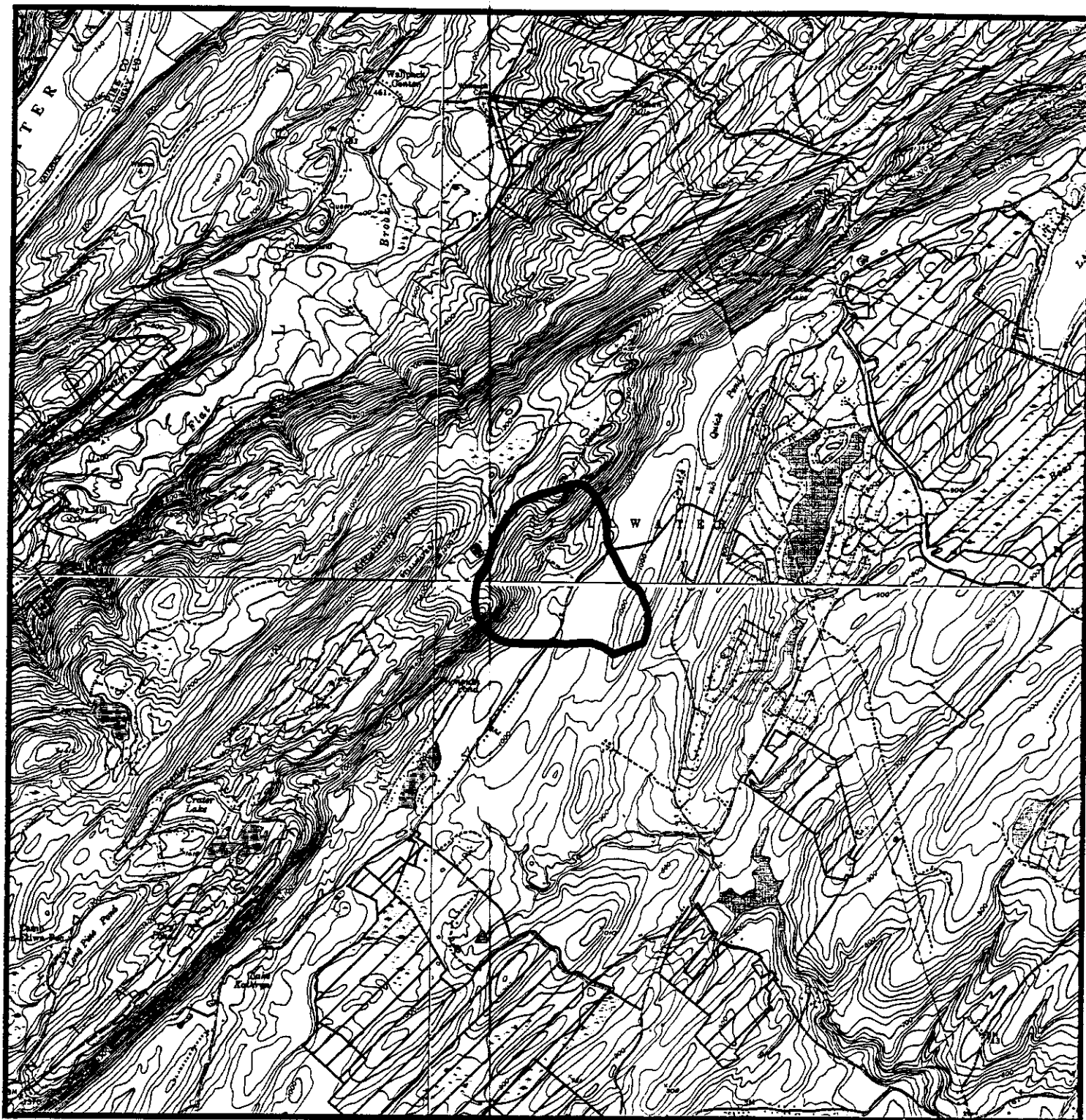




Natural Heritage Priority Site
Arctic Meadows
Sussex County



NJ Department of Environmental Protection
Division of Parks and Forestry
Natural Lands Management



Natural Heritage Priority Site Arctic Meadows

Locational Information

Quad Name: Culvers Gap ; Newton West
County: Sussex
Municipality Stillwater Twp

Description of Site

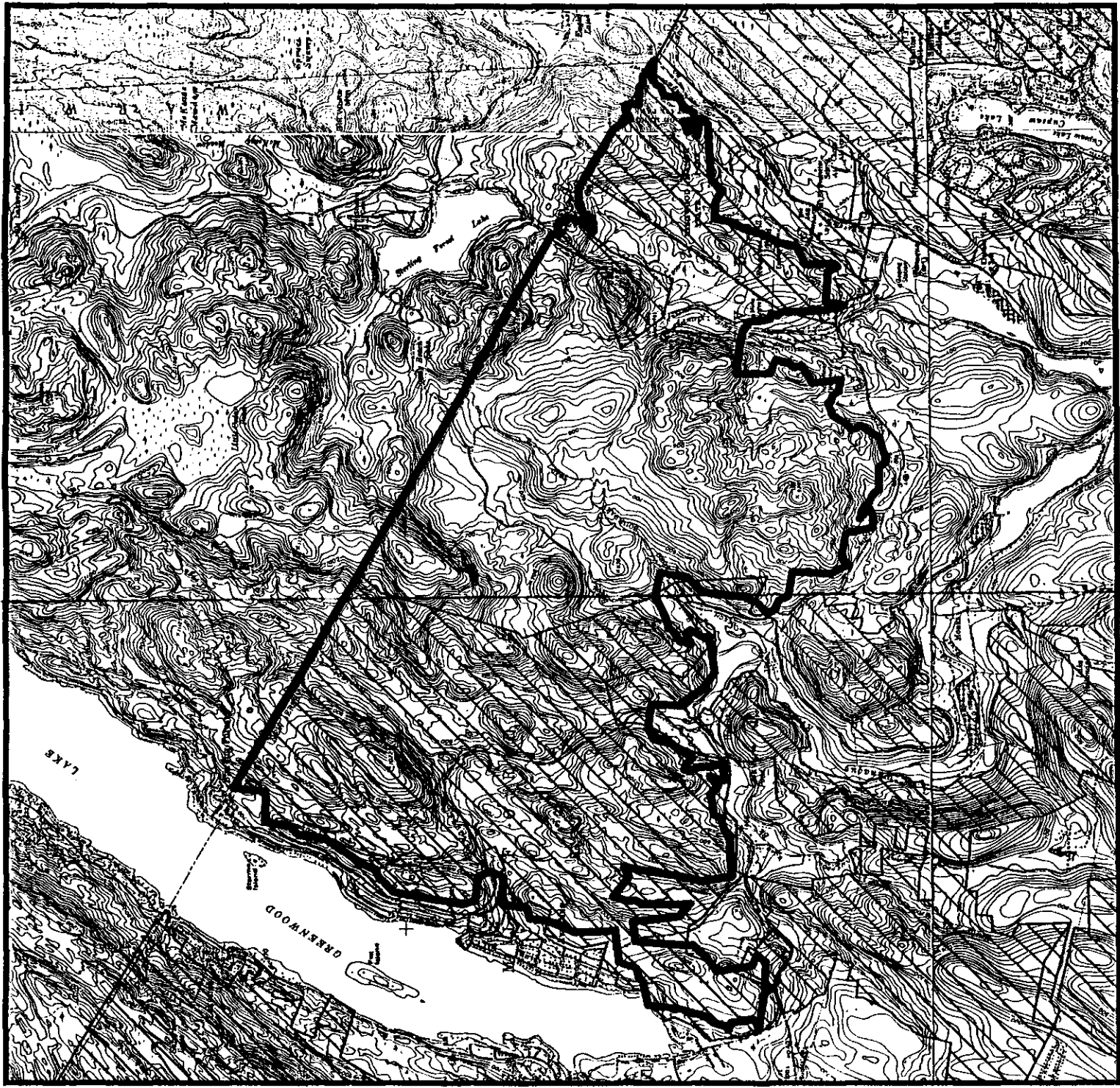
Cool waters for this inland acidic seep emanate from the National Park Service property uphill to the northwest merge in a diffuse pattern on this and nearby properties. A hemlock-deciduous forest occurs around the graminoid/herb community.

Boundary Justification

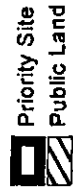
Primary boundary corresponds to seepage area as mapped by Tom Breden from aerial photo. Secondary boundary follows ridgetop on upland edge and allows 350 ft. buffer on lowlands.

Biodiversity Rank **[BI]**

Contains the only known example of a globally imperiled State Endangered plant species and a good example of a state imperiled wetland natural community.



Natural Heritage Priority Site
Beech Road Ridge
Passaic County



Natural Heritage Priority Site
Beech Road Ridge

Locational Information

Quad Name: Greenwood Lake ; Sloatsburg
County: Passaic
Municipality West Milford Twp ; Ringwood Boro

Description of Site

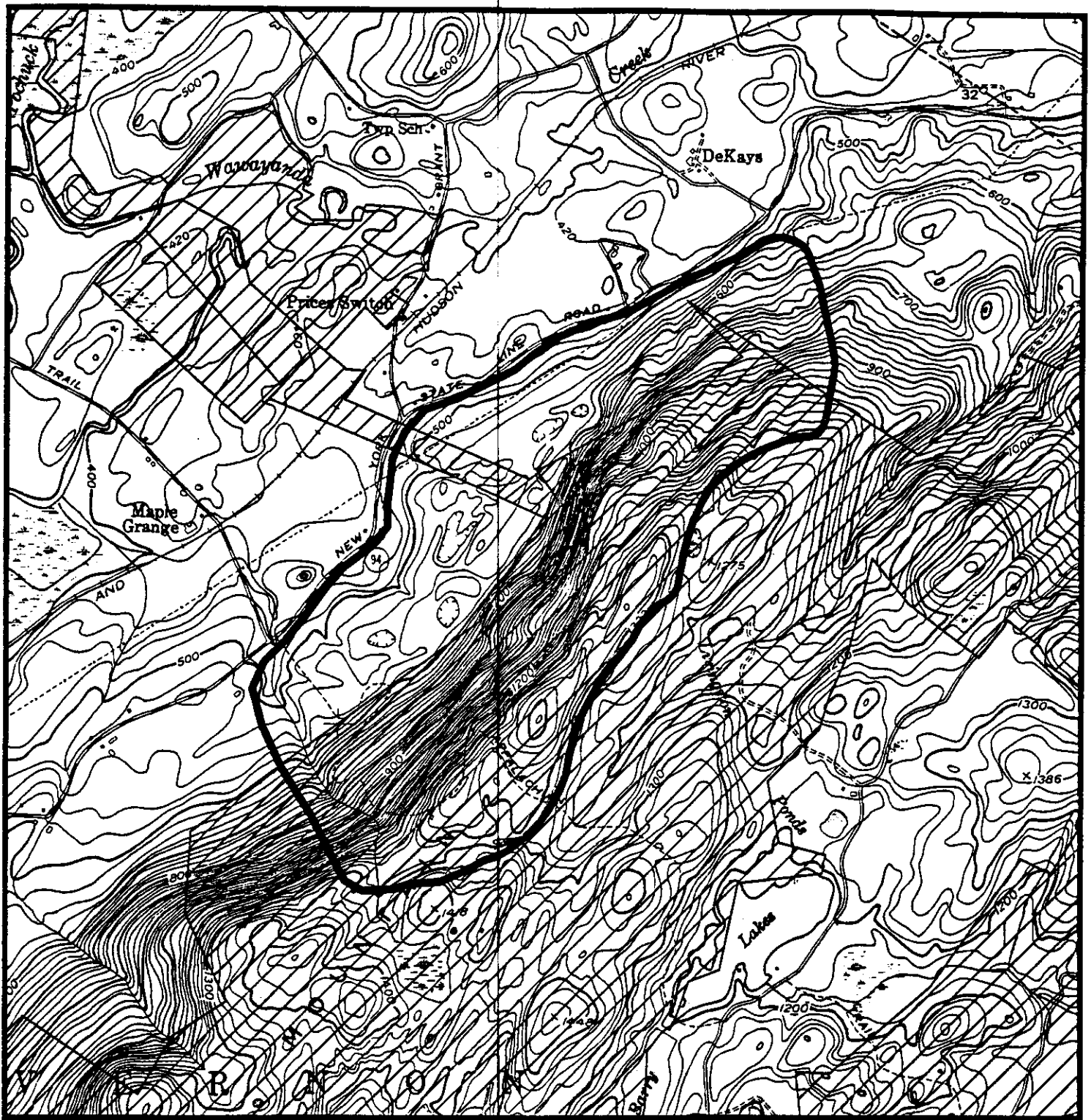
Large contiguous and sparsely developed hardwood forest in the Highlands geological province.

Boundary Justification

Primary boundary includes extensive contiguous forested habitat for State-listed Endangered and Threatened Animal Species as identified through the Landscape Project mapping. Secondary boundary follows the outer edge of the forested habitat.

Biodiversity Rank **B5**

Contains populations of State-listed Endangered and Threatened Animal Species.



Natural Heritage Priority Site
Breakneck Mountain
 Sussex County



NJ Department of Environmental Protection
 Division of Parks and Forestry

Natural Lands Management

0.3 0 0.3 Miles



 Priority Site
 Public Land



Natural Heritage Priority Site
Breakneck Mountain

Locational Information

Quad Name: Wawayanda
County: Sussex
Municipality: Vernon Twp

Description of Site

Sheer cliffs and talus slope of mountain.

Boundary Justification

Includes extent of habitat for rare plant and animal species.

Biodiversity Rank

B4

Four state listed endangered plants and one state listed endangered animal.

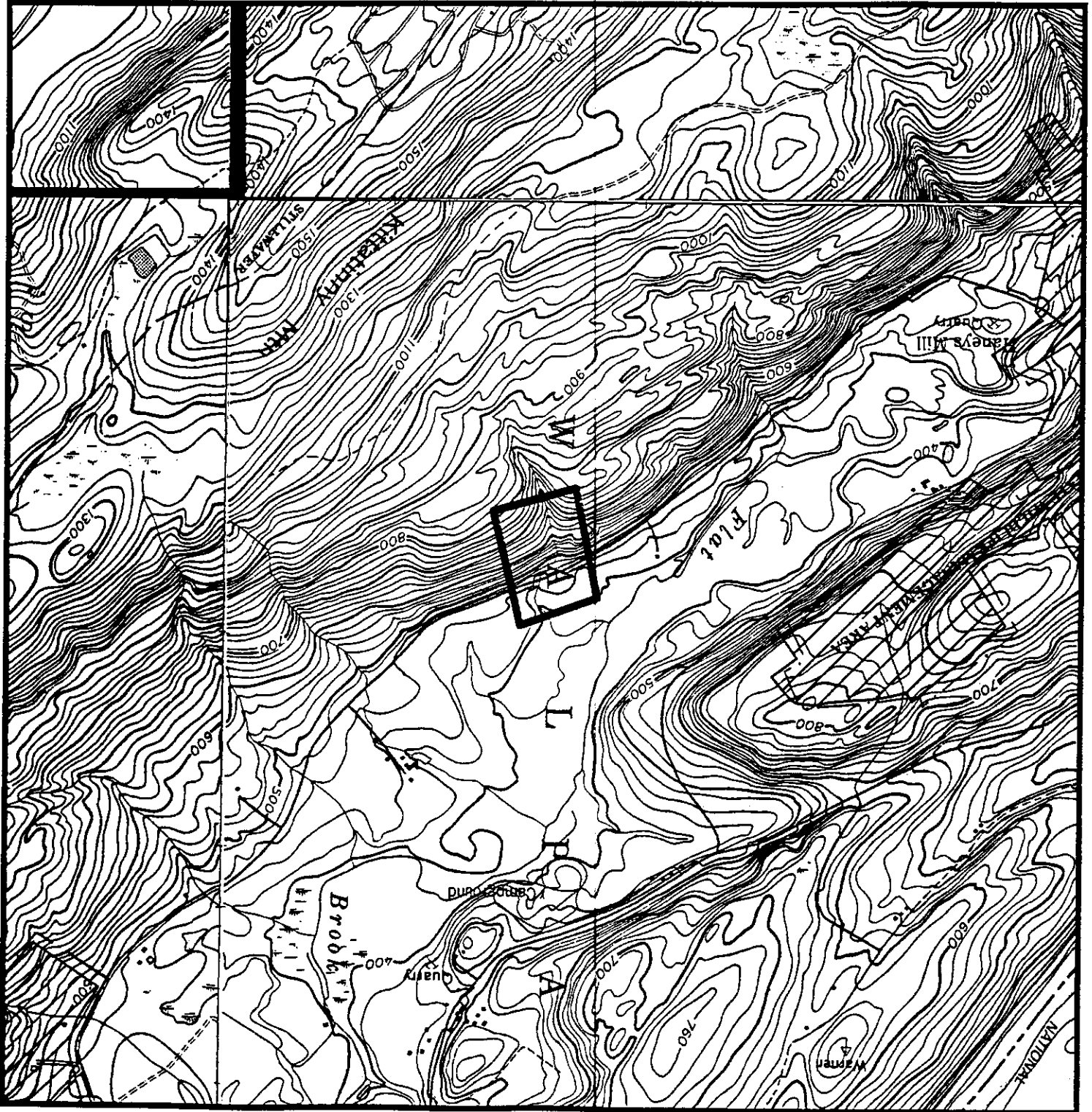


0.2 Miles 0 0.2 Miles

Public Land
Priority Site



Natural Heritage Priority Site Buttermilk Falls Sussex County



Natural Heritage Priority Site
Buttermilk Falls

Locational Information

Quad Name: Lake Maskenozha
County: Sussex
Municipality Walpack Twp

Description of Site

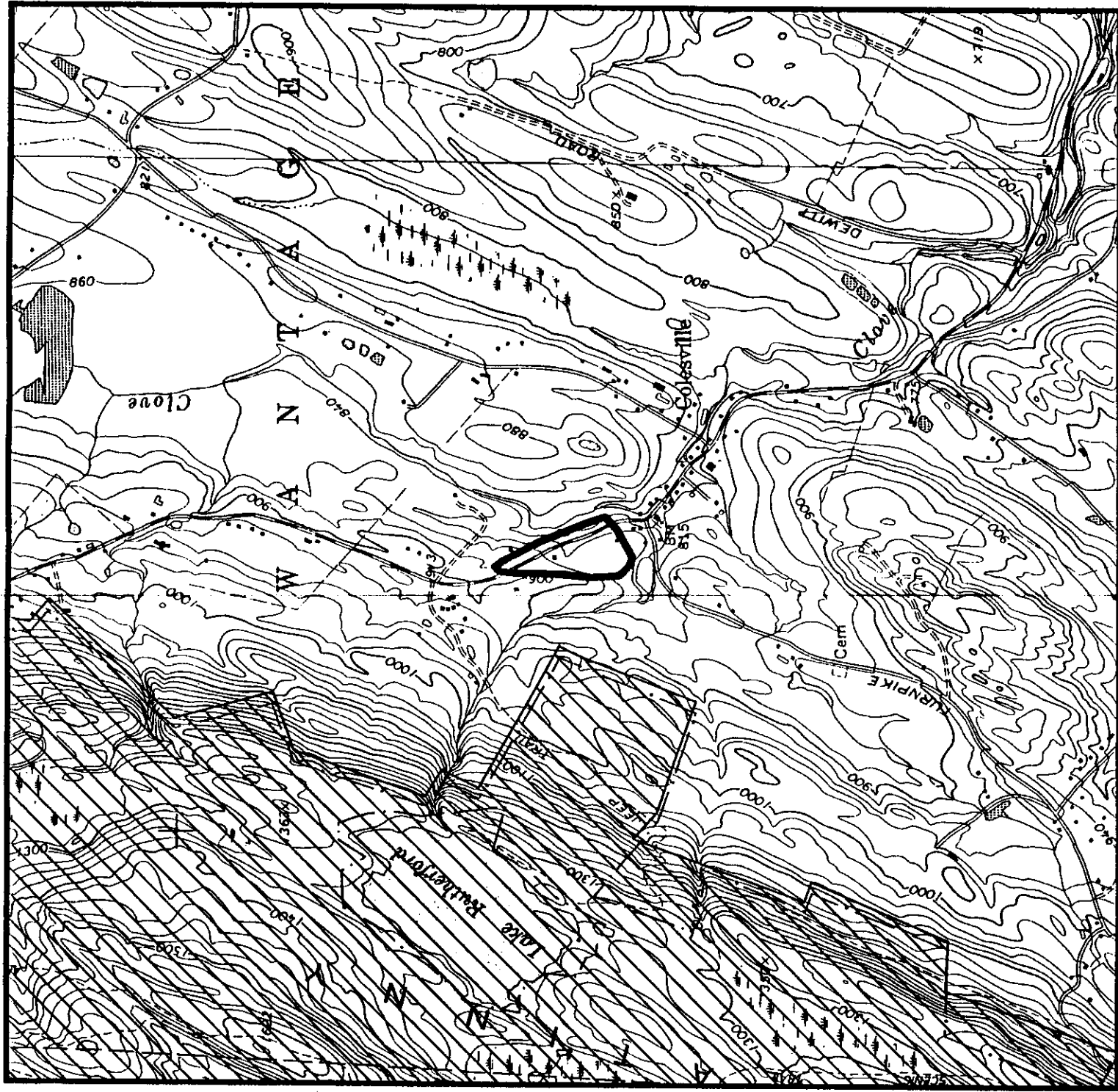
Large waterfalls in hemlock ravine.

Boundary Justification

Includes extent of wetland habitat for rare plant species.

Biodiversity Rank **B4**

One state listed endangered plant.



Natural Heritage Priority Site
Colesville
 Sussex County



NJ Department of Environmental Protection
 Division of Parks and Forestry

Natural Lands Management



Natural Heritage Priority Site Colesville

Locational Information

Quad Name: Port Jervis South
County: Sussex
Municipality: Wantage Twp

Description of Site

Wooded swamp and roadside bank.

Boundary Justification

Includes extent of habitat for rare plant.

Biodiversity Rank

B4

One state listed endangered plant.



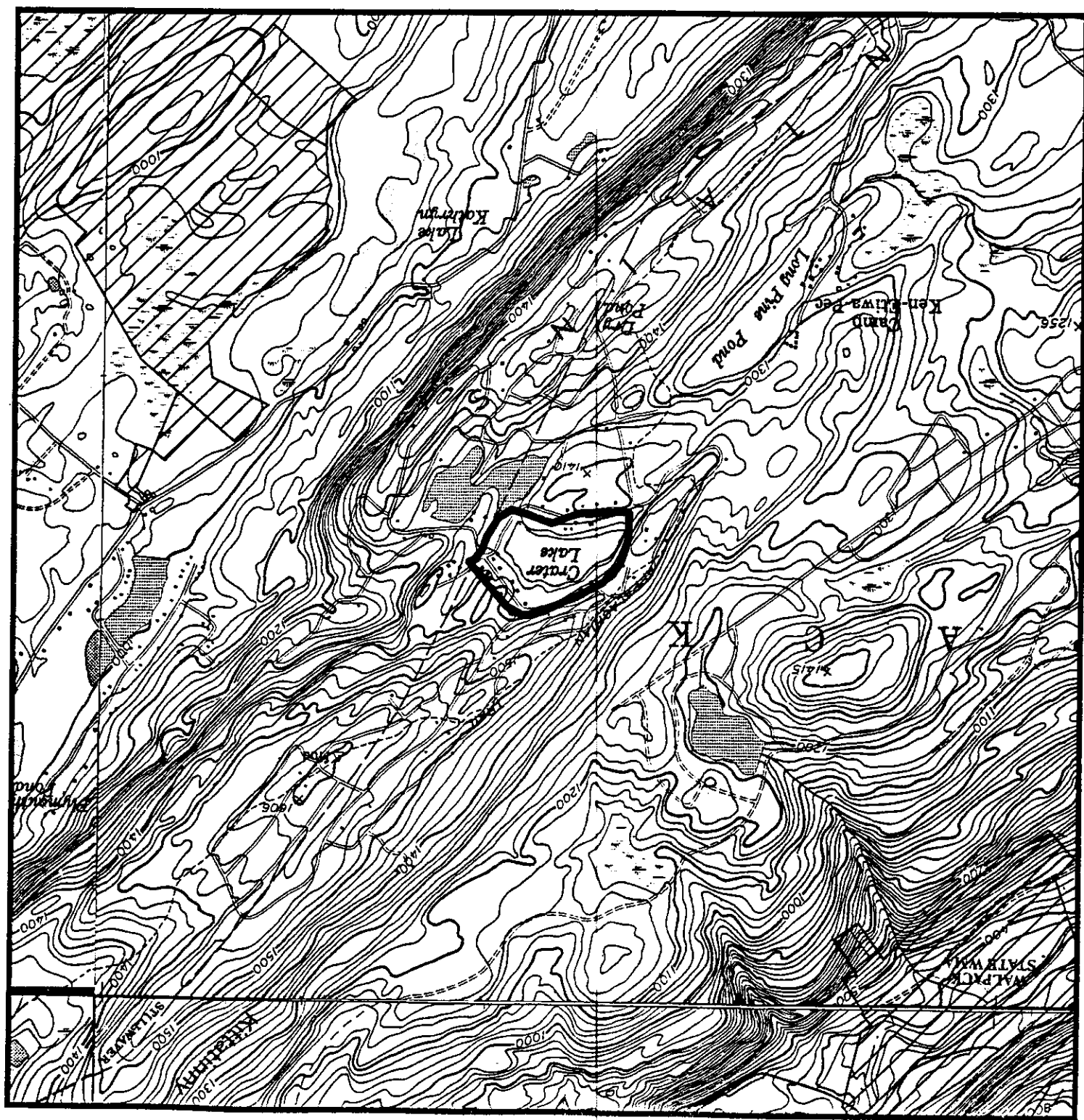
Public Land
Priority Site



Natural Heritage Priority Site

Crater Lake

Sussex County



Natural Heritage Priority Site Crater Lake

Locational Information

Quad Name: Flatbrookville
County: Sussex
Municipality Walpack Twp

Description of Site

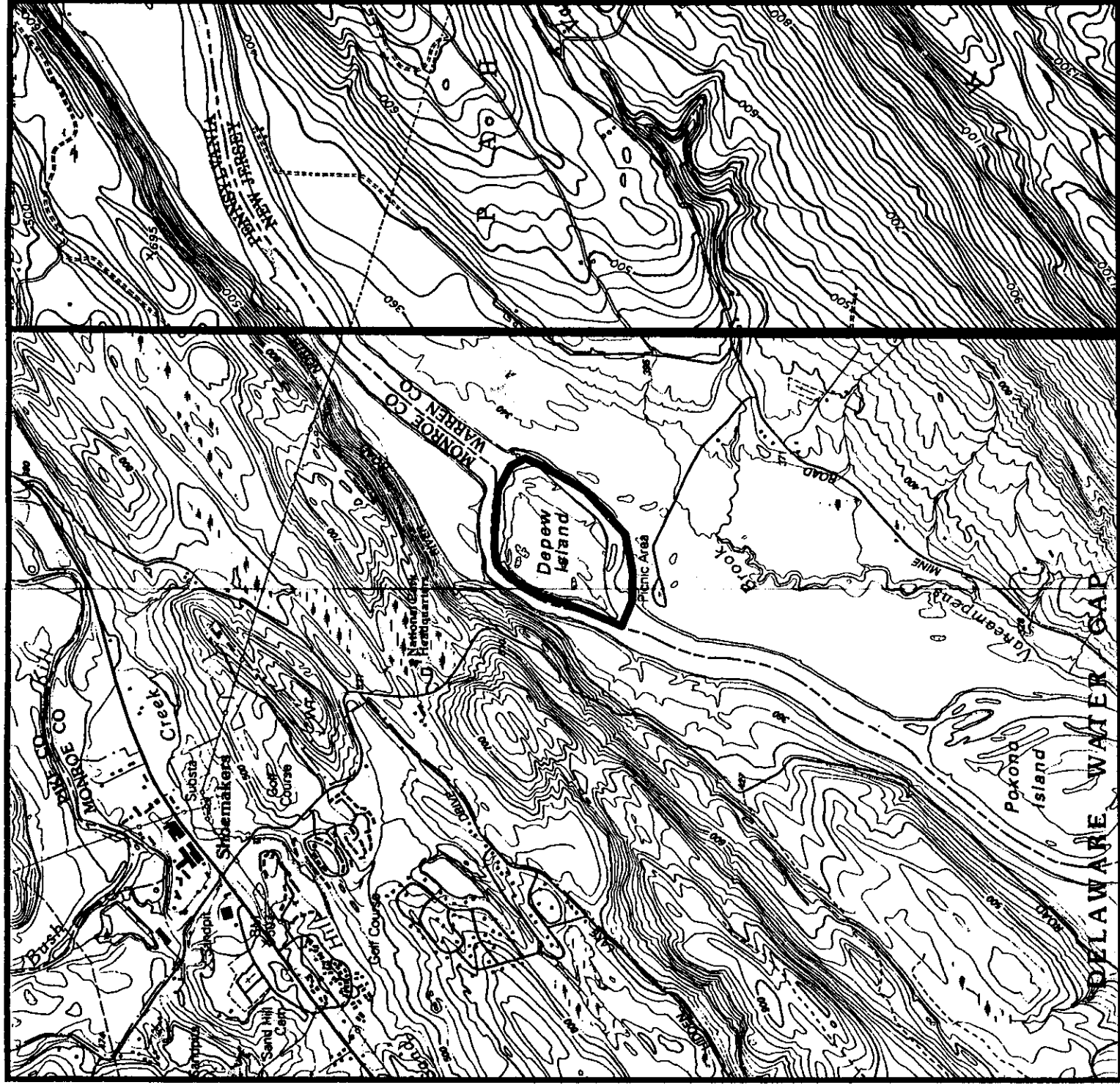
High elevation lake.

Boundary Justification

Extent of lake habitat and associated wetlands plus upland buffers.

Biodiversity Rank **B5**

One extant special concern plant species plus historically documented plant species.



Natural Heritage Priority Site

Depew Island

Warren County

Natural Heritage Priority Site

Depew Island

Locational Information

Quad Name: Bushkill
County: Warren
Municipality: Hardwick Twp

Description of Site

Floodplain island in Delaware River and gravelly shore of mainland opposite the island.

Boundary Justification

Extent of habitat for rare animal and plant species.

Biodiversity Rank

B3

One globally imperiled animal species and one special concern plant species.

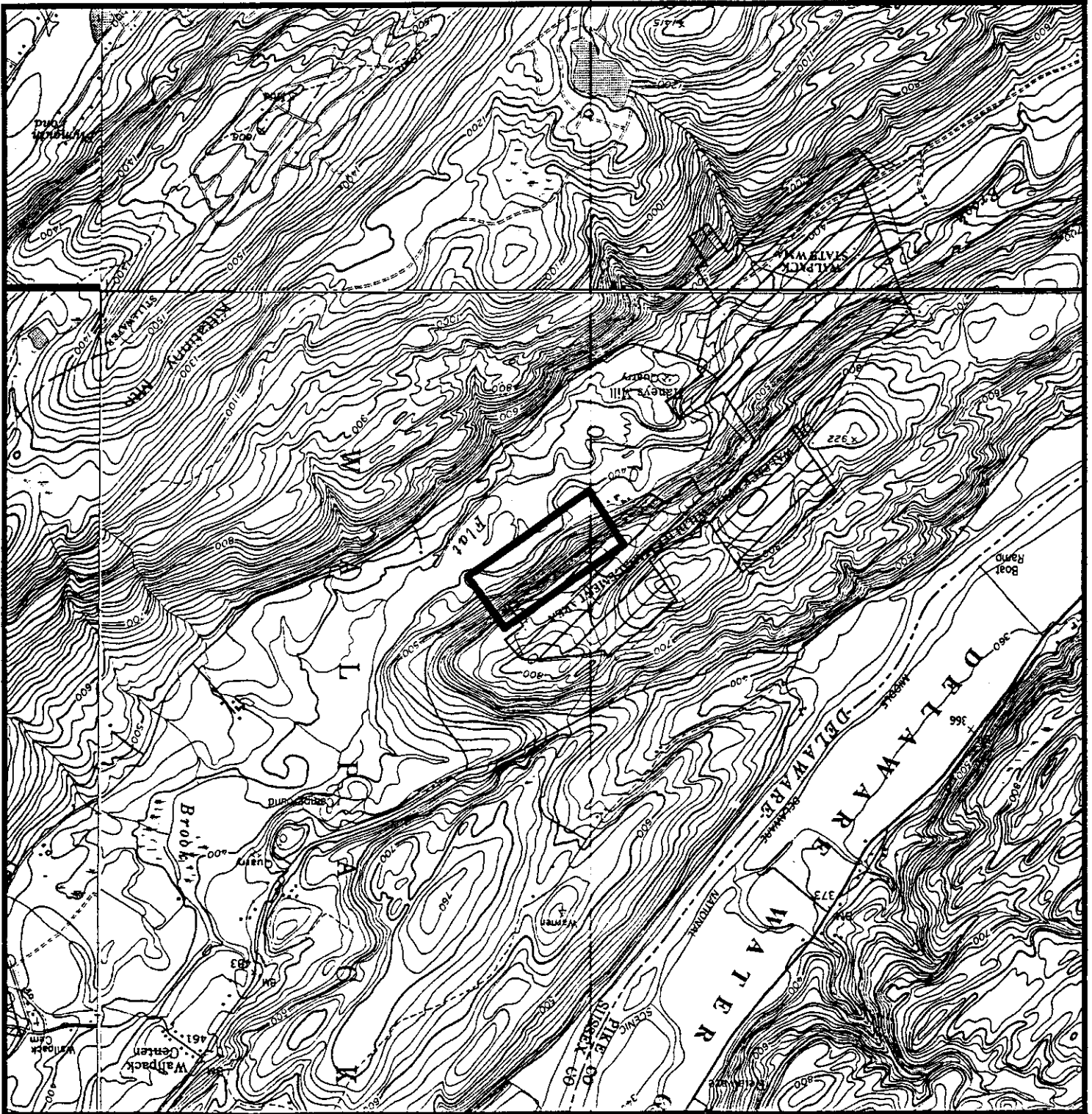


0.3 Miles
0
0.3 Miles

Public Land
Priority Site



Natural Heritage Priority Site Flatbrook Valley Roadbank Site Sussex County



Natural Heritage Priority Site
Flatbrook Valley Roadbank Site

Locational Information

Quad Name: Lake Maskenozha
County: Sussex
Municipality Walpack Twp

Description of Site

Open fields and thickets on slope along roadside.

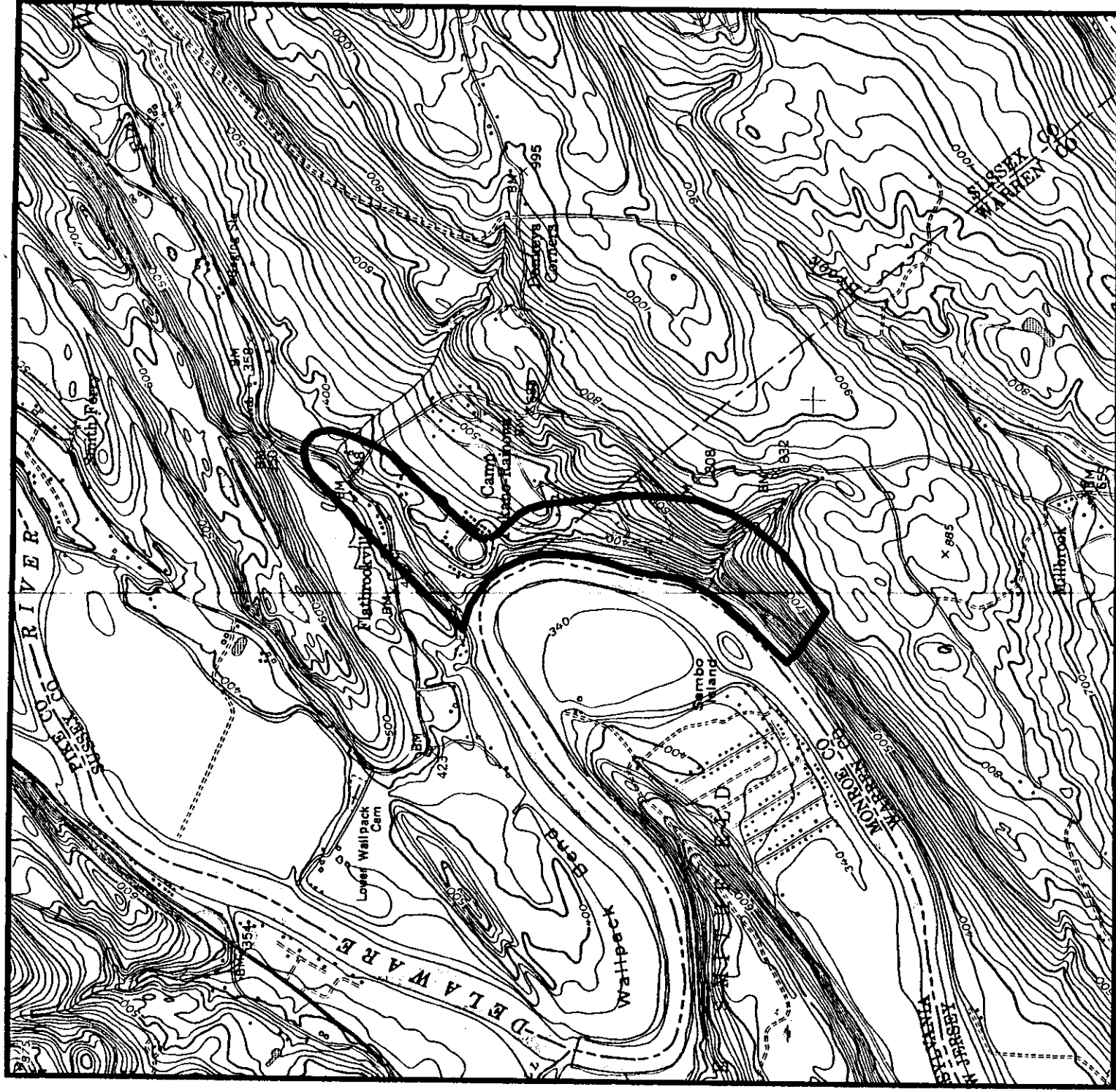
Boundary Justification

Includes extent of habitat for state listed endangered plant species.

Biodiversity Rank

B4

One State-listed Endangered Plant Species and a Plant Species of Special Concern.



Natural Heritage Priority Site Flatbrookville Rivershore Sussex and Warren Counties



NJ Department of Environmental Protection
Division of Parks and Forestry

Natural Lands Management



0.3 0 0.3 Miles



Priority Site
Public Land

Natural Heritage Priority Site
Flatbrookville Rivershore

Locational Information

Quad Name: Flatbrookville
County: Sussex ; Warren
Municipality Walpack Twp ; Hardwick Twp

Description of Site

Rock ledges and seepage areas along the Delaware River.

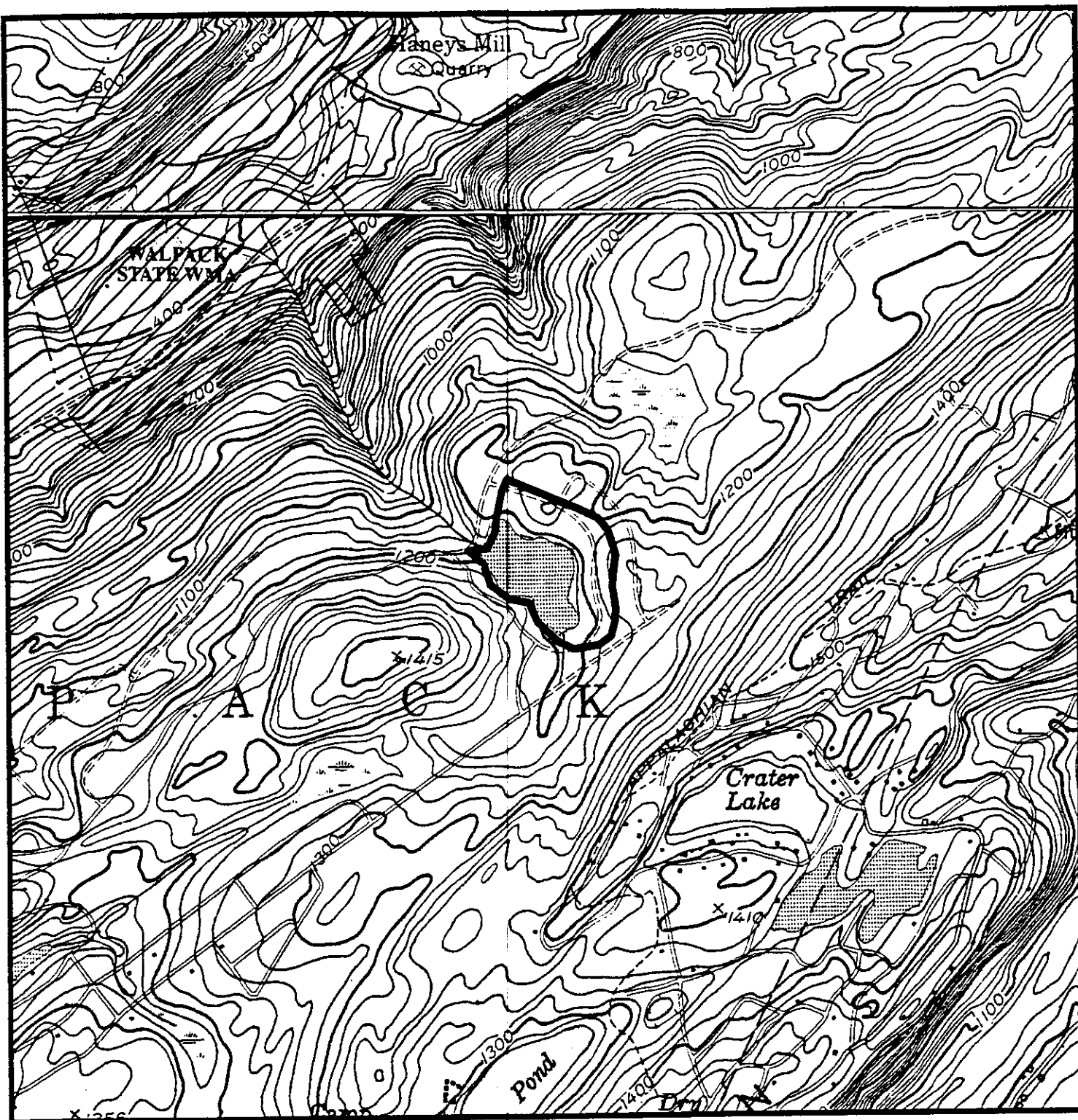
Boundary Justification

Includes extent of wetland rare plant habitat plus adjacent upland buffer.

Biodiversity Rank

B4

Concentration of state listed endangered plants, plant communities and special concern plants.



Natural Heritage Priority Site
Hemlock Pond
 Sussex County



NJ Department of Environmental Protection
 Division of Parks and Forestry
Natural Lands Management

0.2 0 0.2 Miles

 Priority Site
 Public Land



Natural Heritage Priority Site
Hemlock Pond

Locational Information

Quad Name: Flatbrookville
County: Sussex
Municipality Walpack Twp

Description of Site

High elevation pond and woodlands.

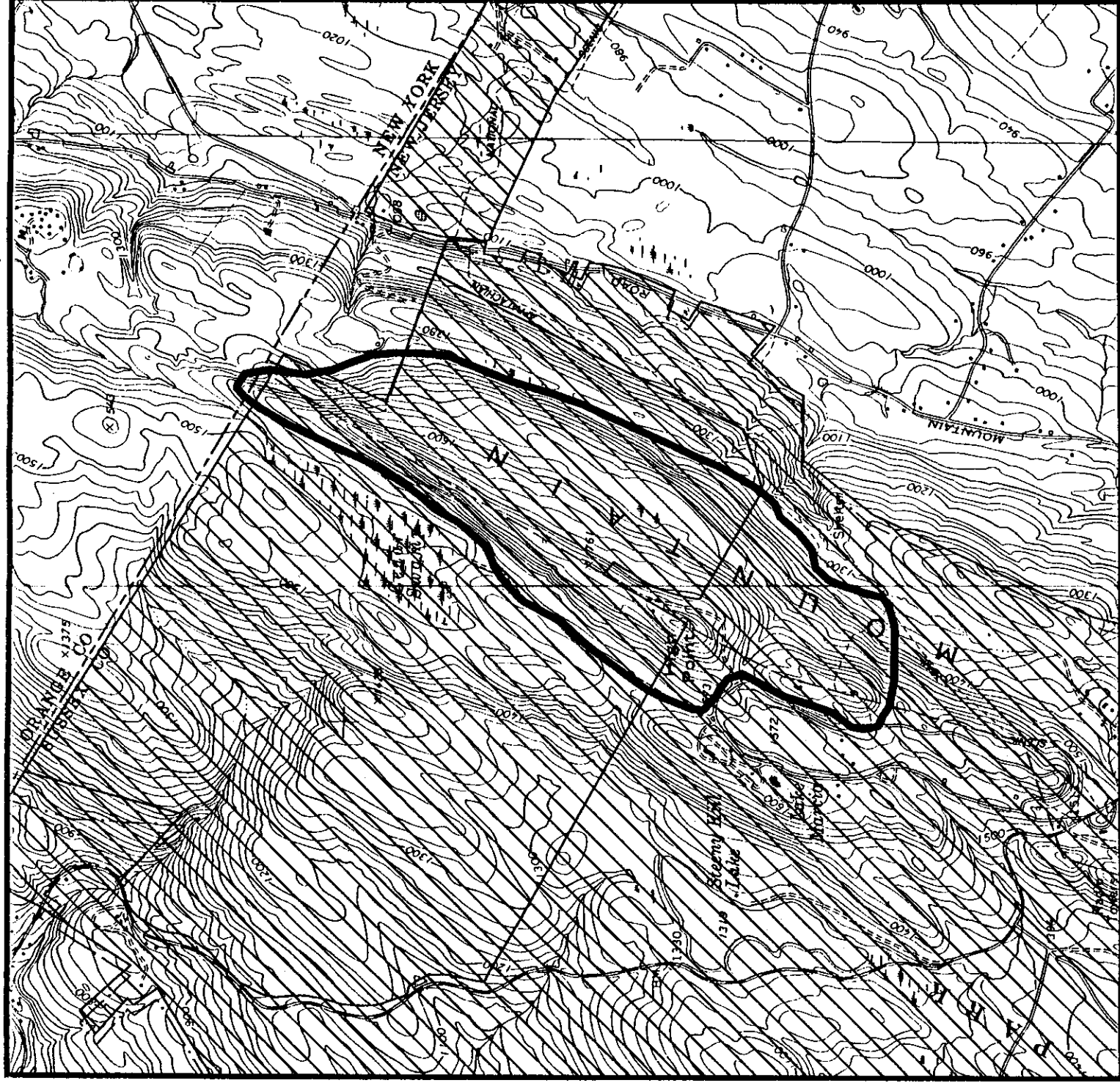
Boundary Justification

Includes habitat for rare plant species.

Biodiversity Rank

B5

One special concern plant species.



Natural Heritage Priority Site
High Point
 Sussex County



Natural Heritage Priority Site High Point

Locational Information

Quad Name: Port Jervis South
County: Sussex
Municipality Wantage Twp ; Montague Twp

Description of Site

A high elevation ridge top with pitch pine/scrub oak forest, exposed rocky outcrops, and chestnut oak forests.

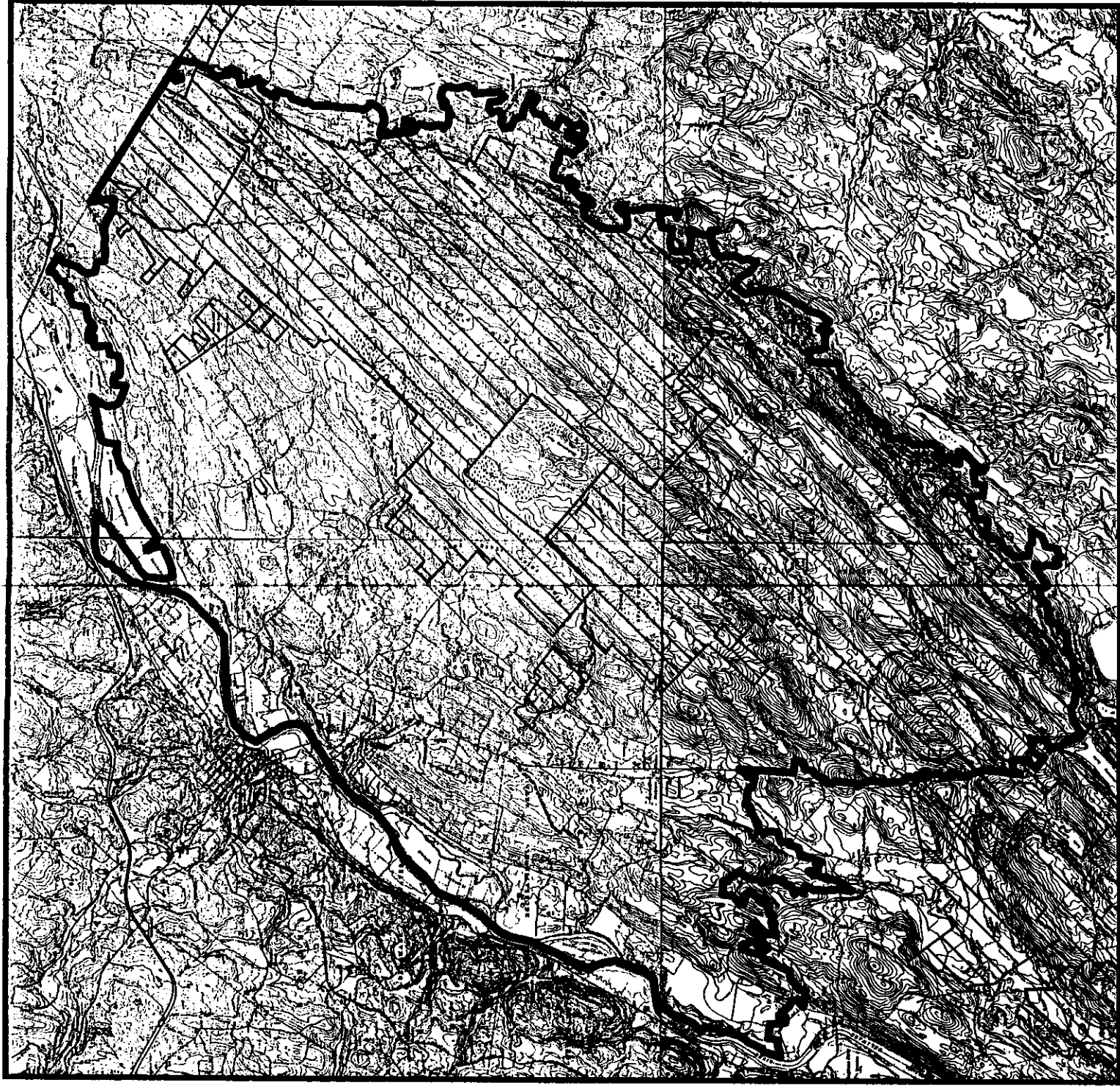
Boundary Justification

Secondary boundaries drawn to include entire ridge that contains rare plant habitat and pitch pine/scrub oak forest.

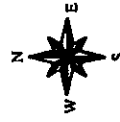
Biodiversity Rank

B4

Contains a viable example of the state rare ridge top pitch pine/scrub oak forest and a state endangered plant species.



Natural Heritage Priority Site
High Point Macrosite
Sussex County



Natural Heritage Priority Site High Point Macrosite

Locational Information

Quad Name: Port Jervis South ; Milford ; Culvers Gap ; Branchville
County: Sussex
Municipality Montague Twp ; Wantage Twp ; Frankford Twp ; Sandyston Twp

Description of Site

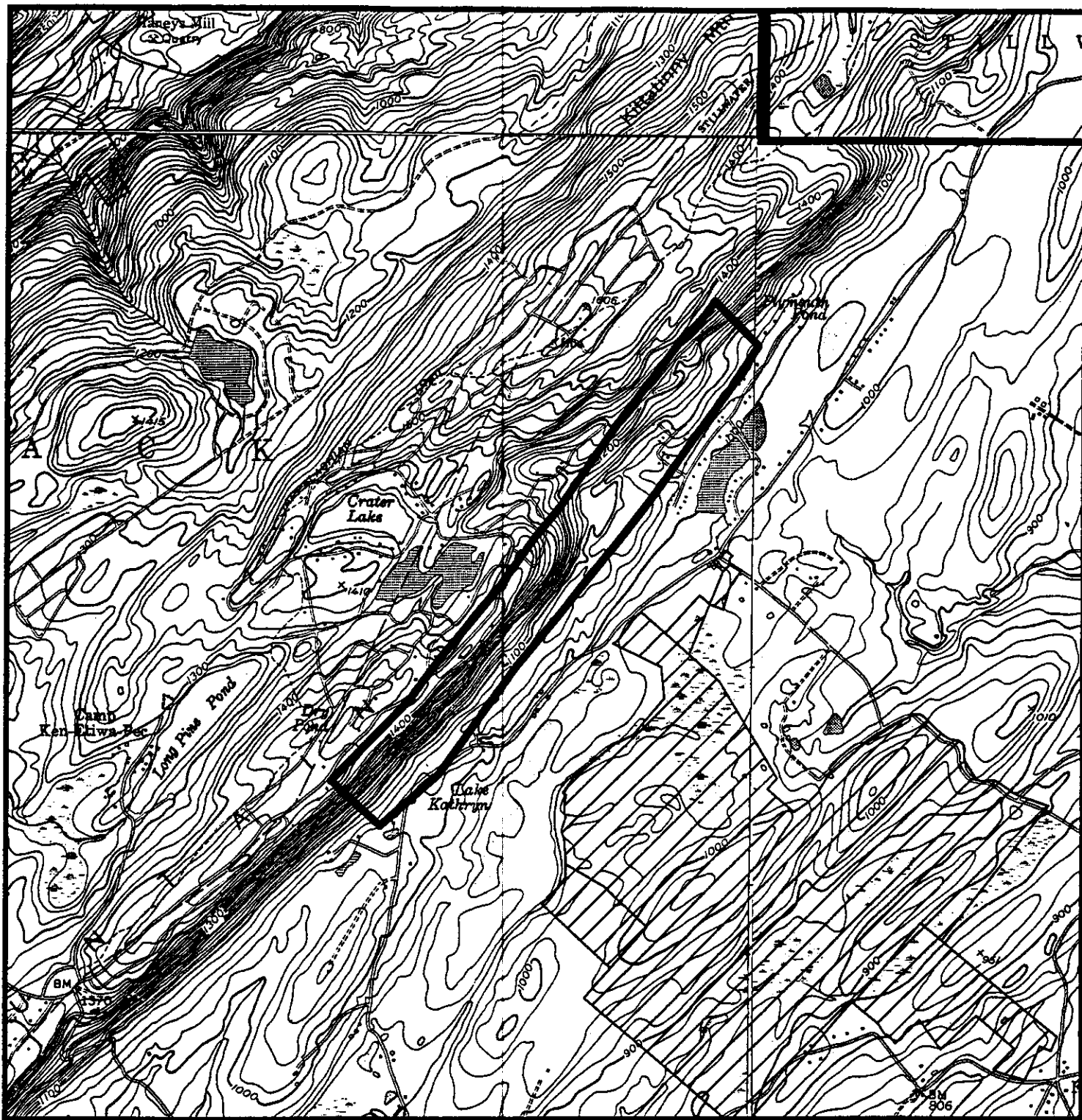
The site contains expansive forests including ridgetop pitch pine/scrub oak forest, talus slope community, chestnut oak forest, mixed hardwood forest, inland Atlantic white cedar swamp, and red maple swamp forests. The contiguous forest cover is broken in a few places by small roads and recreation facilities.

Boundary Justification

Primary boundary includes large contiguous forest and wetland habitat for State-listed Endangered and Threatened Animal Species as identified through the Landscape Project. Secondary boundary follows the outer edge of the forest and wetland habitat.

Biodiversity Rank **B5**

The site contains several occurrences of a State-listed Endangered and Threatened Animal Species.



Natural Heritage Priority Site
Kittatinny Cliffs and Talus
 Sussex County



NJ Department of Environmental Protection
 Division of Parks and Forestry
Natural Lands Management

0.3 0 0.3 Miles

 Priority Site
 Public Land



Natural Heritage Priority Site Kittatinny Cliffs and Talus

Locational Information

Quad Name: Flatbrookville
County: Sussex
Municipality: Stillwater Twp

Description of Site

Cliffs and talus slope of the Kittatinny Mountain, with a forested area of exceptionally cool microclimate at the base of the talus that can hold winter ice into the following summer.

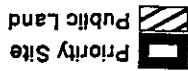
Boundary Justification

Bounds drawn to include cliffs, talus slope and forests at the top of the cliff and bottom of the slope.

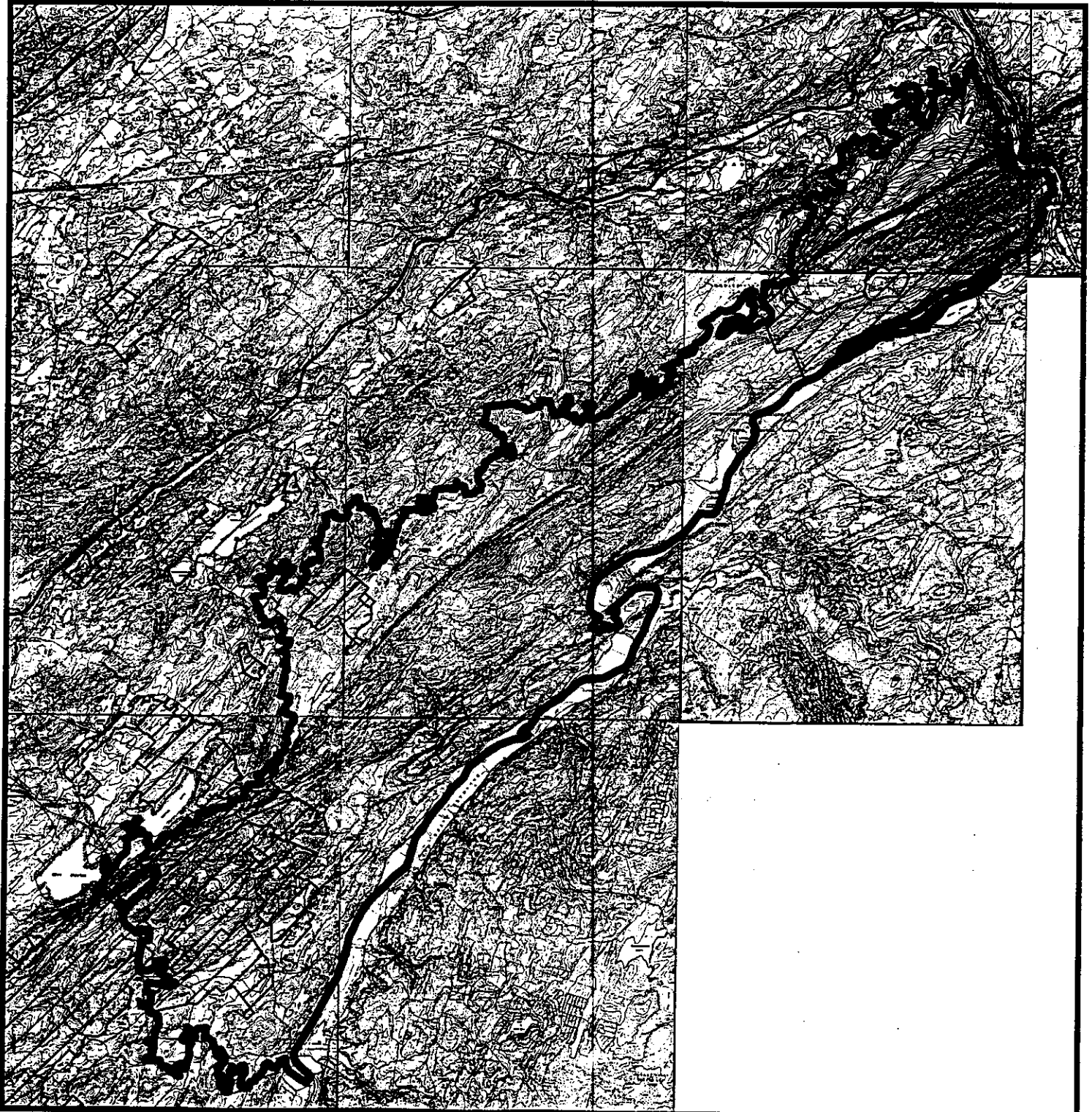
Biodiversity Rank

B4

The site contains a good example of a talus slope natural community, and several State Endangered and Threatened animal species, and State Endangered and Special Concern plant species.



Natural Heritage Priority Site Kittatinny Mountain Macrosite Sussex and Warren Counties



Natural Heritage Priority Site

Kittatinny Mountain Macrosite

Locational Information

Quad Name: Flatbrookville ; Bushkill ; Lake Maskenzha ; Culvers Gap ; Newton West ; Stroudsburg ; Portland

County: Sussex ; Warren

Municipality Walpack Twp ; Stillwater Twp ; Blairstown Twp ; Hardwick Twp ; Frankford Twp ; Hampton Twp ; Sandyston Twp ; Knowlton Twp ; Pahaquarry Twp

Description of Site

The site contains more than ten miles of cliffs and talus slopes and extensive hardwood forests, hemlock ravines, and hardwood and conifer swamps. Several small camps and private residential developments are included.

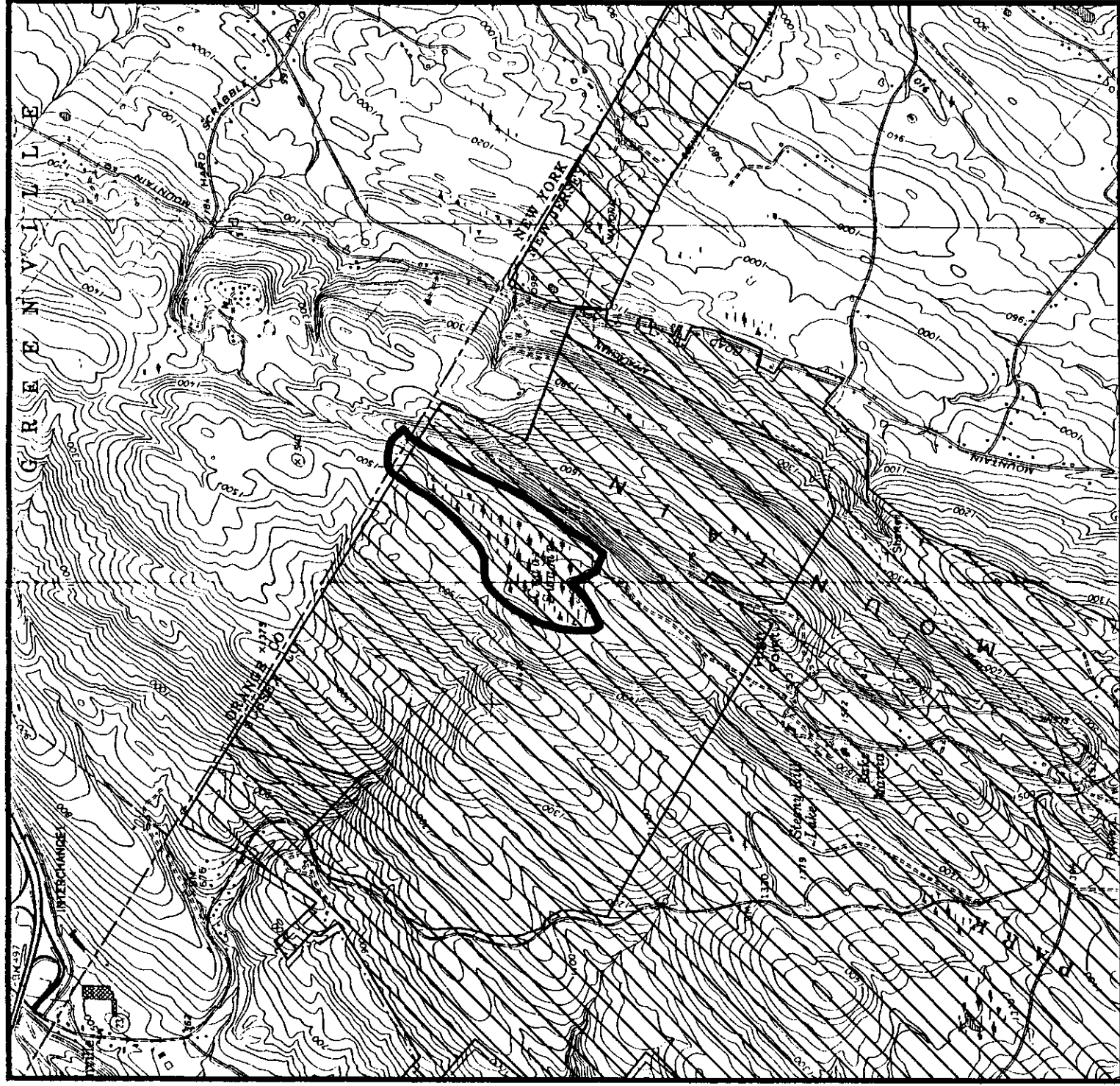
Boundary Justification

Primary boundary includes extensive patches of undeveloped forests and wetland habitat for State-listed Endangered and Threatened Animal Species as identified through the Landscape Project. Secondary boundary follows the outer edge of the forest and wetland habitat.

Biodiversity Rank

B5

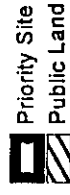
The site contains extensive forest and wetland habitat for several State-listed Endangered and Threatened Animal Species.



Natural Heritage Priority Site
Kuser Cedar Swamp
 Sussex County



NJ Department of Environmental Protection
 Division of Parks and Forestry
Natural Lands Management



Natural Heritage Priority Site Kuser Cedar Swamp

Locational Information

Quad Name: Port Jervis South
County: Sussex
Municipality: Montague Twp

Description of Site

An evergreen swamp forest with portions dominated by Atlantic white cedar; surrounded by a mixed oak and chestnut oak dominated upland forest.

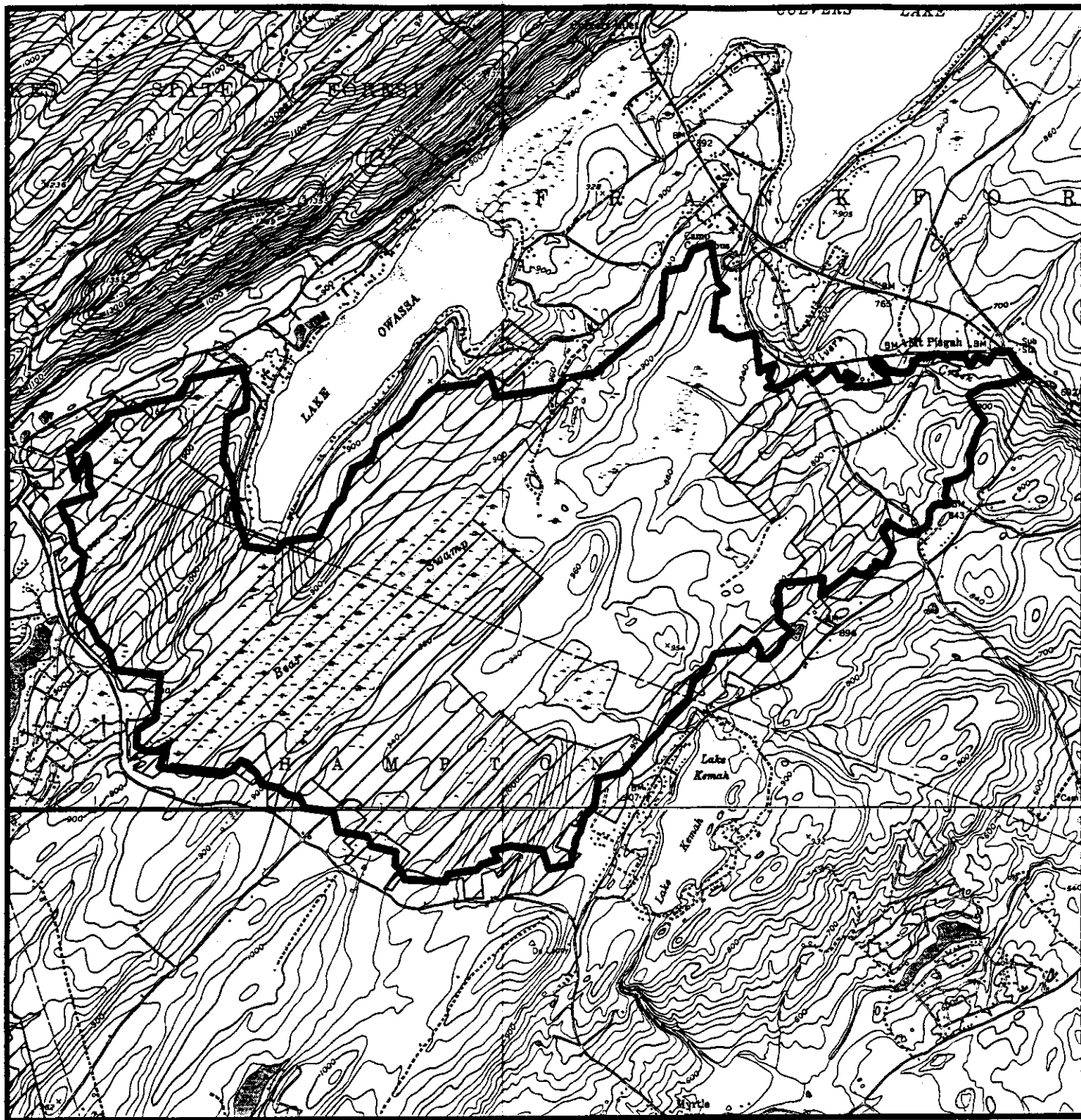
Boundary Justification

Boundaries drawn along edge of swamp forest to include entire wetland that provides habitat for the rare natural community and rare plant species.

Biodiversity Rank

B4

Contains a viable example of a globally rare natural community.



Natural Heritage Priority Site
Lake Owassa Bear Swamp
 Sussex County



NJ Department of Environmental Protection
 Division of Parks and Forestry

Natural Lands Management

0.4 0 0.4 Miles

A horizontal scale bar with markings for 0.4 miles on either side of a central zero point.

 Priority Site
 Public Land



Natural Heritage Priority Site Lake Owassa Bear Swamp

Locational Information

Quad Name: Culvers Gap
County: Sussex
Municipality: Frankford Twp ; Hampton Twp

Description of Site

A large mixed hardwood/conifer swamp forest and adjacent upland hardwood forest.

Boundary Justification

Primary bounds drawn to include large patch of undeveloped forest and wetland habitat for State-listed Endangered and Threatened animal species as identified through the Landscape Project. Secondary bounds follow outer edge of forested habitat.

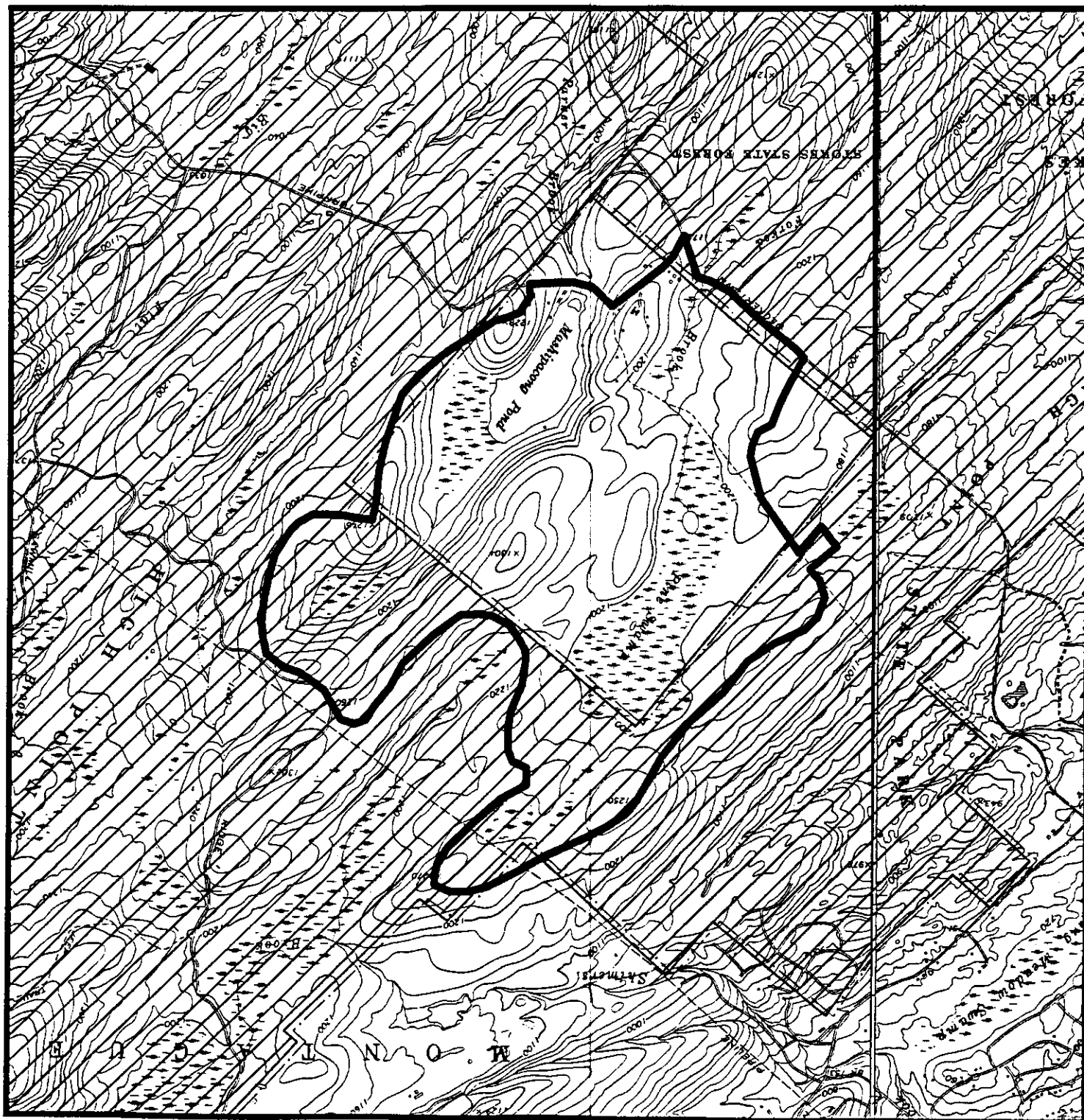
Biodiversity Rank

B5

Site contains a rare wetland natural community, a State Threatened bird species, and State Endangered plant species.



Natural Heritage Priority Site Mashipacong Bogs Sussex County



Natural Heritage Priority Site Mashipacong Bogs

Locational Information

Quad Name: Port Jervis South
County: Sussex
Municipality Montague Twp

Description of Site

This site is situated on the westerly side of the Kittatinny Mountains. The habitat is generally hilly in nature with a rocky, mixed oak forest. On the northern edge of the site lie two glacial bogs, known as Lost Lake Bogs, that are surrounded by a large black spruce-tamarack swamp. Mashipacong Pond is found on the southeastern side of the site. An extensive glacial bog is found along the northern edge of Mashipacong Pond. There are several small streams running through the property including Forked Brook, which drains to the south into Stokes State Forest and Parker Brook, which drains in a southwesterly direction into High Point State Forest property.

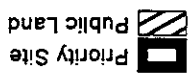
Boundary Justification

Two separate primaries are included in this design. The western primary area includes the two glacial bogs, known as Lost Lake Bogs and the black spruce-tamarack swamp that connects them. The bogs are approximately 2000 feet apart. The eastern primary area includes Mashipacong Pond and a glacial bog and black spruce swamp both located at the northern edge of the lake. The secondary boundary encompasses both primaries, the surrounding uplands that drain into these wetlands and two additional wetlands areas, one north of Lost Lake Bogs and the other north of Mashipacong Pond.

Biodiversity Rank

B3

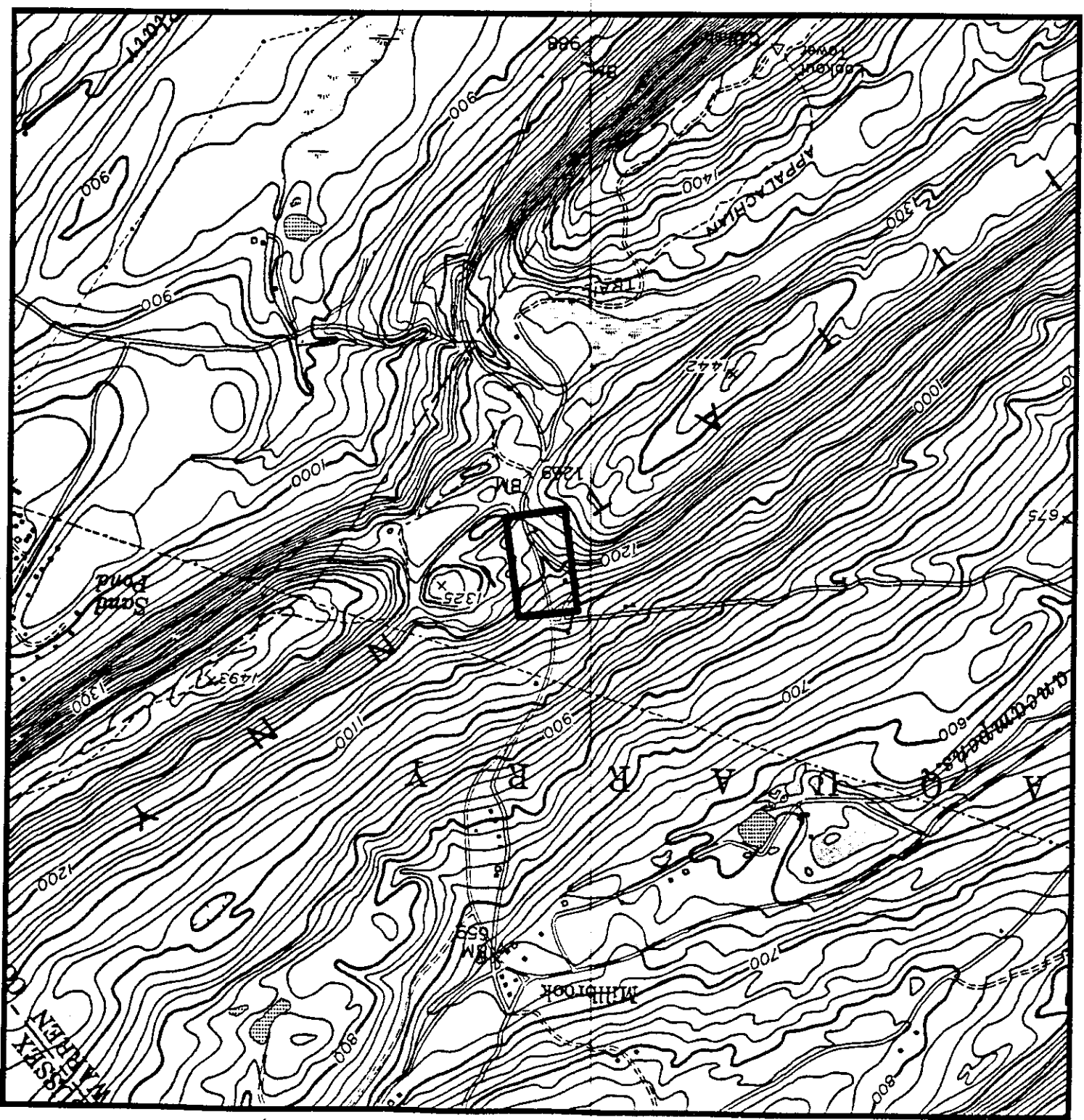
Contains high quality examples of several state significant natural communities and plant species.



Natural Heritage Priority Site

Millbrook Gap

Warren County



Natural Heritage Priority Site Millbrook Gap

Locational Information

Quad Name: Flatbrookville
County: Warren
Municipality: Hardwick Twp

Description of Site

Wet roadside seepage slope.

Boundary Justification

Includes wetland habitat for rare plant.

Biodiversity Rank **B4**

Only known occurrence for state critically imperiled plant species.



Public Land
Priority Site



Natural Heritage Priority Site Mt. Tammany Warren County



Natural Heritage Priority Site Mt. Tammany

Locational Information

Quad Name: Portland
County: Warren
Municipality: Hardwick Twp ; Knowlton Twp

Description of Site

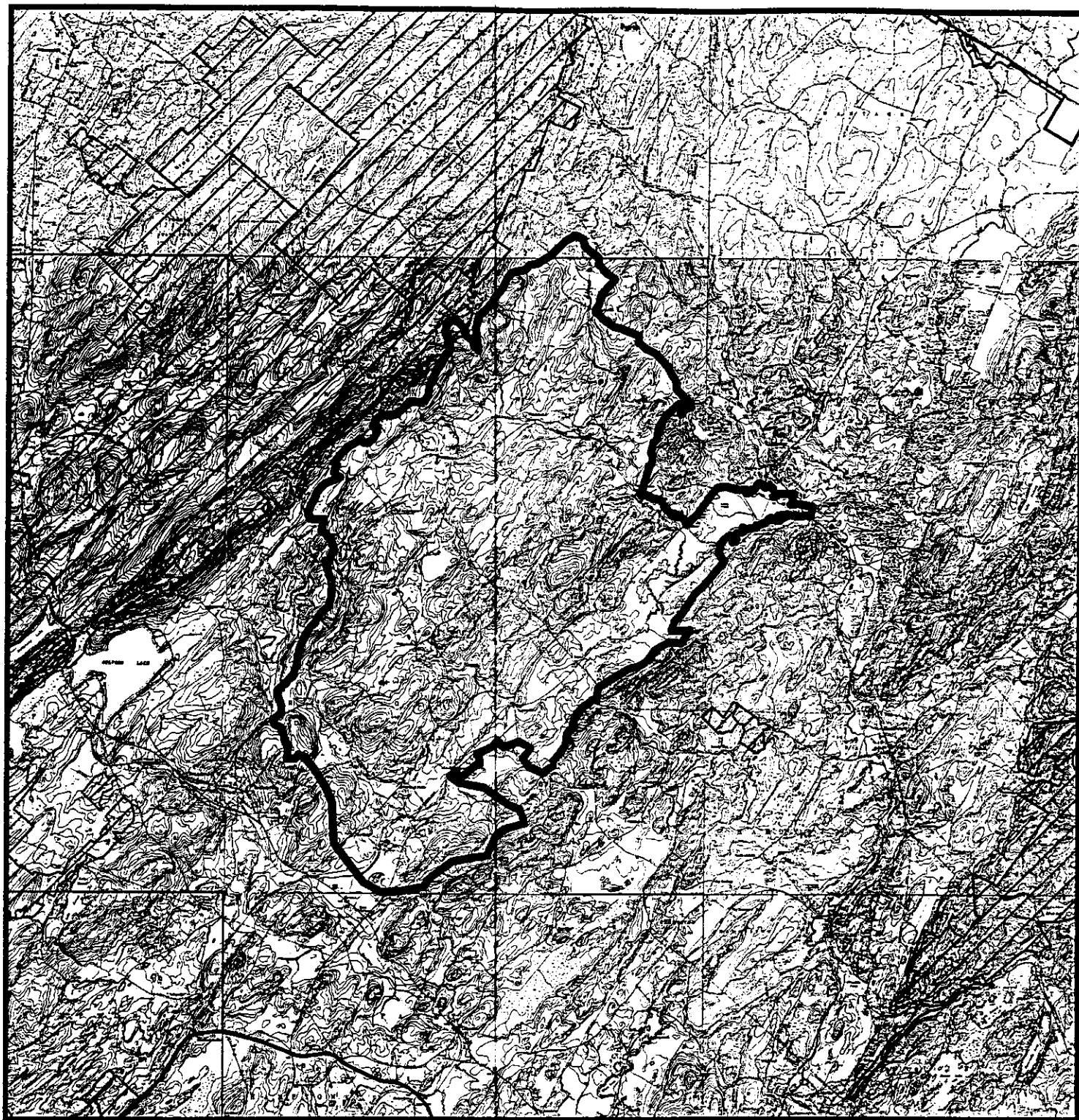
Sheer cliffs, talus slope, and rocky outcrops of the Delaware Water Gap.

Boundary Justification

Bounds drawn to include cliff and talus slope communities and lands that drain towards them.

Biodiversity Rank **B4**

The site contains two good quality natural communities, one state endangered plant species and six plant species of special concern.



Natural Heritage Priority Site
Papakating Creek Macrosite
Sussex County



NJ Department of Environmental Protection
Division of Parks and Forestry

Natural Lands Management

0

3 Miles



Priority Site
Public Land



Natural Heritage Priority Site Papakating Creek Macrosite

Locational Information

Quad Name: Branchville ; Hamburg ; Port Jervis South
County: Sussex
Municipality Wantage Twp ; Frankford Twp ; Lafayette Twp ; Sussex Boro

Description of Site

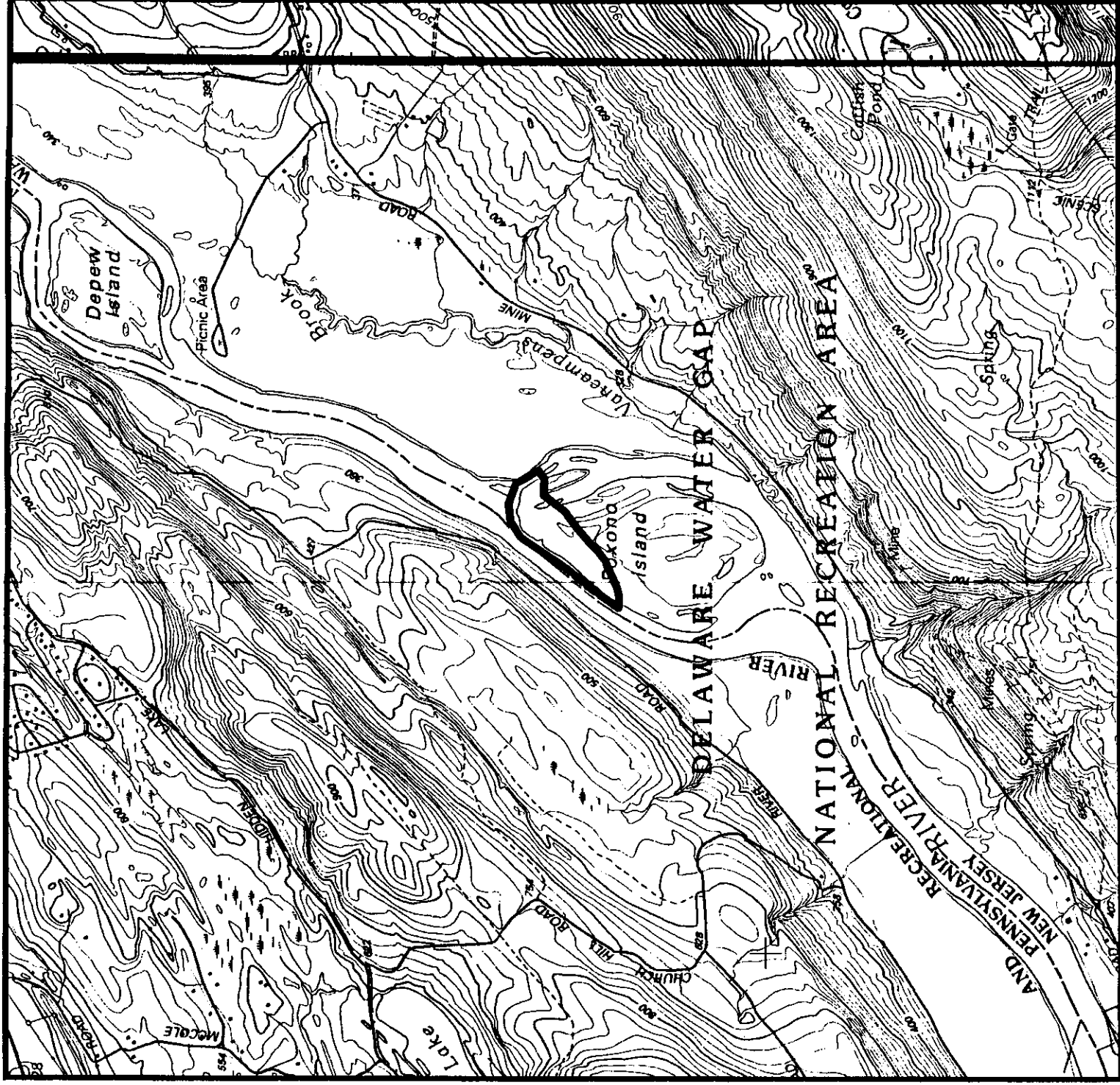
A series of emergent marsh, shrub dominated, and forest dominated wetlands along the Papakating Creek drainage.

Boundary Justification

Primary bounds include wetland habitat of significance to rare animals. Secondary bounds include the watershed of Papakating Creek where management of stormwater and groundwater quality can benefit the quality of the wetland habitat of the animals.

Biodiversity Rank **B3**

Contains good occurrences of a globally rare State Endangered animal, and additional occurrences of State threatened animals, and a State Endangered plant species.



Natural Heritage Priority Site

Poxono Island

Warren County

Natural Heritage Priority Site Poxono Island

Locational Information

Quad Name: Bushkill
County: Warren
Municipality: Hardwick Twp

Description of Site

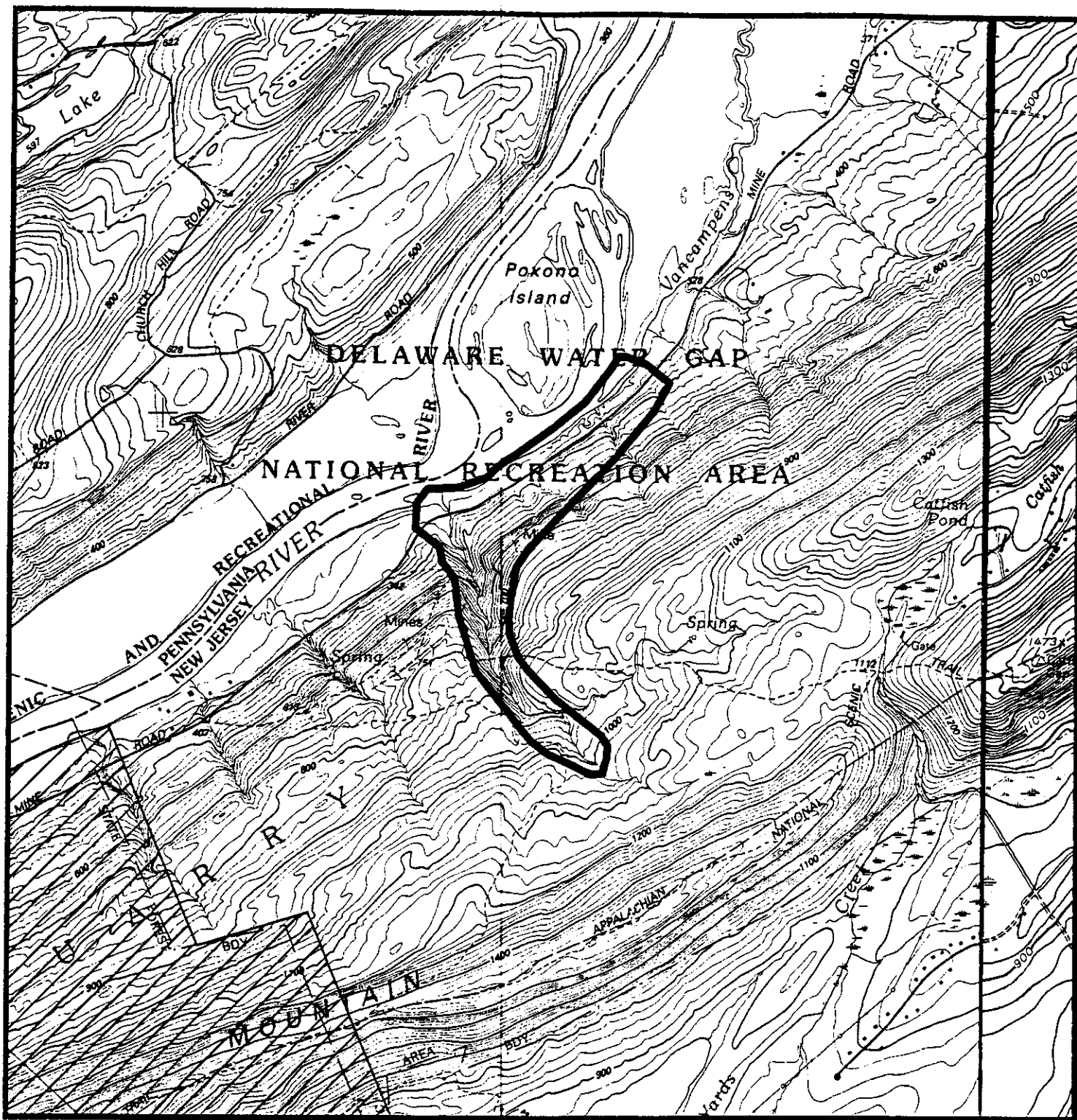
The site is the gravelly shore of an island in the Delaware River.

Boundary Justification

The bounds include the river shore habitat for an endangered plant species.

Biodiversity Rank **[B4]**

The site contains one State-Listed Endangered Plant Species.



Natural Heritage Priority Site

Poxono Shore

Warren County



NJ Department of Environmental Protection
Division of Parks and Forestry

Natural Lands Management

0.3 0 0.3 Miles



Priority Site
Public Land



Natural Heritage Priority Site Poxono Shore

Locational Information

Quad Name: Bushkill
County: Warren
Municipality: Hardwick Twp

Description of Site

Wooded seepage areas along and adjacent to Delaware River, and hemlock ravine draining towards Delaware River.

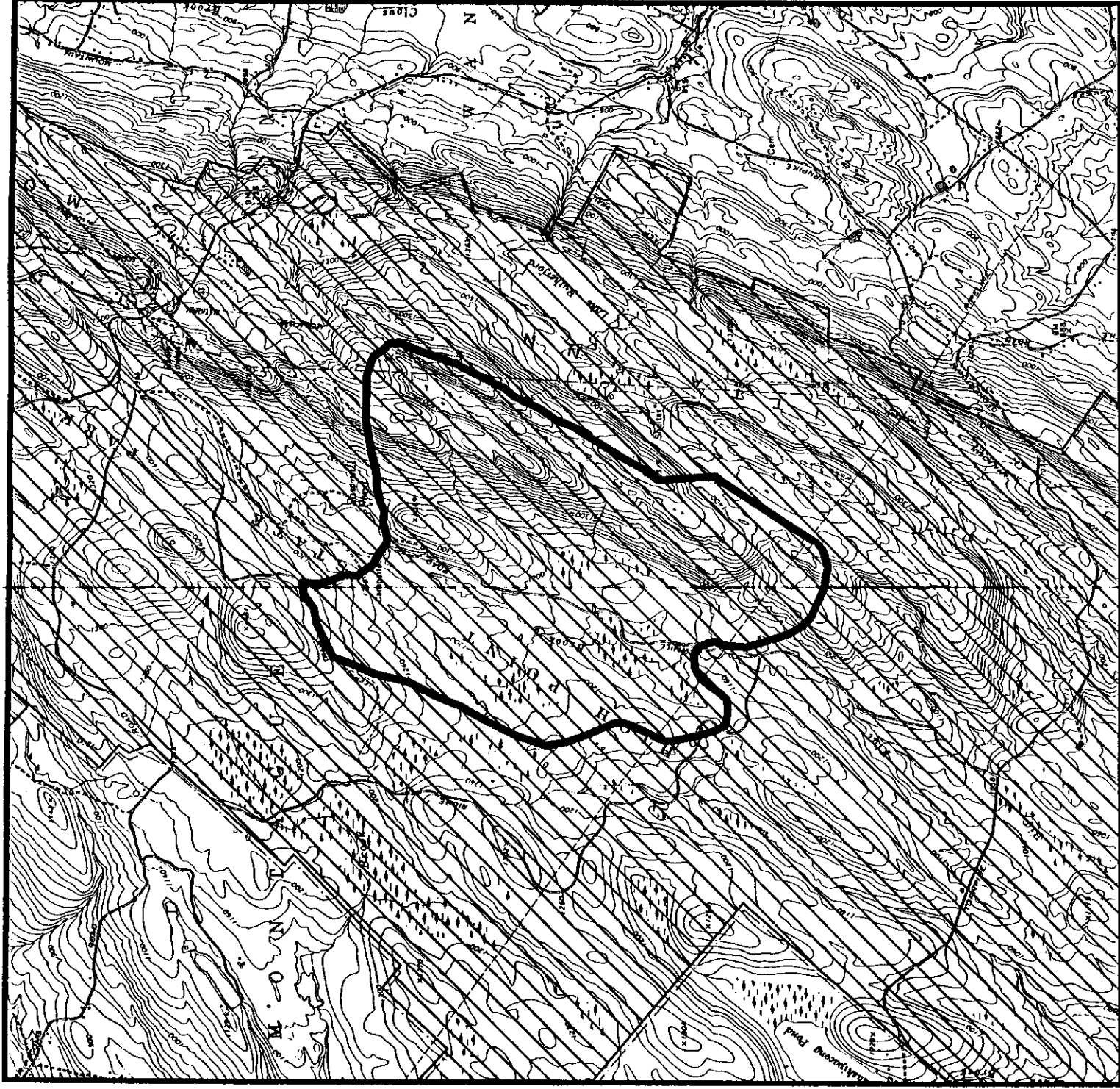
Boundary Justification

Includes wetland habitats for rare plant species.

Biodiversity Rank

B4

Two State listed endangered plant species, plus special concern plant species.



Natural Heritage Priority Site
Sawmill Pond Swamp
Sussex County



Division of Parks and Forestry
Natural Lands Management



Natural Heritage Priority Site Sawmill Pond Swamp

Locational Information

Quad Name: Port Jervis South
County: Sussex
Municipality Montague Twp ; Wantage Twp

Description of Site

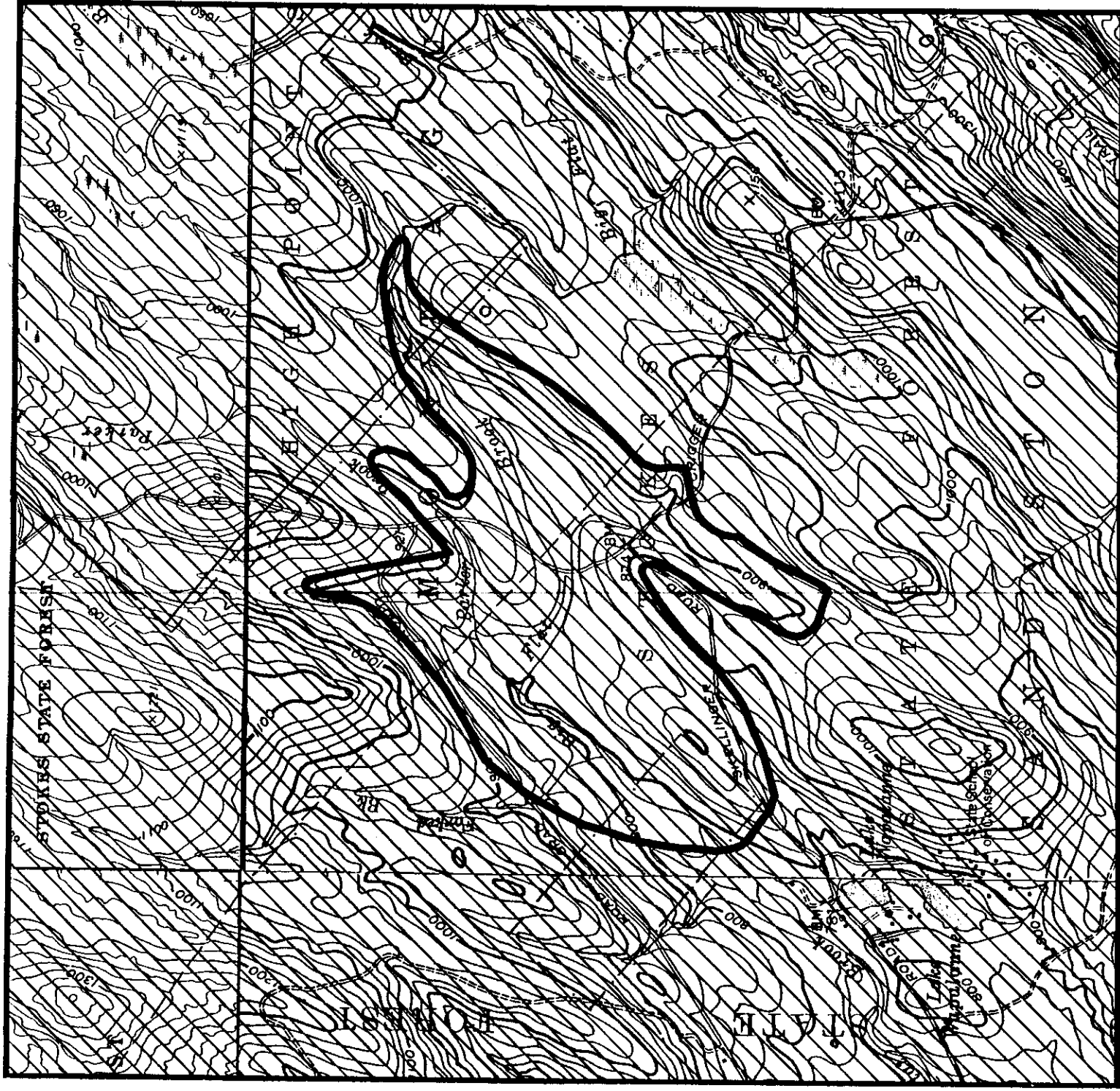
A large beaver-flooded meadow dominated by sedges and herbs, surrounded by upland hardwood forest, and including a separate mixed conifer-hardwood swamp.

Boundary Justification

Bounds drawn to include significant wetland habitat for rare plant and animal species and upland buffer in the topographic drainage basin.

Biodiversity Rank **B4**

The site contains a rare insect, a State Threatened bird species, and two State Endangered plant species.



Natural Heritage Priority Site
Steam Mill Site
 Sussex County



NJ Department of Environmental Protection
 Division of Parks and Forestry
Natural Lands Management



Natural Heritage Priority Site Steam Mill Site

Locational Information

Quad Name: Branchville
County: Sussex
Municipality Sandyston Twp ; Montague Twp

Description of Site

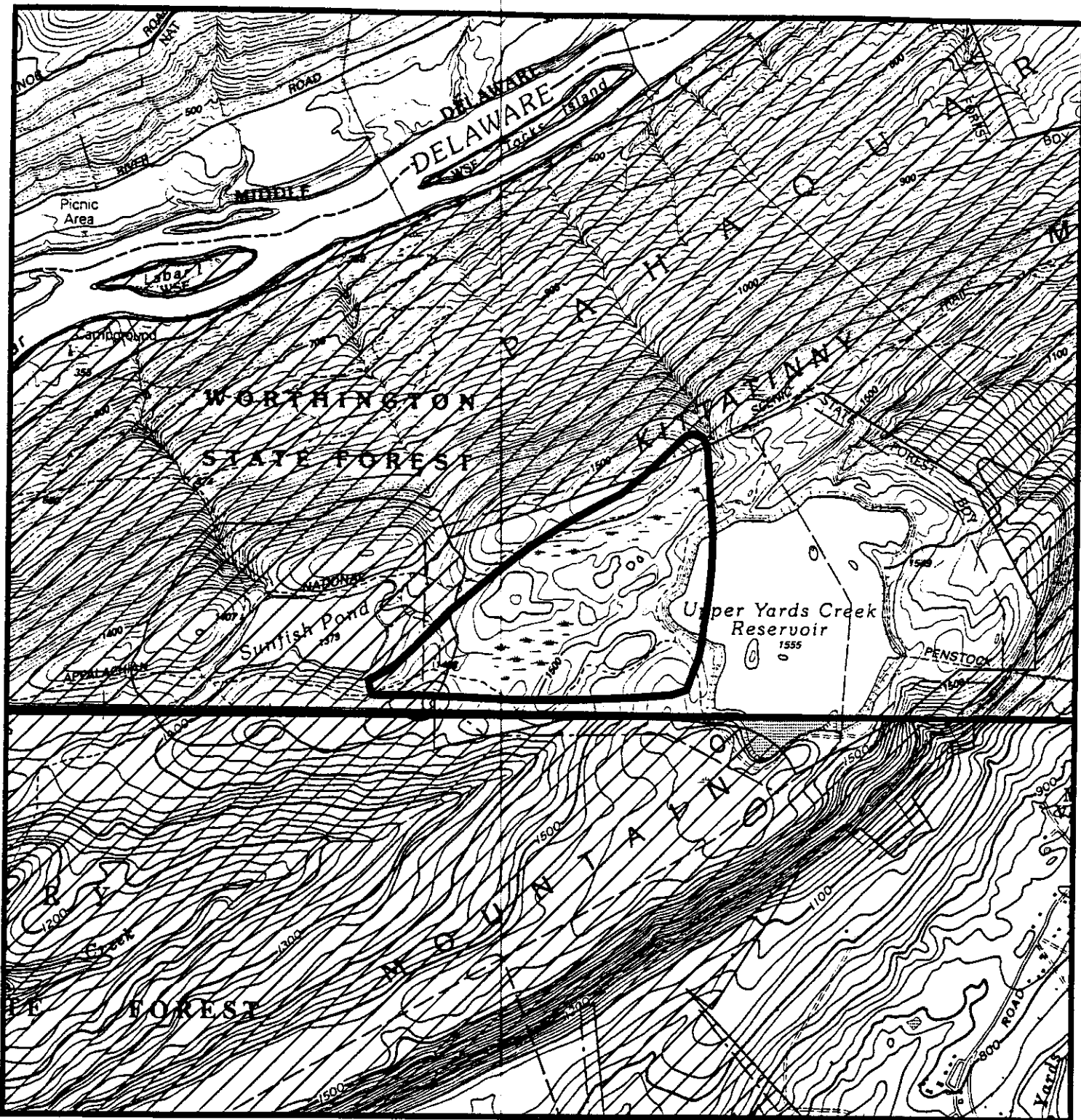
Hemlock woods along stream with numerous sphagnous seepage areas.

Boundary Justification

Bounds drawn to include the known extent of rare plant populations plus adjacent buffer land.

Biodiversity Rank **[B4]**

The site contains five State-listed Endangered Plant Species and one State-listed Endangered Animal.



Natural Heritage Priority Site
Tocks Swamp
 Warren County



NJ Department of Environmental Protection
 Division of Parks and Forestry
Natural Lands Management

0.3 0 0.3 Miles

 Priority Site
 Public Land



Natural Heritage Priority Site Tocks Swamp

Locational Information

Quad Name: Bushkill
County: Warren
Municipality: Hardwick Twp

Description of Site

Large, high elevation wooded swamp complex with spruce dominant in places.

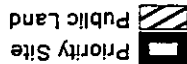
Boundary Justification

Includes full extent of wetland complex plus buffer.

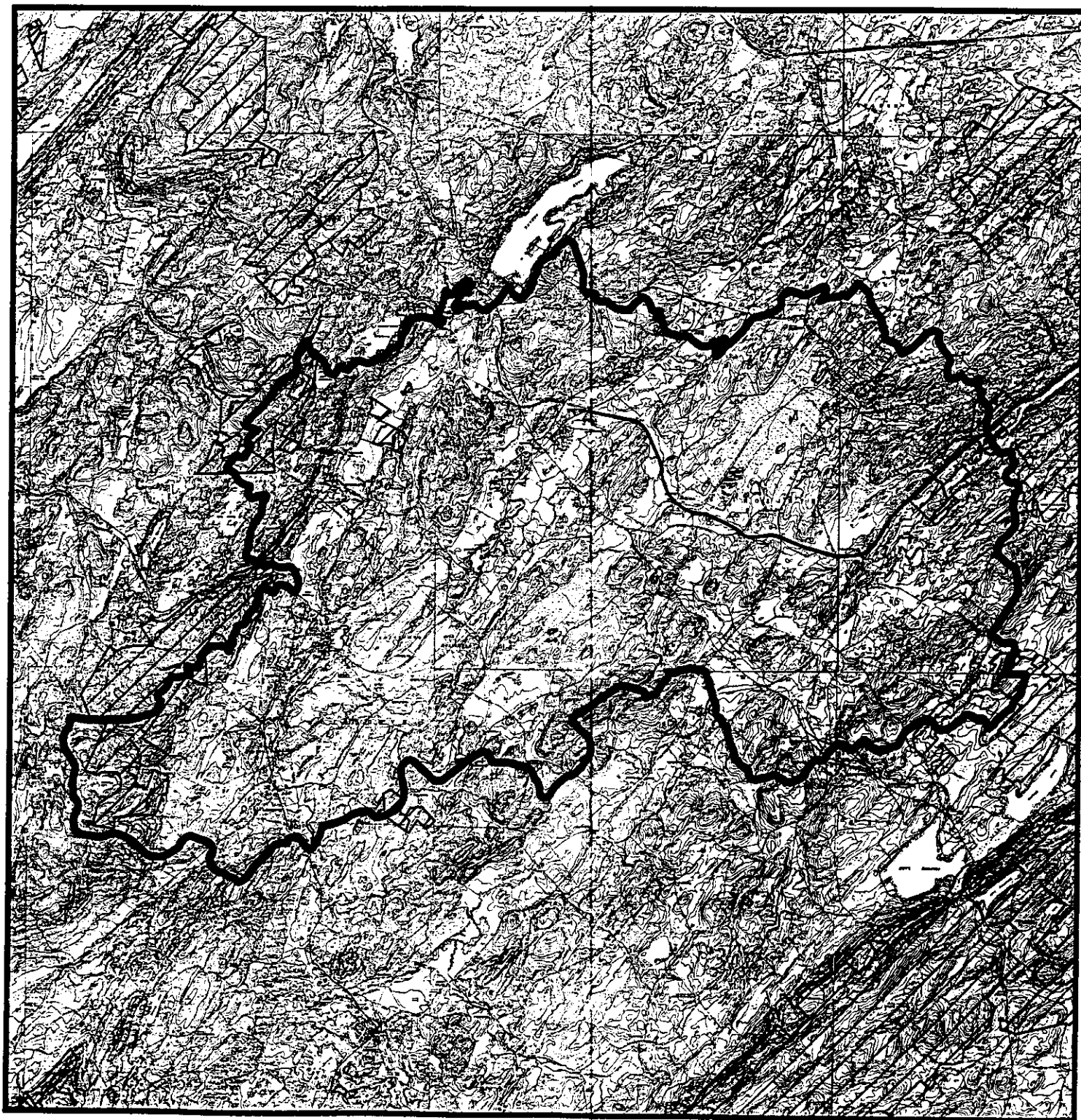
Biodiversity Rank

B4

The site contains a State-listed Endangered Plant Species, a state-imperiled plant community, and several Plant Species of Special Concern.



Natural Heritage Priority Site Two River Headwaters Macrosite Sussex County



Natural Heritage Priority Site

Two River Headwaters Macrosite

Locational Information

Quad Name: Franklin ; Newton East ; Newton West ; Hamburg ; Branchville ; Culvers Gap

County: Sussex

Municipality Andover Twp ; Branchville Boro ; Franklin Boro ; Frankford Twp ; Fredon Twp ; Hampton Twp ; Hamburg Boro ; Hardyston Twp ; Lafayette Twp ; Newton Town ; Ogdensburg Boro ; Sparta Twp ; Vernon Twp ; Wantage Twp

Description of Site

A large area of wetlands, forests and grasslands at the upper reaches of the Paulinskill and Walkill Rivers.

Boundary Justification

Primary boundary includes wetlands, forests and grasslands of importance to Endangered and Threatened Animal Species as identified through the Landscape Project. Secondary boundary includes lands draining towards the wetlands.

Biodiversity Rank

B3

The site contains eleven B3 or B2 ranked standard sites and additional habitat for globally rare and imperiled animal species.

Natural Heritage Priority Site Vancampens Glen

Locational Information

Quad Name: Flatbrookville
County: Warren
Municipality: Hardwick Twp

Description of Site

A deep, steep sided hemlock ravine.

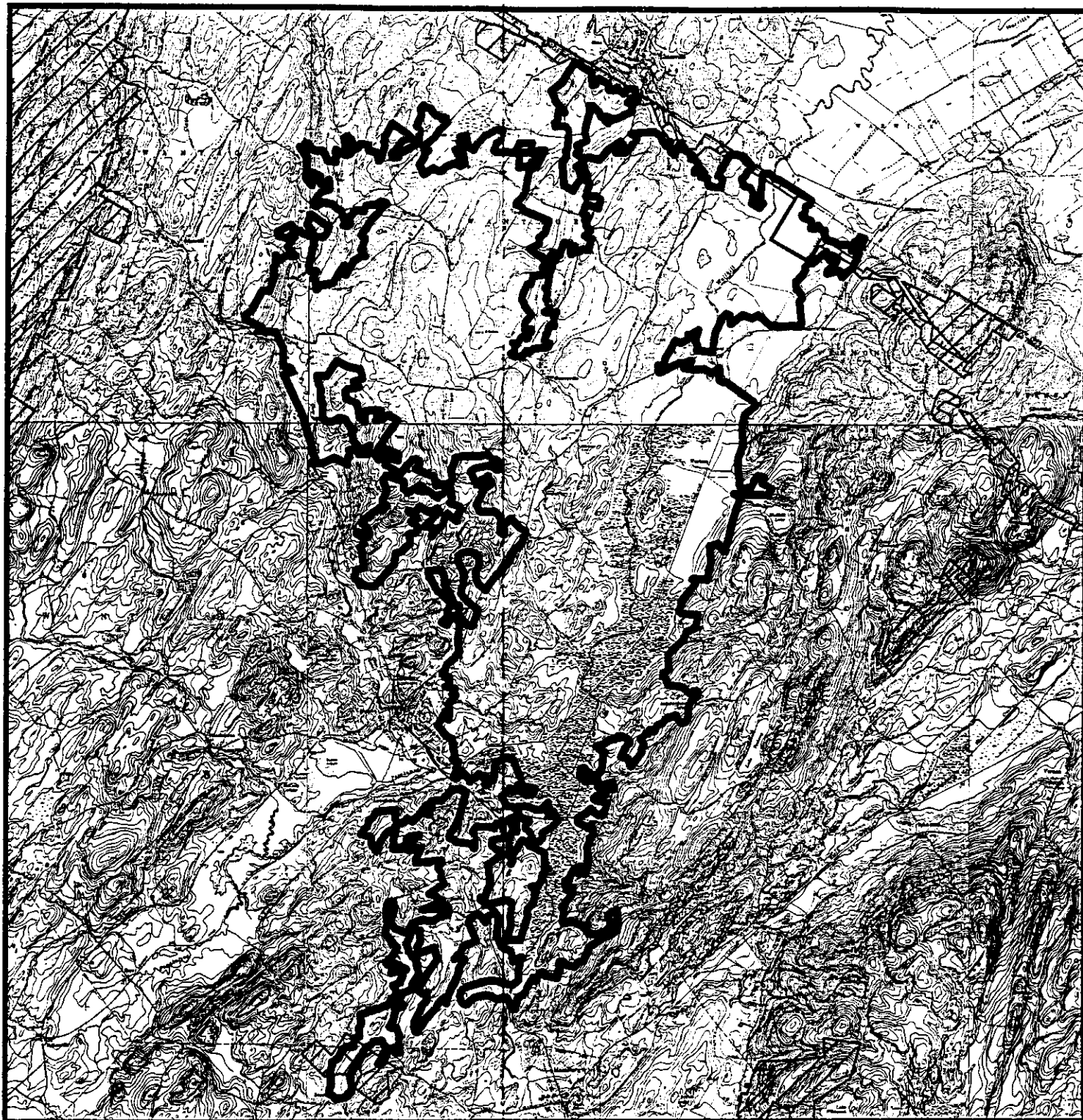
Boundary Justification

The bounds include the known extent of rare plant species habitat plus adjacent buffer land.

Biodiversity Rank

B4

The site includes one State-listed Endangered Plant Species.



Natural Heritage Priority Site
Wallkill Valley Grasslands Macrosite
Sussex County



NJ Department of Environmental Protection
Division of Parks and Forestry

Natural Lands Management

1 0 1 Miles

Priority Site
 Public Land



Natural Heritage Priority Site
Wallkill Valley Grasslands Macrosite

Locational Information

Quad Name: Hamburg ; Unionville ; Branchville
County: Sussex
Municipality Vernon Twp ; Wantage Twp ; Hardyston Twp ; Sussex Boro

Description of Site

Grasslands and wetlands along the Wallkill River valley and Wantage Township north of Route 23.

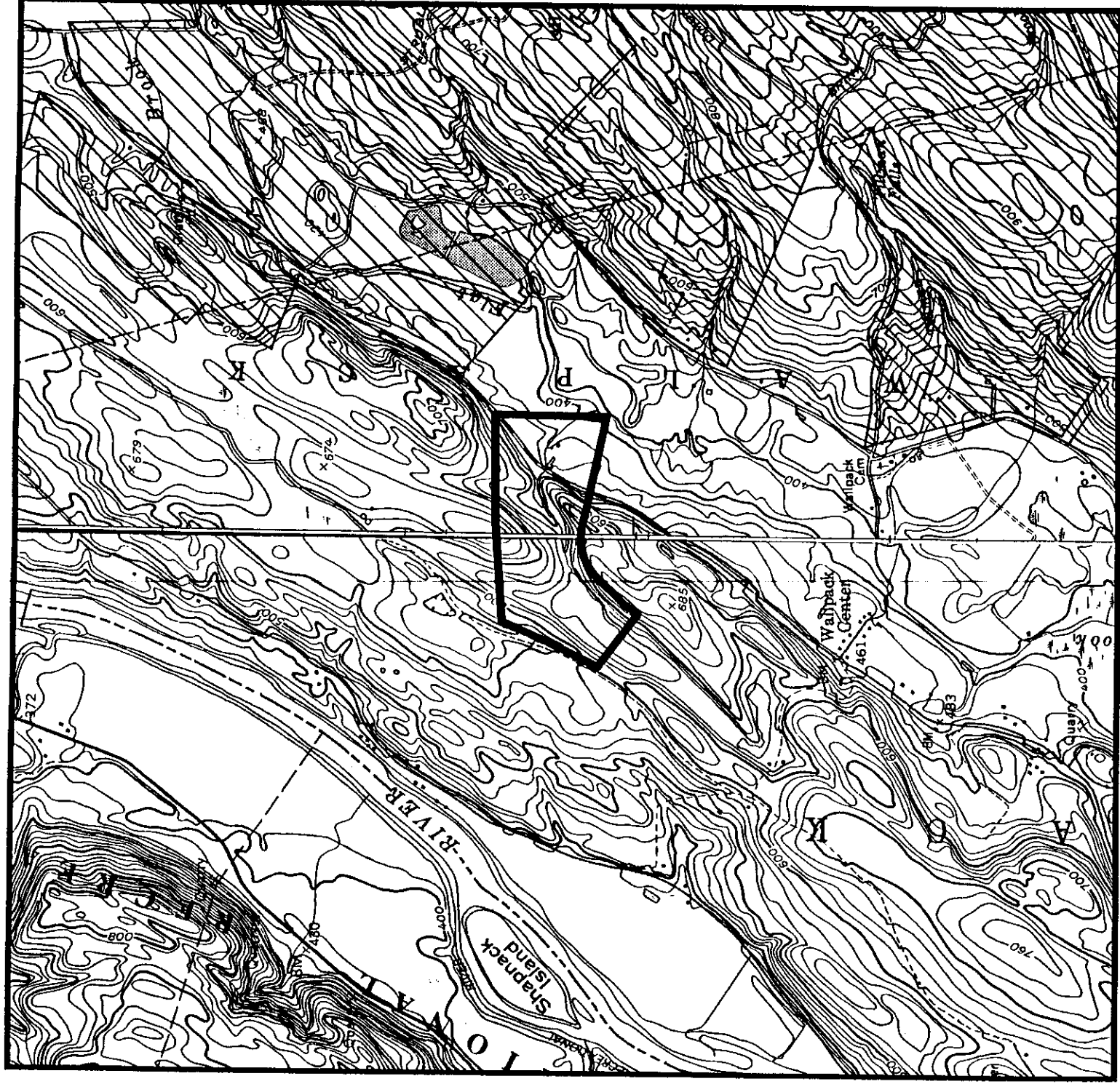
Boundary Justification

Primary boundary depicts grassland and wetland habitat for endangered and threatened animal species as mapped by the NJDEP Landscape Project. Secondary boundary follows the outer boundary of the grassland and wetland habitat.

Biodiversity Rank

B5

The site contains numerous occurrences of State-listed Endangered and Threatened animal species.



Natural Heritage Priority Site

Wallpack Ravine

Sussex County

Natural Heritage Priority Site Wallpack Ravine

Locational Information

Quad Name: Culvers Gap ; Lake Maskenozha
County: Sussex
Municipality Walpack Twp

Description of Site

Wooded ravine and limestone wetlands.

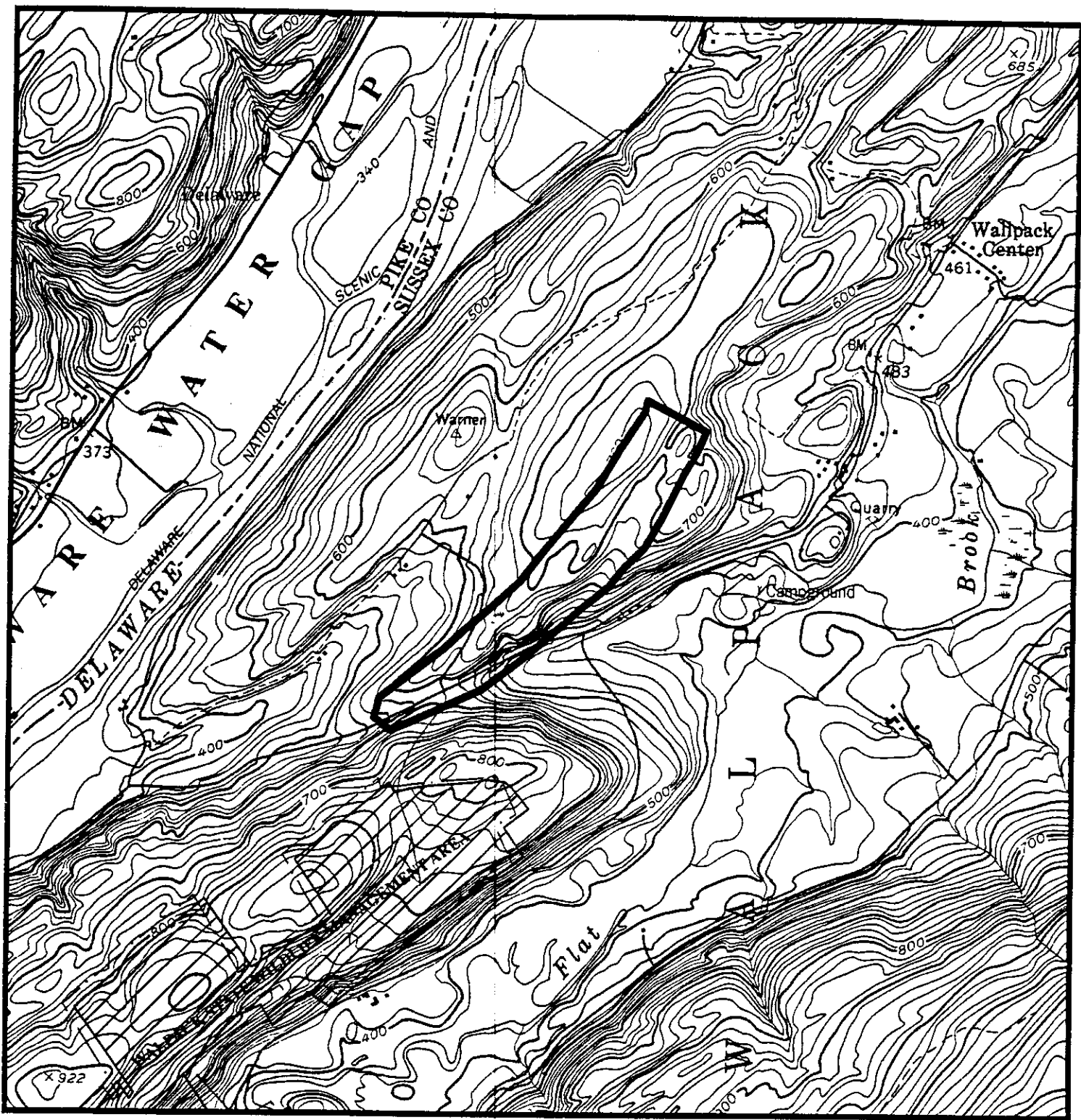
Boundary Justification

Includes extent of ravine and wetland habitat plus buffer.

Biodiversity Rank

B4

One critically imperiled community and one state listed endangered plant species, plus a concentration of special concern plant species. One state listed threatened animal species.



Natural Heritage Priority Site

Wallpack Ridge

Sussex County



NJ Department of Environmental Protection
Division of Parks and Forestry

Natural Lands Management

0.2 0 0.2 Miles



 Priority Site
 Public Land



Natural Heritage Priority Site
Wallpack Ridge

Locational Information

Quad Name: Lake Maskenozha
County: Sussex
Municipality: Walpack Twp

Description of Site

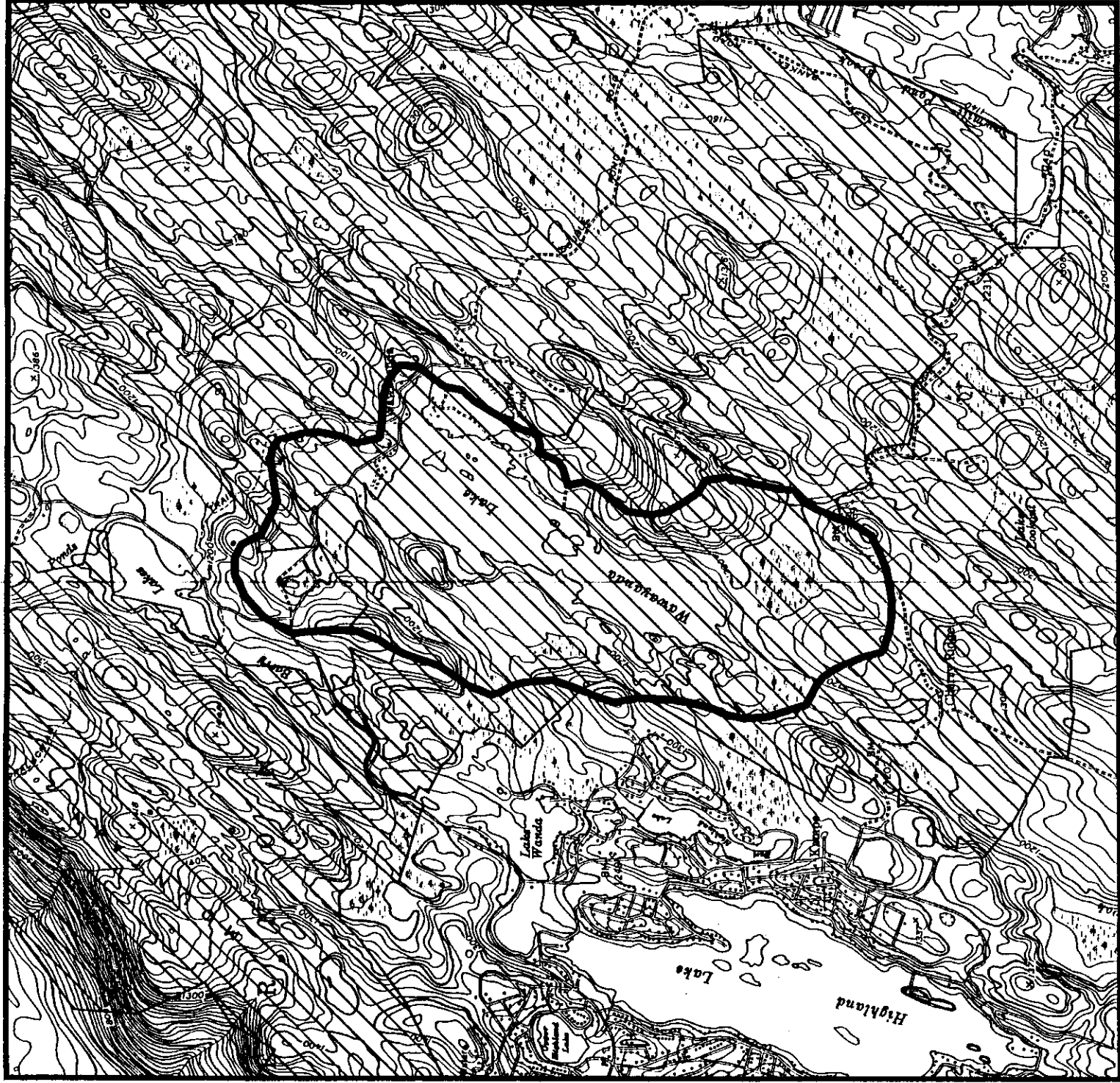
A low wooded ridge with bare rock outcrops and ledges.

Boundary Justification

Bounds include the extent of rock outcrop habitat plus adjacent buffer land.

Biodiversity Rank **[B4]**

The site contains a population of a State-listed Endangered Plant Species and several Plant Species of Special Concern.



Natural Heritage Priority Site

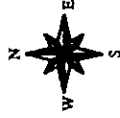
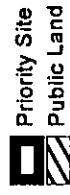
Wawayanda Lake

Sussex County



NJ Department of Environmental Protection
Division of Parks and Forestry
Natural Lands Management

0.4 0 0.4 Miles



Natural Heritage Priority Site
Wawayanda Lake

Locational Information

Quad Name: Wawayanda
County: Sussex
Municipality: Vernon Twp

Description of Site

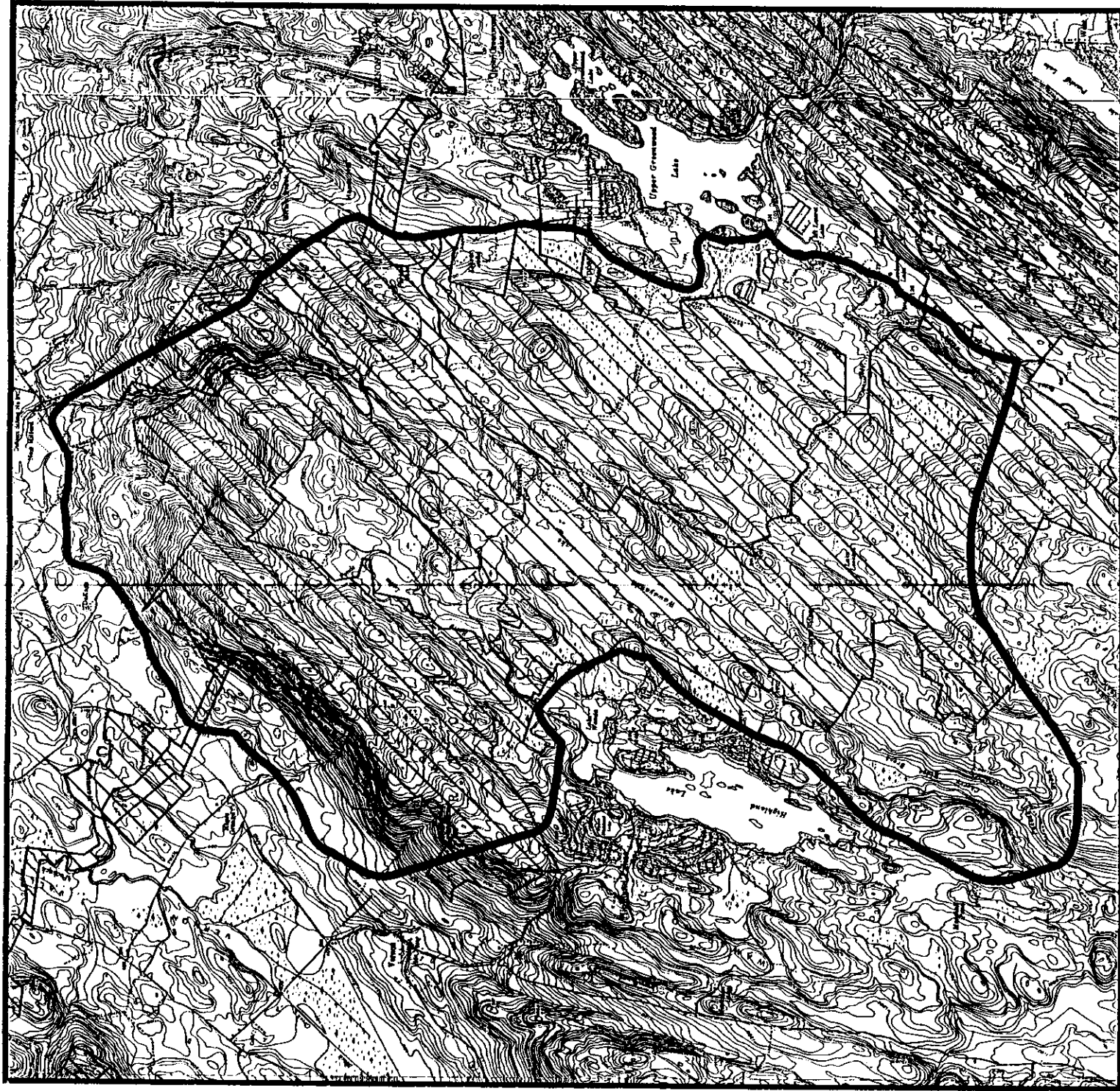
A mountain lake (elevation 1150 ft) containing a number of rare aquatic plants.

Boundary Justification

Primary bound drawn to include the lake and immediately adjacent wetlands that provide habitat to rare plant species. Secondary bounds include the drainage basin for the lake.

Biodiversity Rank **B4**

Contains a concentration of State-Endangered aquatic plant species.



Natural Heritage Priority Site
Wawayanda Macrosite
Passaic and Sussex Counties

Natural Heritage Priority Site Wawayanda Macrosite

Locational Information

Quad Name: Wawayanda
County: Sussex ; Passaic
Municipality Vernon Twp ; West Milford Twp

Description of Site

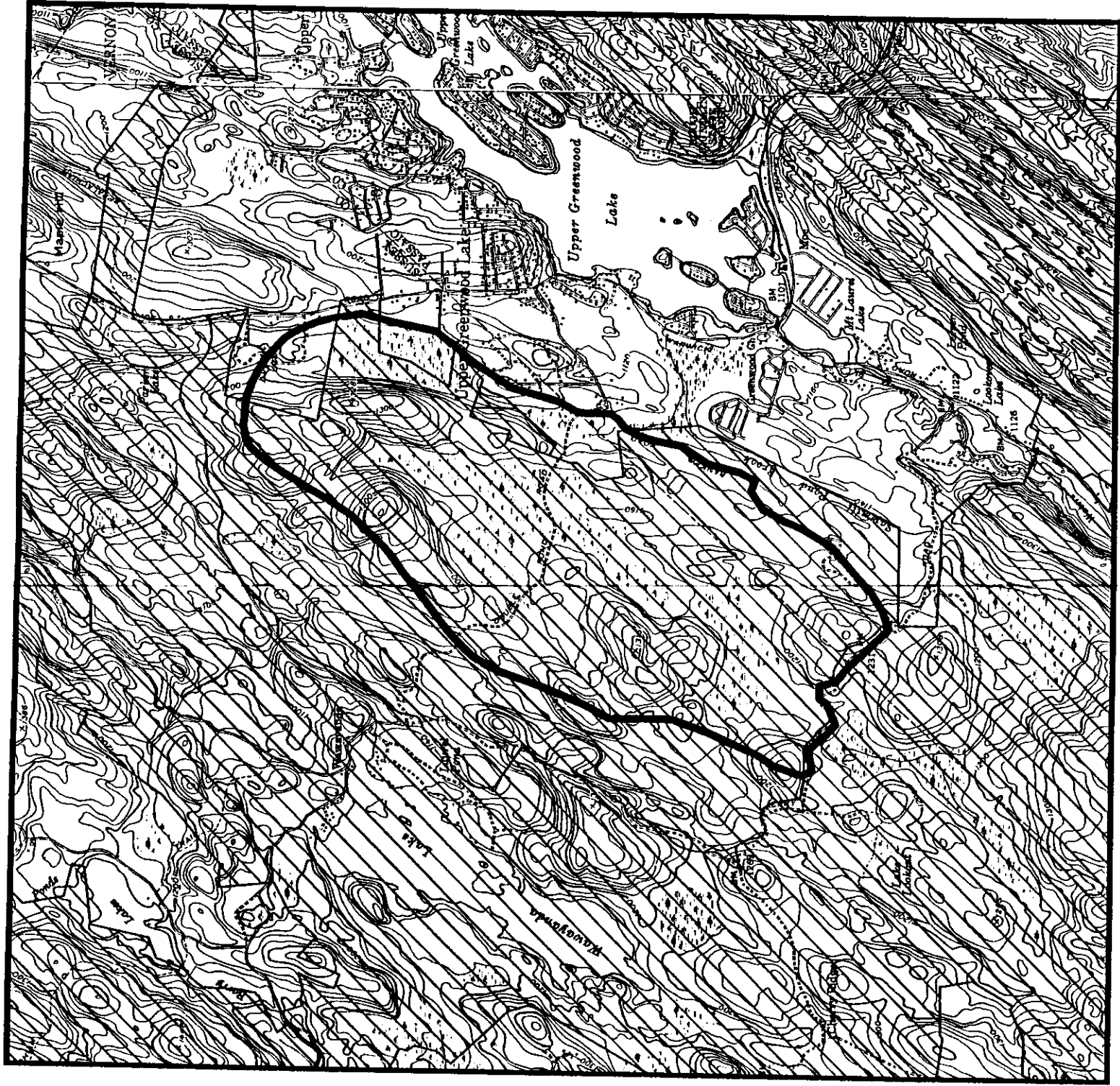
A large patch of contiguous forested land broken by the main entrance road to Wawayanda State Park and development surrounding Barry Lake.

Boundary Justification

Secondary boundaries drawn to include contiguous forested habitat for forest interior nesting raptors.

Biodiversity Rank **[B5]**

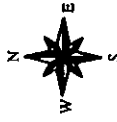
The site contains a concentration of State Endangered and Threatened forest interior nesting raptors. Also included within the macrosite are several standard sites of significance to other rare species or natural communities.



Natural Heritage Priority Site

Wawayanda Swamp

Passaic and Sussex Counties



Natural Heritage Priority Site Wawayanda Swamp

Locational Information

Quad Name: Wawayanda
County: Sussex ; Passaic
Municipality Vernon Twp ; West Milford Twp

Description of Site

A large Inland Atlantic White Cedar Swamp Natural Community surrounded by undeveloped mixed hardwood upland forests.

Boundary Justification

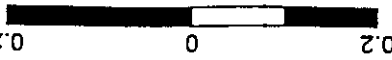
Secondary bounds drawn to include drainage basin of the cedar swamp.

Biodiversity Rank

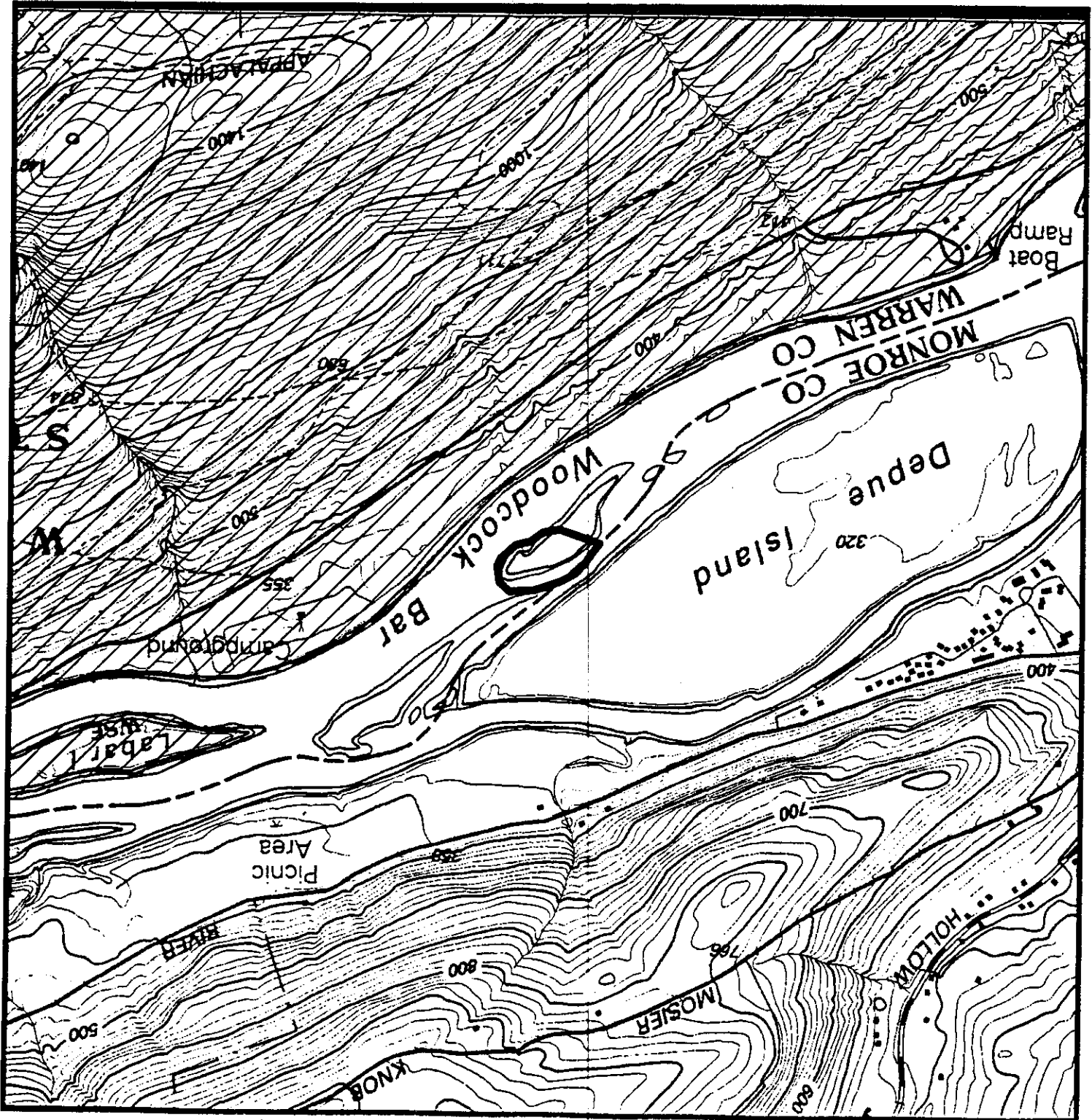
B3

The site contains a good example of a globally rare natural community and occurrences of several State Endangered and Threatened Plants and Animals.





Natural Heritage Priority Site Woodcock Bar Warren County



Natural Heritage Priority Site
Woodcock Bar

Locational Information

Quad Name: Bushkill
County: Warren
Municipality: Hardwick Twp

Description of Site

Gravelly shore of Delaware River.

Boundary Justification

Boundary drawn to include extent of rare plant habitat.

Biodiversity Rank **B5**

One special concern plant species.