservation Easement here but there is not an approved Recreation Management Plan (RMP) outlining public access. Herd paths to the Hudson

River have already started to occur, which could lead to sustainability and erosion problems in the future. This option allows limited access and poses a safety concern with parking along the shoulder of a busy road.

Alternative 1 – Preferred Alternative- Construct roadside parking facilities and hand-carry launches along Tahawus Road

This alternative is in favor of creating roadside parking facilities at strategic locations. There are informal parking areas on East River Road near the Hudson River Bridge and on Tahawus Road near the southern end of Sanford Lake, both of which have informal herd paths to the Hudson River. These parking areas would be developed to support recreational use. Hand-carry launches and access trails from the parking areas would also be developed in place of the existing herd paths. Purpose built facilities would increase the ease of access and the sustainability of the sites, thereby reducing erosion. Approximately one mile south of East River Road another parking area and hand-carry launch will be developed to provide sustainable access to the river and create an opportunity to paddle through from one of the other proposed launches. A two-car parking area and campsite will be developed approximately ½ mile north of the Sanford Lake Hand-carry Parking Area. This will likely be used as an overnight staging site for late arriving High Peak users. East River Road will be used as an administrative road by the Department. Public access to the east of the Hudson River will end at the private land boundary. If in the future an RMP for the existing conservation easement allows for public access to the north along East River Road, then this UMP Amendment is supportive of that.

Alternative 2- Roadside parking facilities and hand-carry launches along Tahawus Road and motor vehicle access along East River Road.

This alternative proposes the same access as Alternative 1, but with public motor vehicle access through the private lands gate and along East River Road. The east-west section of East River Road is largely within a flood plain with flashy water levels. The public safety concerns here combined with a lack of public access to the north on the existing conservation easement make this an unfavorable alternative.

Community Connector Trail

In the 2015 Community Connector Trail Plan for the Towns of Newcomb, Minerva, and North Hudson, the Department selected a preferred route for multiple-use trails that would connect the three communities. Near the Boreas Ponds Tract, however, which was not owned by the State at that time, four different routes were considered but a

preferred alternative was not selected. Now that the land has been acquired by the State and a wild forest classification allows for the placement of a snowmobile route within the Boreas Ponds Tract, the Department has selected a preferred alternative.

Alternatives

The following alternative routes were discussed in the Community Connector Trail Plan for the Towns of Newcomb, Minerva, and North Hudson (*note: the Boreas Road was erroneously identified as part of the Gulf Brook Road in the 2015 plan, and the distinction between the two roads has been clarified here*):

Alternative A

Roosevelt Truck Trail to Blue Ridge Road (1.8 miles on roads, 2.1 miles of new trail in Forest Preserve, 0.6 miles on existing snowmobile trail)

The Roosevelt Truck Trail is an old road that has been maintained to a 12-foot width to provide access to DEC programs for persons with mobility impairments. Instead of going all the way to Blue Ridge Road in this location, a new trail will be constructed on the south side of the Blue Ridge Road in the vicinity of “unnamed hill.” This trail will require numerous small stream crossings and possible wetland permitting, but will hold snow longer, is vegetated predominately by mature northern hardwoods (which are easier to work around than younger evergreen trees), is less than a mile from an existing motor vehicle road, and will eliminate two major stream crossings on the shoulder of Blue Ridge Road. The proposed trail will connect with the Cheney Pond-Irishtown Trail and then continue north along the Cheney Pond Road. The Cheney Pond-Irishtown Trail and Cheney Pond Road are currently designated as snowmobile trails. Before reaching the Blue Ridge Road, the route will follow a new proposed trail heading east across State land to a point where the Blue Ridge Road intersects private land.

A GIS model indicates potential deer yard habitat along this trail segment. As the 2005 Vanderwhacker Mountain Wild Forest UMP suggests, this is a very large potential deer yarding area. Additionally, the proposed trail intersects the edge of the deer yard model, and as such, trail use may not greatly impact deer yarding habitat. The vast majority of the trail is located in Northern Hardwoods, which is not desirable yarding habitat.

Blue Ridge Road/Forest Preserve/Private Land (2.2 miles on county highway, 1.4 miles of new trail on Forest Preserve, 1.7 miles on private land)

Appendix B – Discussion of Alternatives

Once along the Blue Ridge Road and across Wolf Creek, the trail will head northeasterly onto Vanderwhacker Mountain Wild Forest, staying north of the private lands along Blue Ridge Road. The trail will then proceed in an easterly direction, continuing onto the Boreas Ponds Tract, and connecting with old woods roads, then heading southeast until reaching the Blue Ridge Road. The route then parallels Blue Ridge Road for another 0.6 miles until reaching the end of Section 3.

Alternative B – Preferred Alternative

Roosevelt Truck Trail to Blue Ridge Road (2.3 miles on road)

This alternative proceeds north, generally along the Roosevelt Truck Trail to a suitable crossing at the Blue Ridge Road. A final crossing location will be decided in consultation with the APA, Essex County Highway Department and New York State Department of Transportation.

Blue Ridge Road to Boreas Ponds Tract Boundary (1.8 miles of new trail on Forest Preserve)

The grade and terrain on the north side of the Blue Ridge Road in this area are suitable for the construction of a proposed new trail. This segment would avoid using the shoulder of the Blue Ridge Road.

Boreas Ponds Tract Boundary to Boreas Road (2.1 miles of new trail on Forest Preserve)

There are existing skid trails on the former Finch-Pruyn lands within the Boreas Ponds Tract that could provide a suitable trail from the property boundary northeast of Vanderwhacker Pond to the Boreas Road. Where these skid trails cannot be sustainably maintained, new trails would be constructed to connect the sustainable sections.

Boreas and Gulf Brook Roads (8.9 miles on road on future Forest Preserve)

The Boreas and Gulf Brook Roads are existing motor vehicle roads within the Boreas Ponds Tract. Currently owned by the Nature Conservancy, this tract is slated for acquisition by the state sometime in the next few years. If this part of the tract is classified Wild Forest, the Boreas and Gulf Brook Roads could become a snowmobile route and be maintained exclusively for winter recreational uses during the colder months (i.e. not plowed). The design and unpaved surface of the roads also mean that motor vehicles will travel slowly during the warmer months, making the route suitable for other recreational uses as well.

Alternative C

Roosevelt Truck Trail to Blue Ridge Road (2.0 miles on roads, 1.1 miles of new trail in VMWF, 0.6 miles on existing snowmobile trail)

The majority of this segment will be identical to the first segment in Alternative A. Where the route leaves the Cheney Pond Road in Alternative A to head east across State land, this alternative will follow a route near the northern terminus of the Cheney Pond Road to be constructed from the Cheney Pond Road to a suitable crossing at the Blue Ridge Road. A final crossing location will be decided in consultation with APA, Essex County Highway Department and New York State Department of Transportation.

Blue Ridge Road to Boreas Ponds Tract (2.2 miles of new trail on VMWF)

Similar to Alternative B but beginning further to the east on Blue Ridge Road. There are existing skid trails on the former Finch-Pruyn lands within the Boreas Ponds Tract that could provide a suitable trail from the property boundary northeast of Vanderwhacker Pond to the Gulf Brook Road. Where these skid trails cannot be sustainably maintained, new trails would be constructed to connect the sustainable sections.

Forest Preserve Boundary to Boreas Road

Same as Alternative B

Boreas and Gulf Brook Roads

Same as Alternative B

Alternative D

Roosevelt Truck Trail to Blue Ridge Road

Same as Alternative A

Blue Ridge Road/Forest Preserve/Private Land (4.8 miles on road)

This option proposes to build a trail corridor generally following the Blue Ridge Road using the Vanderwhacker Mountain Wild Forest, the shoulder of the Blue Ridge Road, along with private lands if appropriate agreements can be made with landowners. This segment will continue until reaching the Blue Ridge Road Conservation Easement where it is located on the south side of Blue Ridge Road. The trail will either have to proceed across two private properties that are subject to trail agreements, or proceed along the side of Blue Ridge Road during these stretches, and possibly others in order to avoid wet areas and terrain constraints. It also may not be entirely safe to mix the

multiple user groups along a county highway for proposed extended distances. While this option is not desirable from a public safety, user experience, and private land restriction standpoint, the wilderness restrictions to the south make this the most viable choice at the current time.

Boreas Cabin

Ten alternative actions are under consideration for the disposition of the Boreas Cabin, and are outlined below.

Alternatives

Maintenance Alternative

Preserve the building without providing interpretation. Implementation of this alternative will ensure the preservation of the building and its historical significance, and may serve to keep financial costs down through the absence of interpretive, monitoring and enforcement costs associated with increased visitation. The financial cost of implementing this alternative has not yet been determined.

Maintenance and Interpretation Alternative A – *Preferred Alternative*

Preserve the building and provide limited interpretation. This might include installation of interpretive signage/panels describing the history of the building and who used it and the nearby lands, as well as its historical context. This would be achieved through a limited number of outdoor panels without providing public access to the building's interior. The cost of implementing this alternative would include the cost of the Maintenance Alternative, plus the cost of developing, installing, and maintaining outdoor interpretive signage.

Maintenance and Interpretation Alternative B

Preserve the building, open it to the public, and provide indoor interpretation as a historical museum for logging camp tradition, hunting camp tradition and log/river driving exhibits. The obvious disadvantage to this alternative is the financial cost - not only of maintenance, but of interpretation, monitoring, and enforcement, which could be prohibitive, especially if a volunteer organization is not willing to “adopt” the project and establish some appropriate, inventive, consequential and lasting use.

Maintenance and Administrative Use Alternative – *Preferred Alternative*

Preserve the building and use for administrative purposes. The use of this building as a caretaker or Backcountry Steward outpost has obvious advantages for a management

presence in the area and also to help facilitate potential search and rescue efforts in the area. The ongoing administrative use will also be a valuable tool to secure the necessary funding to modify and maintain the building for such use. As long as the structures exterior is maintained in such a way that preserves its historic nature it may still be eligible for listing on the State Register of Historic Places. This will also allow for the interior to be modified to adequately support such use.

All maintenance alternatives will require that the building be maintained in a manner that does not disturb the existing wild forest character of the state land. For any of the maintenance alternatives to be implemented, a full engineering inspection must be performed to determine necessary repairs and approximate financial costs.

Hut-To-Hut Alternative

Incorporate the building into a hut-to-hut/snowmobile/bike/equestrian touring system. Within this use category is an array of possible sub-options involving the use of the building in various ways and to varying degrees for any of the above purposes. This would enhance the overall tourism economy, but would have budgetary impacts from staffing and maintenance. This option also has numerous legal issues, including housing the public on the Forest Preserve.

Demolition Alternative

Demolish the building and dispose of the materials in an appropriate manner. This alternative demands a one-time financial cost for destruction and disposal, but no future monetary costs. Although unlikely, the building could be surplused, potentially reducing the financial cost to the State of implementing this alternative. Any disposition involving demolition would be an adverse impact under the State Historic Preservation Act.

Demolition and Interpretation Alternative

Use the building site as a natural/cultural history outdoor exhibit, after the building is demolished. This would eliminate any budgetary obstacles from ongoing maintenance of the building and still provide for interpretation.

Relocation Alternative

Disassemble the building and re-build it at another, non-Forest Preserve location. A local government would move the building from state land and use it for tourism information and/or interpretation. In this way, the building would be preserved and used in a worthwhile way. The Frontier Town Campground proposal may provide an opportunity for the Town of North Hudson to move the building to a site adjacent to the Frontier Town Area and use it for tourism information or education.

A disadvantage to this alternative is that relocation will likely make the building ineligible for listing on the State Register of Historic Places.

No Action (Abandonment) Alternative

This strategy will lead to the eventual collapse and loss of the building. In this state, it may become an attractive nuisance, due to its proximity to Boreas Road and the associated public access; making this an irresponsible alternative. Furthermore, this alternative would be considered an adverse impact under 9 NYCRR 428.7(a)(4), which reads, in part, “[i]n determining whether an undertaking will have an adverse impact on eligible or registered property, the commissioner [of OPRHP] shall consider whether the undertaking is likely to cause... neglect of the property resulting in its deterioration or destruction.”

Summary

The financial costs associated with the above alternatives have not yet been determined, but the No Action alternative can be ruled out immediately, nonetheless. The No Action alternative is irresponsible, because the time may soon come when even low level maintenance will not be enough to keep the building intact, and it would become an attractive nuisance. Eventually, it will require rehabilitative work, and a decision regarding its future should be made sooner rather than later. This would also be considered an adverse impact under 9 NYCRR 428.7(a)(4).

The Demolition Alternative is acceptable, but since the building has been found to have historical significance, the Department has a heightened responsibility to preserve it and will have to consult with OPRHP to determine mitigation, which might include detailed documentation prior to demolition.

The Maintenance Alternative is also acceptable, but the monetary cost of extensive maintenance may be high. Maintenance and Interpretation Alternative A is considered slightly preferable to the Maintenance Alternative, because limited outdoor interpretation could potentially add little cost to the overall financial cost of maintenance, yet this alternative could perform an important role not only in preserving, but in interpreting a State historic resource. The financial costs of interpretation associated with Maintenance and Interpretation Alternative B are too great. Providing indoor interpretation will be too great a financial drain for a site of this scale and location. The Maintenance and Administrative Use Alternative allows the site to play a key role in the management and potential emergency services of the area, while preserving the historic nature of the site. The Hut-To-Hut Alternative would have budgetary impacts from staffing and maintenance. This option also has numerous legal issues for the use of buildings on Forest Preserve. The Relocation Alternative is acceptable and may prove

to be less costly to the state in the long run, if there is an interest by a local organization or government. However, the financial cost of relocation by a local organization or government may be prohibitive. Furthermore, relocation will automatically render the buildings ineligible for listing on the state register.

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Appendix C – Pond Narratives

Vanderwhacker WF additions

Upper Hudson Watershed:

Fly Pond (UH561A)

Though listed in our database as a 12-acre pond, Fly Pond now looks to be a wetland with very little open water based on aerial photos. It is located approximately one mile northeast of Wolf Pond and borders Andrew Brook. We have no fish or water chemistry data for this waterbody.

This water will be managed to preserve its aquatic community for its intrinsic value.

Management Class: Unknown

Sanford Lake (UH710)

Sanford Lake is an approximately 120-acre waterbody that is a natural wide spot in the Hudson River. The long and narrow lake is accessed from the Tahawus Road that runs alongside. The most recent fisheries survey in 2000 captured white sucker, pumpkinseed and largemouth bass. That survey used larger-mesh netting to target and collect bigger fish. A more comprehensive sampling, and the only other data of record, was conducted in 1932 and documented the following fish species: brook trout, northern pike, golden shiner, common shiner, blacknose dace, creek chub, white sucker, brown bullhead, rock bass, pumpkinseed, smallmouth bass and yellow perch. Acidity levels from the 1932 survey were good with a pH of 6.2. The lake appears to be a warmwater fishery with limited management options given that it is part of a river system.

Sanford Lake is not currently stocked and will continue to be managed as a warmwater fishery. The lake should be surveyed in the future to assess fish species composition to update our database. Ice fishing is allowed on this water.

Management Class: Warmwater

Unnamed Water (UH457A)

Officially unnamed, this small pond (about 2 acres) is known locally as Bernie Pond. It is located next to The Branch, one-half mile west of the Elk Lake Road. No fish data are available for this waterbody, though water chemistry samples were collected in 1998. The pond was found to be 17 feet deep with excellent pH (7.4) and acid neutralizing capacity (144 µeq/l) values. Although water temperatures were suitable for brook trout, dissolved oxygen levels were marginal.

A fisheries survey should be completed in the future to determine species assemblage and reassess water chemistry conditions.

Management Class: Unknown

Unnamed Water (UH710A)

Pond #710A in the Upper Hudson drainage is located just east of the Opalescent River. It is a seven-acre waterbody that appears to be shallow and heavily vegetated based on aerial photos. We have no fish or water chemistry data for this pond.

This water will be managed to preserve its aquatic community for its intrinsic value.

Management Class: Unknown

Appendix D – OPRHP Consultation



New York State Office of Parks, Recreation and Historic Preservation

Division for Historic Preservation

Peebles Island, PO Box 189, Waterford, New York 12188-0189

518-237-8643

www.nysparks.com

Andrew M. Cuomo
Governor

Rose Harvey
Commissioner

17 October 2016

Mr. Charles E. Vandrei
Agency Historic Preservation Officer, Division of Lands and Forests
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-4255

Re: Boreas Ponds Log Cabin
Town of North Hudson, Essex County
Determination of National Register of Historic Places eligibility

Dear Mr. Vandrei,

Thank you for requesting the comments of the Division for Historic Preservation of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the provided documents in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the Division for Historic Preservation and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

It is the opinion of the Division for Historic Preservation that the Boreas Ponds Cabin, located in the Town of North Hudson, Essex County, satisfies the criteria for listing on the State and National Registers of Historic Places; our office's determination of eligibility is attached as part of this correspondence. If you have any further questions, please feel free to contact me at (518) 268-2167.

Sincerely,

William E. Krattinger
Historic Preservation Program Analyst
e-mail: william.krattinger@parks.ny.gov

enc: Determination of Eligibility

via e-mail only

Eligibility Determination/New York State and National Registers of Historic Places

Boreas Ponds Log Cabin, North Hudson, Essex County, New York

William Krattinger

12 October 2016

Statement of Significance

The Boreas Ponds Log Cabin, located in the Adirondack Mountain region at the southern end of Boreas Ponds in the Town of North Hudson, Essex County, is eligible for listing on the New York State and National Registers of Historic Places (S/NRHP). Constructed ca. 1891-92 as determined by dendrochronological analysis, the building represents a rare and relatively late example of traditional log-wall construction, a method of construction much employed in developing and frontier areas of New York State in the eighteenth and nineteenth centuries for domestic and utilitarian purposes. The building in question appears to have been constructed sometime immediately after the purchase of the surrounding forested land by the Finch, Pruyn and Company, which occurred in November 1891; these lands were acquired by the company from G.R. Finch. Between 1892 and 1899, this area was harvested for its softwood saw logs; among the species harvested was spruce, the material which was used to construct the log walls of the cabin. It is presumed that this building was erected in association with this timbering operation; by 1900 images show that the present site included several other buildings and barns, which were used by hunting and fishing parties into the early 1930s. A second phase of lumbering of the surrounding forest was undertaken from 1937 to 1949, at which time softwood pulpwood was harvested.

The building satisfies S/NRHP Criteria C, in the area of Architecture, as an intact and representative example of log wall construction utilizing traditional techniques, particularly as expressed in the half-dovetail corner joinery of the walls. The original log membrane survives and by all indications without alteration, punctuated by door and window apertures. It remains a late example of this traditional and straightforward construction system, characterized in this instance by notched corner joinery and chinking which created a weathertight horizontal joint between the logs. The roof frame is of more recent age and is not original to the first-phase of construction; the date of its introduction is not presently known. At the time it was built the cabin presumably functioned in one of three capacities—as a bunkhouse, kitchen, or mess hall—or perhaps some combination of the three. Given the dendrochronological results of the logs used to build its walls, and more specifically the date they were felled, it may be presumed that the cabin was erected in some measure to sustain the workforce that was engaged with the harvesting operations initiated by Finch, Pruyn and Company in 1892.

Additional significance is likely warranted in association with the building's historic use, under S/NRHP Criterion A, in association with the history of the logging industry in the Adirondacks, given the building's presumed direct association with this aspect of the region's history; however, more primary source documentation and context will be necessary to establish that case definitively.

Appendix E – Trail Classifications

<u>Trail Type</u>	<u>Marking</u>	<u>Tread and Tread Width</u>	<u>Trail Corridor</u>	<u>Bridges/ Ladders</u>	<u>Design and Maintenance</u>
Class I Unmarked Route	None	Intermittently apparent, relatively undisturbed, organic soil horizon	Intermittently apparent No side cutting	None.	Natural obstructions will be present, large logs left and water courses crossed without aid.
Class II Path	Intermittent	Intermittently apparent, compaction of duff, mineral soils occasionally exposed	Visible w/ some obstructions Minimal side cutting, blowdown removal only to define route	None.	Same as Class I trails, if social trails develop provide routing and marking to minimize impacts.
Class III Primitive Trail	Trail markers, signs at junctions with other trails	Apparent, soil compaction, minor natural material hardening, 14" – 18" wide	3' wide, 10' high Blowdown removal 2-3 years, side cutting to define trail	Bridges to protect resource, 2'-3' wide. Ladders only to protect exceptionally steep sections if reroute not possible.	Purpose built trails routed and built to shed water. Existing trails drainage installed to halt erosion. Heavily eroded sections of trails considered for reroute vs hardening in place. Minimize bog bridging through reroutes or turnpiking.
Class IV Secondary Trail	Trail markers, signs at junctions with other trails, basic information signs	Likely worn and possibly eroded. Rocks exposed and little to no duff. Natural material trail hardening. 18" – 24" wide	4' wide, 12' high Annual blowdown removal, side cutting to define trail	Greater allowance for bridges to protect resources, 2'-4' wide. Ladders on exceptionally steep rock faces if reroute not possible.	Purpose built trails routed and built to shed water and hardened to be sustainable. Existing trails drainage installed to halt erosion. Heavily eroded sections of trails considered for reroute vs hardening in place. Minimize bog bridging through reroutes or turnpiking.

Appendix E – Trail Classifications

<u>Trail Type</u>	<u>Marking</u>	<u>Tread and Tread Width</u>	<u>Trail Corridor</u>	<u>Bridges/ Ladders</u>	<u>Design and Maintenance</u>
Class V Trunk Trail	Trail Markers, signs at junctions, more information and warnings	Wider tread, worn and very evident. Rock exposed, possibly eroded. Extensive natural material trail hardening allowed, non-native materials as a last resort. 18" – 26" wide	6' wide, 12' high Annual blowdown removal and side cutting allowed	Bridges for difficult high water crossings 2'-6' wide, priority given to streams below concentrations of designated camping. Ladders only if reroute not possible.	Purpose built trails routed and built to shed water and hardened to be sustainable. Existing trails, drainage installed to halt erosion. Heavily eroded sections of trails considered for reroute vs hardening in place. Minimize bog bridging through reroutes or turnpiking.
Class VI Front Country	Heavily Marked, Detailed Interpretive Signage	Groomed, some paving, bark chips or other accessible materials. 24" – 48" wide	6' wide, 12' high Blowdown removal and side cutting allowed	Bridges 3'-8', made to ADA Standards.	Purpose built trails using appropriate techniques. To be implemented within 500' of wilderness boundary.
Class VII Horse Trail	Marked as Trunk trail or Secondary Trail	Wide tread development, must be rather smooth. Use of natural and non-native materials 24" – 48" wide	8' wide, 12' high Same as Trunk trail	Bridges 6'-10' wide with kick rails, nonnative dimensional materials preferred.	Same as Trunk Trail on larger scale and use equestrian techniques. Use of horse drawn implements allowed.
Class VIII Ski Trail	Marked High for Snow Pack, Special Markers, Signs at Junctions, Usage Signs at Junctions of Hiking Trails	Duff remains, discourage summer use.	6' wide, slight wider, depending on grade and curves, 12' high Clearing trail corridor determines tread width	Bridges 4'-8' wide with snow rails.	Purpose built trails routed to avoid double fall lines and favor skier experience over destination distance. Removal of woody obstacles and low profile features.

Appendix F – Response to Public Comment