### Wildlife

## A. Existing Conditions

Surveys of wildlife on and around the Concord assemblage occurred October 19 through October 21, 2004. Wildlife surveys focused on the bird, mammal, reptile, and amphibian inhabitants of the site and its surroundings. In addition to on-site wildlife surveys, database surveys of both the US Fish and Wildlife Service and NYSDEC's Natural Heritage Program were conducted by these agencies to determine if there were known records of any rare, threatened or endangered species, or significant wildlife habitats on or near the project site.

## 1. Special Concern, Rare, Threatened and Endangered Wildlife Species

A letter of inquiry was sent to the US Fish and Wildlife Service (USFWS) office in Cortland, New York, requesting information on the occurrence of endangered or threatened species, or their critical habitat in the vicinity of the project site.

A letter was also sent to the New York Natural Heritage Program requesting rare species information. In a response letter dated 26 October 2004, Betty A. Ketcham indicated that there are "no records of known occurrences of rare or state-listed animals or plants, significant natural communities, or other significant habitats, on or in the immediate vicinity of [the project site]."

No threatened or endangered amphibians or reptiles were observed during site visits by LA Group Biologists.

No rare mammals were observed during site visits by LA Group Biologists.

No rare or state-listed birds were observed during site visits by LA Group Biologists.

### 2. Birds

Using a random search method, surveys took place in designated plant communities, including beech-maple mesic forest, hemlock-northern hardwoods forest, hemlock-hardwood swamps, and successional old fields. Birds also were noted if they were observed on mowed lawns, flying overhead, or on the periphery of the study area.

Table 2-1, "Potential Bird Species of the Concord Resort Site", lists the bird species that have been observed in the region. Field surveys documented a total of 25 species of birds at the proposed project site (see Table 2-2). All species recorded are known to reside in the Catskills. Of the 24 resident species observed, all were potential breeders in the area.

The most common species observed were the Canada Goose, American Crow and Black-capped Chickadee; All three species were routinely seen on all survey dates (19, 20, 21 October 2004).

Several species were observed only once: Red-tailed Hawk, Hairy Woodpecker, and Ruby-crowned Kinglet.

# 3. Reptiles and Amphibians

On-site amphibian and reptile surveys were conducted on 19, 20, 21 October 2004. Diurnal surveys took place in designated plant community locations. Within these communities, areas of survey concentration took place in the following habitats: (1) brooks flowing through upland forests, (2) brook borders, (3) old logging roads and hiking trails, (4) pond borders, and (5) wetlands and their periphery.

Tables 3-1 and 3-2 indicate the potential reptile and amphibian species of the Concord Resort site. Two species of amphibians and no reptiles were observed during field visits at the proposed project site. These species are listed in Table 3-3. Of the 12 species reported within the Monticello quadrangle during the NYS Amphibian and Reptile Atlas Project, all were judged to be possible inhabitants of the project site.

No snake species were observed during the Concord Resort surveys.

The most common amphibian species observed was the Eastern Red-back Salamander. Salamanders of this species were found under rocks and logs in shallow water or along brook borders in intermittent rocky stream wetlands or in streams that flowed through shallow emergent marshes. One additional salamander species, the Northern Dusky Salamander was observed at the study site.

No anurans were observed in the study area, most likely due to seasonally low temperatures.

### 4. Mammals

An opportunistic survey for mammals took place on the Concord Resort site, as mammalian species were observed in conjunction with other field work performed on the site. LA Group Biologists recorded mammal observations during bird, reptile, and amphibian surveys and plant community surveys.

Opportunities to document mammals in the field often include the observation of visually detected sign (Cole et al., 1996). Mammals build structures for protection and rearing of their young (e.g., lodges, earthen mounds, leaf nests). Mammalian feeding activities also produce distinctive signs including browse on stems and branches, grass cuttings in rodent runways, and feces. Mammalian tracks are one of the most common signs used to record species presence data. Mammal surveys at the site combined records of direct observation of the animal itself with observations of visually-detected sign.

Nine mammalian species were either observed or evidenced at the proposed project site. These species are listed in Table 4-1. Common species such as the Eastern chipmunk was repeatedly observed near the trails in beech-maple mesic forest, a favored habitat of chipmunks. Both the red squirrel and the gray squirrel were often observed, as was their sign, including hemlock cone middens made by red squirrels and leaf nests constructed by gray squirrels. Eastern cottontail rabbits were observed in a mowed grass tract adjacent to a shrub swamp. Tracks and scat of Eastern coyote were also observed on the property by LA Group Biologists.

Several large beaver dams were found at the outlet of a naturally occurring pond southeast of the golf course. Current beaver activity was observed in that area as several surrounding trees were freshly gnawed. A beaver hut was observed in a flooded area adjacent to the dam.

The tracks, scat, and browse of white-tailed deer also were observed regularly, as were several individuals feeding in mowed grassy areas. On several occasions deer were observed in groups of two or three.

**Table 2-1.** Potential bird species of the Concord Resort Site (NYS Breeding Bird Atlas, 2000-2004).

Common Name	Scientific Name	

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Great Blue Heron
Green Heron
Canada Goose
American Black Duck
Wood Duck

Ardea herodias
Butorides virescens
Branta canadensis
Anas rubripes
Aix sponsa

Mallard Duck
Common Merganser

Anas platyrhynchos
Mergus merganser

Bald Eagle Haliaeetus leucocephalus

Cooper's Hawk
Red-tailed Hawk
Osprey
Pandion haliaetus
Turkey Vulture
Cathartes aura
Wild Turkey
Meleagris gallopavo
Killdeer
Charadrius vociferus

Rock Dove Columba livia
Mourning Dove Zenaida macroura

Black-billed Cuckoo Coccyzus erythropthalmus

Yellow-billed Cuckoo Coccyzus americanus
Chimney Swift Chaetura pelagica
Ruby-throated Hummingbird Archilochus colubris

Belted Kingfisher Ceryle alcyon

Red-bellied Woodpecker Melanerpes carolinus Yellow-bellied Sapsucker Sphyrapicus varius Downy Woodpecker Picoides pubescens Hairy Woodpecker Picoides villosus Colaptes auratus Northern Flicker Pileated Woodpecker Dryocopus pileatus Eastern Wood-Peewee Contopus virens Willow Flycatcher Empidonax trailli Alder Flycatcher Empidonax alnorum Least Flycatcher Empidonax minimus Eastern Phoebe Sayornis phoebe Eastern Kingbird Tyrannus tyrannus

Northern Rough-winged Swallow Stelgidopteryx serripennis

Tachycineta bicolor

Cliff Swallow

Barn Swallow

Blue Jay

American Crow

Black-capped Chickadee

Hirundo pyrrhonota

Hirundo rustica

Cyanocitta cristata

Corvus brachyrhynchos

Parus atricapillus

Tufted Titmouse

White-breasted Nuthatch

Brown Creeper

Certhia americana

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Carolina Wren Thryothorus ludovicianus

House Wren Troglodytes aedon

Eastern Bluebird Sialia sialis

Tree Swallow

Catharus fuscescens Veery Hermit Thrush Catharus guttatus Wood Thrush Hylocichla mustelina American Robin Turdus migratorius **Gray Catbird** Dumetella carolinensis Cedar Waxwing Bombycilla cedrorum **European Starling** Sturnus vulgaris Blue-headed Vireo Vireo solitarius Vireo flavifrons

Yellow-throated Vireo
Warbling Vireo
Red-eyed Vireo
Yellow Warbler
Chestnut-sided Warbler
Magnolia Warbler
Black-throated Blue Warbler
Yellow-rumped Warbler
Vireo gilvus
Vireo gilvus
Vireo olivaceus
Dendroica petechia
Dendroica pensylvanica
Dendroica magnolia
Dendroica caerulescens
Dendroica coronata

Black-throated Green Warbler Dendroica virens

## Common Name

### Scientific Name

Blackburnian Warbler
Pine Warbler
Prairie Warbler
Plack-and-white Warbler
American Redstart

Dendroica fuscu
Dendroica pinus
Dendroica discolor
Mniotilta varia
Setophaga ruticilla

Ovenbird Seiurus aurocapillus

Common Yellowthroat
Scarlet Tanager
Northern Cardinal
Rose-breasted Grosbeak

Geothlypis trichas
Piranga olivacea
Cardinalis cardinalis
Pheucticus ludovicianus

Indigo Bunting

Chipping Sparrow

Savannah Sparrow

Passerina cyanea

Spizella passerina

Passerculus passerina

Passerculus passerina

Field Sparrow
Song Sparrow
Song Sparrow
Swamp Sparrow
Dark-Eyed Junco
Red-winged Blackbird
Common Grackle
Spizella pusilla
Melospiza melodia
Melospiza georgiana
Junco hyemalis
Agelaicus phoeniceus
Quiscalus quiscula

Common Grackle

Brown-headed Cowbird

Baltimore Oriole

Quiscalus quiscula

Molothrus ater

Icterus galbula

Purple Finch Carpodacus purpureus House Finch Carpodacus mexicanus

American Goldfinch Carduelis tristis
House Sparrow Passer domesticus

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**Table 2-2.** Bird species observed October 19 through October 21, 2004 at the Concord Resort Site in the Town of Thompson, Sullivan County, New York.

Common Name

Scientific Name

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Great Blue Heron
Canada Goose
American Black Duck
Mallard Duck
Red-tailed Hawk
Wild Turkey
Downy Woodpecker
Hairy Woodpecker
Pileated Woodpecker
Pileated Woodpecker

Ardea herodias
Ardea herodias
Anas rubripes
Anas rubripes
Anas platyrhyno
Anas platyrhyno
Meleagris gallo
Picoides pubeso
Picoides villosu
Dryocopus pilea

Eastern Phoebe

Blue Jay

American Crow

Dryocopus piteatus

Sayornis phoebe

Cyanocitta cristata

Corvus brachyrhyno

Black-capped Chickadee Tufted Titmouse

White-breasted Nuthatch Brown Creeper Hermit Thrush European Starling Field Sparrow Song Sparrow

American Tree Sparrow

Dark-Eyed Junco

House Finch

Branta canadensis
Anas rubripes
Anas platyrhynchos
Buteo jamaicensis
Meleagris gallopavo
Picoides pubescens
Picoides villosus
Dryocopus pileatus
Sayornis phoebe
Cyanocitta cristata
Corvus brachyrhynchos

Parus atricapillus
Parus bicolor
Sitta carolinensis
Certhia americana
Catharus guttatus
Sturnus vulgaris
Spizella pusilla
Melospiza melodia
Spizella arborea
Junco hyemalis

Carpodacus mexicanus

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**Table 3-1**. Potential reptile and amphibian species of the Concord Resort Site based on distribution maps in Conant and Collins (1998) and Sullivan County Audubon Society.

Group	Common Name	Scientific Name
Turtles	Common Snapping Turtle	Chelydra serpentina
	Wood Turtle	Clemmys insculpta
	Painted Turtle	Chrysemys picta
	Spotted Turtle	Clemmys guttata
	Eastern Box Turtle	Terrapene carolina carolina
	Red-eared Slider	Trachemys scripta elegans
	Common Musk Turtle	Sternotherus odoratus
Snakes	Northern Water Snake	Nerodia sipedon
	Brown Snake	Storeria dekayi
	Redbelly Snake	Storeria occipitomaculata
	Common Garter Snake	Thamnophis sirtalis
	Eastern Ribbon Snake	Thamnophis sauritis
	Eastern Hognose Snake	Heterodon platirhinos
	Northern Ringneck Snake	Diadophis punctatus
	Northern Black Racer	Coluber constrictor
	Smooth Green Snake	Opheodrys vernalis
	Black Rat Snake	Elaphe obsoleta
	Milk Snake	Lampropeltis triangulum
	Timber rattlesnake	Crotalus horridus
	Northern Copperhead	Agkistrodon contortrix
Salamanders	Spotted Salamander	Ambystoma maculatum
	Jefferson Salamander	Ambystoma jeffersonianum
	Marbled Salamander	Ambystoma opacum
	Blue-spotted Salamander	Ambystoma laterale
	Eastern Red-spotted Newt	Notophthalmus viridescens
	Northern Dusky Salamander	Desmognathus fuscus
	Allegheny Mountain Dusky	, , , , , , , , , , , , , , , , , , ,
	Salamander	Desmognathus ochrophaeus
	Eastern Red-backed Salamander	Plethodon cinereus
	Slimy Salamander	Plethodon glutinosus
	Spring Salamander	Gyrinophilus porphyriticus
	Northern Red Salamander	Pseudotriton rubber ruber
	Two-lined Salamander	Eurycea bislineata
	Longtail Salamander	Eurycea longicauda
	Four-toed Salamander	Hemidactylium scutatum

Table 3-1. continued

Group	Common Name	Scientific Name
	Eastern Hellbender	Cryptobranchus alleganiensis alleganiensis
Anurans	American Toad	Bufo americanus
	Gray Treefrog	Hyla versicolor
	Spring Peeper	Pseudacris crucifer
	Bullfrog	Rana catesbeiana
	Green Frog	Rana clamitans
	Wood Frog	Rana sylvatica
	Northern Leopard Frog	Rana pipiens
	Pickerel Frog	Rana palustris

**Table 3-2.** Amphibian and reptile species recorded over the first 8 years of the New York State Herp Atlas Project (a NYSDEC-managed statewide herpetofaunal survey) in the Monticello USGS 7.5 minute topographic quadrangle.

Group	Common Name	Scientific Name
Snakes	Eastern Milk Snake	Lampropeltis triangulum triangulum
Turtles	Common Snapping Turtle	Chelydra serpentina
Salamanders	Spotted Salamander Eastern Red-spotted Newt Four-toed Salamander Northern Spring Salamander	Ambystoma maculatum Notophthalmus viridescens Hemidactylium scutatum <b>Gyrinophilus porphyriticus</b> porphyriticus
Anurans	Pickerel Frog Wood Frog Bull Frog Green Frog Spring Peeper American Toad Gray Tree Frog	Rana palustris Rana sylvatica Rana catesbeiana Rana clamitans Pseudacris crucifer Bufo americanus Hyla versicolor

**Table 3-3.** Reptile and amphibian species observed October 19 through October 21, 2004 at the Concord Resort Site in the town of Thompson, Sullivan County, New York.

Group	Common Name	Scientific Name
Salamanders	Eastern Red-back Salamander Northern Dusky Salamander	Plethodon cinereus Desmognathus fuscus

**Table 4-1.** Mammalian species observed and/or evidenced October 19 through October 21, 2004 at the Concord Resort Site in the Town of Thompson, Sullivan County, New York.

Common Name Scientific Name

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Whitetail Deer Odocoileus virginianus
Gray Squirrel Sciurus carolinensis
Red Squirrel Tamiasciurus hudsonicus

Eastern Chipmunk
Eastern Cottontail
River Otter
Lontra canadensis
Woodchuck
Marmota monax
Beaver
Castor canadensis
Eastern Coyote
Canis latrans

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- Conant, R., and J.T. Collins. 1998. A Field Guide to Reptiles and Amphibians, Eastern and Central North America, Third Edition. Houghton Mifflin Company, Boston.
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