State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
State Forestry Services
Mail Code 501-04
ONLM - Natural Heritage Program
P.O. Box 420
Trenton, NJ 08625-0420
Tel. #609-984-1339
Fax. #609-984-1427

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

January 3, 2013

Donald Donnelly
New Jersey Audubon Society
Wattles Stewardship Center
1024 Anderson Road
Port Murray, NJ 07865

Re: Sparta WMA Forest Stewardship Plan

Dear Mr. Donnelly:

Thank you for your data request regarding rare species information for the above referenced project site in Sparta, Hardyston and Jefferson Townships and Ogdensburg Borough, Sussex and Morris Counties County.

Searches of the Natural Heritage Database and the Landscape Project (Version 3.1) are based on a representation of the boundaries of your project site in our Geographic Information System (GIS). We make every effort to accurately transfer your project bounds from the topographic map(s) submitted with the Request for Data into our Geographic Information System. We do not typically verify that your project bounds are accurate, or check them against other sources.

We have checked the Landscape Project habitat mapping and the Biotics Database for occurrences of any rare wildlife species or wildlife habitat on the referenced site. The Natural Heritage Database was searched for occurrences of rare plant species or ecological communities that may be on the project site. Please refer to Table 1 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented on site. A detailed report is provided for each category coded as 'Yes' in Table 1.

We have also checked the Landscape Project habitat mapping and Biotics Database for all occurrences of rare wildlife species or wildlife habitat within one mile of the referenced site. Please refer to Table 2 (attached) to determine if any rare wildlife species or wildlife habitat are documented within one mile of the project site. Detailed reports are provided for each category coded as 'Yes' in Table 2. These reports may include species that have also been documented on the project site.

For requests submitted as part of a Flood Hazard Area Control Act (FHACA) rule application, we report records for all rare plant species and ecological communities tracked by the Natural Heritage Program that may be on your project site. (In some borderline cases these records may be described as on or in the immediate vicinity of your project site.) A subset of these plant species are also covered by the FHACA rules when the records are located within one mile of the project site. One mile searches for plant species will only report occurrences for those plant species identified under the FHACA regulations as being critically dependent on the watercourse. Please refer to Table 2 (attached) to determine if any rare plant species covered by the FHACA rules have been documented. Detailed reports are provided for each category coded as 'Yes' in Table 2. These reports may include species that have also been documented on the project site.

The Natural Heritage Program reviews its data periodically to identify priority sites for natural diversity in the State. Included as priority sites are some of the State's best habitats for rare and endangered species and ecological communities. Please refer to Tables 1 and 2 (attached) to determine if any priority sites are located on or within one mile of the project site.

A list of rare plant species and ecological communities that have been documented from Sussex and Morris Counties County can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/countylist.html. If suitable habitat is present at the project site, the species in that list have potential to be present.

Status and rank codes used in the tables and lists are defined in EXPLANATION OF CODES USED IN NATURAL HERITAGE REPORTS, which can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/nhpcodes_2010.pdf.

If you have questions concerning the wildlife records or wildlife species mentioned in this response, we recommend that you visit the interactive NJ-GeoWeb website at the following URL, http://www.state.nj.us/dep/gis/geowebsplash.htm or contact the Division of Fish and Wildlife, Endangered and Nongame Species Program at (609) 292-9400.

PLEASE SEE 'CAUTIONS AND RESTRICTIONS ON NHP DATA', which can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/newcaution2008.pdf.

Thank you for consulting the Natural Heritage Program. The attached invoice details the payment due for processing this data request. Feel free to contact us again regarding any future data requests.

Sincerely,

Robert J. Cartica
Administrator

c: NHP File No. 13-4107415-2520

Mail Code 501-04
Department of Environmental Protection
State Forestry Services
Office of Natural Lands Management
PO Box 420 Trenton, New Jersey 08625-0420
(609) 984-1339 FAX (609) 984-1427

Invoice

Invoice

DATE	INVOICE #
January 3, 2013	2520

BILL TO
New Jersey Audubon Society Wattles Stewardship Center 1024 Anderson Road Port Murray, NJ 07865

Make check payable to
Office of Natural Lands Management
and forward with a copy of this statement to
Mail Code 501-04
Office of Natural Lands Management
PO Box 420
Trenton, New Jersey 08625-0420

P.O. NO.	TERMS	PROJECT

QUANTITY (hrs.)	DESCRIPTION	RATE (per hr.)	AMOUNT
1	Charge for Natural Heritage Database search for rare species and ecological communities locational Information. Project 13-4107415-2520	$70.00	$70.00
Donald Donnelly Sparta WMA Forest Stewardship Plan		**Total**	$70.00

Table 1: On Site Data Request Search Results (7 Possible Reports)

Rare Plants/Ecological Communities Possibly On Site:	Yes
Rare Plants/Ecological Communities On Site/Immediate Vicinity:	Yes
Natural Heritage Priority Sites On Site:	Yes
Landscape 3.1 Species Based Patches On Site:	Yes
Landscape 3.1 Vernal Pool Habitat On Site:	Yes
Landscape 3.1 Stream/Mussel Habitat On Site:	No
Other Animals Tracked by ENSP On Site:	No

Possibly on Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database

Scientific Name	Common Name	Federal Protection	State Protection	Regional Status	Grank	Srank	Identified	Last Observed	Location
Vascular Plants									
Anemone cylindrica	Long-head Anemone		E	LP, HL	G5	S1	Y - Yes	2009-08-03	Located 225 feet south of intersection of Edison Road and Hawthorne Lake Road, in powerline right-of-way, 0.8 mile north-northeast of Hawthorne Lake, 1 mile southeast of Ogdensburg, in Sparta Township, Sussex County.
Desmodium cuspidatum var. cuspidatum	Toothed Tick-trefoil			HL	G5T5?	S2	Y - Yes	2009-08-03	Located 225 feet south of intersection of Edison Road and Hawthorne Lake Road, in powerline right-of-way, 0.8 mile north-northeast of Hawthorne Lake, 1 mile southeast of Ogdensburg, in Sparta Township, Sussex County.
Elymus trachycaulus	Slender Wheatgrass		E	LP, HL	G5	S1	Y - Yes	2009-08-03	CA. 0.3 MILE EAST OF HEATERS POND. 2009: Three subpopulations located between 50 and 2000 feet from intersection of powerlines over Edison Road.
Lechea intermedia var. intermedia	Large-pod Pinweed			HL	G5T4T5	S2	Y - Yes	2009-08-03	Along trail adjacent to powerline right-of-way, near building foundation, ca. 0.3 miles northwest of Edison Pond.
Phegopteris connectilis	Northern Beech Fern			HL	G5	S2		1995-07-16	From dam at Edison Pond, follow outlet stream approximately 500 feet east, before stream breaks into several branches.
Platanthera psycodes	Purple Fringed Orchid			HL	G5	S2		1995-06-27	From Edison, walk high ground east and then north along western edge of swamp approximately 0.5 mile.
Utricularia minor	Lesser Bladderwort		E	LP, HL	G5	S1	Y - Yes	2009-08-03	Located 1.5 miles southwest of Ogdensburg, 700 feet northwest of Edison (in Sussex County), 0.2 mile northwest of Edison Pond, 0.2 mile north-northeast of intersection of Edison Road and Ridge Road, in Sparta Township.

Scientific Name	Common Name	Federal Protection	State Protection	Regional Status	Grank	Srank	Identified	Last Observed	Location

Total number of records: 7

On or In the Immediate Vicinity of the Project Site Based on Search of the Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database

Scientific Name	Common Name	Federal Protection	State Protection	Regional Status	Grank	Srank	Identified	Last Observed	Location
Vascular Plants									
Carex diandra	Lesser Panicled Sedge			HL	G5	S1	Y - Yes	1938-05-21	West of Edison.

Total number of records: 1

Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.1 Species Based Patches

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection	State Protection	Grank	Srank
Amphibia								
	Jefferson Salamander	Ambystoma jeffersonianum	Occupied Habitat	2	NA	Special Concern	G4	S3
Aves								
	Bald Eagle	Haliaeetus leucocephalus	Foraging	4	NA	State Endangered	G5	S1B,S2N
	Bald Eagle	Haliaeetus leucocephalus	Nest	4	NA	State Endangered	G5	S1B,S2N
	Bald Eagle	Haliaeetus leucocephalus	Wintering	3	NA	State Threatened	G5	S1B,S2N
	Barred Owl	Strix varia	Breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Barred Owl	Strix varia	Nest	3	NA	State Threatened	G5	S2B,S2N
	Barred Owl	Strix varia	Non-breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Black-billed Cuckoo	Coccyzus erythropthalmus	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Blackburnian Warbler	Dendroica fusca	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Black-throated Blue Warbler	Dendroica caerulescens	Breeding Sighting	2	NA	Special Concern	G5	S3B

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection	State Protection	Grank	Srank
	Black-throated Green Warbler	Dendroica virens	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Blue-headed Vireo (Solitary Vireo)	Vireo solitarius	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Canada Warbler	Wilsonia canadensis	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Canada Warbler	Wilsonia canadensis	Breeding Sighting-Confirmed	2	NA	Special Concern	G5	S3B
	Cerulean Warbler	Dendroica cerulea	Breeding Sighting	2	NA	Special Concern	G4	S3B,S3N
	Cooper's Hawk	Accipiter cooperii	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Cooper's Hawk	Accipiter cooperii	Nest	2	NA	Special Concern	G5	S3B,S4N
	Golden-winged Warbler	Vermivora chrysoptera	Breeding Sighting	4	NA	State Endangered	G4	S1B,S3N
	Golden-winged Warbler	Vermivora chrysoptera	Breeding Sighting-Confirmed	4	NA	State Endangered	G4	S1B,S3N
	Great Blue Heron	Ardea herodias	Foraging	2	NA	Special Concern	G5	S3B,S4N
	Great Blue Heron	Ardea herodias	Nesting Colony	2	NA	Special Concern	G5	S3B,S4N
	Hooded Warbler	Wilsonia citrina	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Least Bittern	Ixobrychus exilis	Breeding Sighting-Confirmed	2	NA	Special Concern	G5	S3B,S3N
	Least Flycatcher	Empidonax minimus	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Northern Goshawk	Accipiter gentilis	Breeding Sighting	4	NA	State Endangered	G5	S1B,S3N

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection	State Protection	Grank	Srank
	Northern Goshawk	Accipiter gentilis	Nest	4	NA	State Endangered	G5	S1B,S3N
	Northern Parula	Parula americana	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Red-shouldered Hawk	Buteo lineatus	Breeding Sighting	4	NA	State Endangered	G5	S1B,S3N
	Red-shouldered Hawk	Buteo lineatus	Nest	4	NA	State Endangered	G5	S1B,S3N
	Red-shouldered Hawk	Buteo lineatus	Non-breeding Sighting	2	NA	Special Concern	G5	S1B,S3N
	Veery	Catharus fuscescens	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Veery	Catharus fuscescens	Breeding Sighting-Confirmed	2	NA	Special Concern	G5	S3B
	Winter Wren	Troglodytes troglodytes	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Wood Thrush	Hylocichla mustelina	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Worm-eating Warbler	Helmitheros vermivorum	Breeding Sighting	2	NA	Special Concern	G5	S3B
Insecta								
	Arrowhead Spiketail	Cordulegaster obliqua	Foraging	2	NA	Special Concern	G4	S3
	Bronze Copper	Lycaena hyllus	Nectaring	4	NA	State Endangered	G4G5	S1
	Brush-tipped Emerald	Somatochlora walshii	Foraging	2	NA	Special Concern	G5	S3

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection	State Protection	Grank	Srank
	Spatterdock Darner	Rhionaeschna mutata	Foraging	2	NA	Special Concern	G4	S3
	Williamson's Emerald	Somatochlora williamsoni	Foraging	2	NA	Special Concern	G5	S3
Mammalia								
	Bobcat	Lynx rufus	Capture Location	4	NA	State Endangered	G5	S1
	Bobcat	Lynx rufus	Live Individual Sighting	4	NA	State Endangered	G5	S1
	Bobcat	Lynx rufus	On Road	4	NA	State Endangered	G5	S1
	Bobcat	Lynx rufus	Physical evidence	4	NA	State Endangered	G5	S1
	Bobcat	Lynx rufus	Telemetry: Home Range	4	NA	State Endangered	G5	S1
	Indiana Bat	Myotis sodalis	Breeding Sighting	5	Federally Listed Endangered	State Endangered	G2	S1
	Indiana Bat	Myotis sodalis	Hibernaculum	5	Federally Listed Endangered	State Endangered	G2	S1
	Indiana Bat	Myotis sodalis	Non-breeding Sighting	5	Federally Listed Endangered	State Endangered	G2	S1
Reptilia								
	Bog Turtle	Glyptemys muhlenbergii	Occupied Habitat	5	Federally Listed Threatened	State Endangered	G3	S1

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection	State Protection	Grank	Srank
	Eastern Box Turtle	Terrapene carolina carolina	Occupied Habitat	2	NA	Special Concern	G5T5	S3
	Timber Rattlesnake	Crotalus horridus horridus	Occupied Habitat	4	NA	State Endangered	G4T4	S1
	Wood Turtle	Glyptemys insculpta	Occupied Habitat	3	NA	State Threatened	G4	S2

Vernal Pool Habitat on the Project Site Based on Search of Landscape Project 3.1

Vernal Pool Habitat Type	Vernal Pool Habitat ID
Vernal habitat area	2954
Vernal habitat area	2950
Potential vernal habitat area	2886
Potential vernal habitat area	2882
Potential vernal habitat area	2862
Potential vernal habitat area	2826

Total number of records: 6

Table 2: Within 1 Mile for FHACA Searches (6 possible reports)

Rare Plants/Ecological Communities within 1 mile:	Yes
Natural Heritage Priority Sites within 1 mile:	Yes
Landscape 3.1 Species Based Patches within 1 mile:	Yes
Landscape 3.1 Vernal Pool Habitat within 1 mile:	Yes
Landscape 3.1 Stream/Mussel Habitat within 1 mile:	No
Other Animals Tracked by ENSP within 1 mile:	Yes

Rare Plant Species Covered by the Flood Hazard Area Control Act Rule Within One Mile of the Project Site Based on Search of Natural Heritage Database

Scientific Name	Common Name	Federal Protection	State Protection	Regional Status	Grank	Srank	Identified	Last Observed
Vascular Plants								
Carex lupuliformis	Hop-like Sedge		E	LP, HL	G4	S1	Y - Yes	1996-08-08
Elymus trachycaulus	Slender Wheatgrass		E	LP, HL	G5	S1	Y - Yes	2009-08-03
Kalmia polifolia	Pale-laurel		E	LP, HL	G5	S1		1995-06-27
Potamogeton robbinsii	Robbin's Pondweed		E	LP, HL	G5	S2	Y - Yes	2009-08-03
Potamogeton robbinsii	Robbin's Pondweed		E	LP, HL	G5	S2	Y - Yes	1991-08-07
Sisyrinchium montanum	Strict Blue-eyed Grass		E	LP, HL	G5T4T5	S2	Y - Yes	2011-06-02
Solidago rigida	Prairie Goldenrod		E	LP, HL	G5T5	S1	Y - Yes	1991-10-01
Solidago rigida	Prairie Goldenrod		E	LP, HL	G5T5	S1	Y - Yes	2011-06-02
Trollius laxus ssp. laxus	Spreading Globe Flower		E	LP, HL	G5T3	S1	Y - Yes	2011-06-02

Total number of records: 9

Nonvascular Plants								
Sphagnum angustifolium	Sphagnum		E	LP, HL	G5	S1	Y - Yes	1986-03-25
Sphagnum subsecundum	Sphagnum		E	LP, HL	G5	S1	Y - Yes	1986-07-08

Total number of records: 2

Rare Wildlife Species or Wildlife Habitat Within One Mile of the Project Site Based on Search of Landscape Project 3.1 Species Based Patches

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection	State Protection	Grank	Srank
Amphibia								
	Jefferson Salamander	Ambystoma jeffersonianum	Occupied Habitat	2	NA	Special Concern	G4	S3
	Longtail Salamander	Eurycea longicauda longicauda	Occupied Habitat	3	NA	State Threatened	G5T5	S2
Aves								
	Bald Eagle	Haliaeetus leucocephalus	Foraging	4	NA	State Endangered	G5	S1B,S2N
	Bald Eagle	Haliaeetus leucocephalus	Nest	4	NA	State Endangered	G5	S1B,S2N
	Bald Eagle	Haliaeetus leucocephalus	Wintering	3	NA	State Threatened	G5	S1B,S2N
	Barred Owl	Strix varia	Breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Barred Owl	Strix varia	Nest	3	NA	State Threatened	G5	S2B,S2N
	Barred Owl	Strix varia	Non-breeding Sighting	3	NA	State Threatened	G5	S2B,S2N
	Black-billed Cuckoo	Coccyzus erythropthalmus	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Blackburnian Warbler	Dendroica fusca	Breeding Sighting	2	NA	Special Concern	G5	S3B

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection	State Protection	Grank	Srank
	Black-throated Blue Warbler	Dendroica caerulescens	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Black-throated Green Warbler	Dendroica virens	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Blue-headed Vireo (Solitary Vireo)	Vireo solitarius	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Broad-winged Hawk	Buteo platypterus	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Brown Thrasher	Toxostoma rufum	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Canada Warbler	Wilsonia canadensis	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Canada Warbler	Wilsonia canadensis	Breeding Sighting-Confirmed	2	NA	Special Concern	G5	S3B
	Cerulean Warbler	Dendroica cerulea	Breeding Sighting	2	NA	Special Concern	G4	S3B,S3N
	Cooper's Hawk	Accipiter cooperii	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Cooper's Hawk	Accipiter cooperii	Nest	2	NA	Special Concern	G5	S3B,S4N
	Golden-winged Warbler	Vermivora chrysoptera	Breeding Sighting	4	NA	State Endangered	G4	S1B,S3N
	Golden-winged Warbler	Vermivora chrysoptera	Breeding Sighting-Confirmed	4	NA	State Endangered	G4	S1B,S3N
	Great Blue Heron	Ardea herodias	Foraging	2	NA	Special Concern	G5	S3B,S4N

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection	State Protection	Grank	Srank
	Great Blue Heron	Ardea herodias	Nesting Colony	2	NA	Special Concern	G5	S3B,S4N
	Hooded Warbler	Wilsonia citrina	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Least Bittern	Ixobrychus exilis	Breeding Sighting-Confirmed	2	NA	Special Concern	G5	S3B,S3N
	Least Flycatcher	Empidonax minimus	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Northern Goshawk	Accipiter gentilis	Breeding Sighting	4	NA	State Endangered	G5	S1B,S3N
	Northern Goshawk	Accipiter gentilis	Nest	4	NA	State Endangered	G5	S1B,S3N
	Northern Parula	Parula americana	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Pied-billed Grebe	Podilymbus podiceps	Breeding Sighting-Confirmed	4	NA	State Endangered	G5	S1B,S3N
	Red-shouldered Hawk	Buteo lineatus	Breeding Sighting	4	NA	State Endangered	G5	S1B,S3N
	Red-shouldered Hawk	Buteo lineatus	Nest	4	NA	State Endangered	G5	S1B,S3N
	Red-shouldered Hawk	Buteo lineatus	Non-breeding Sighting	2	NA	Special Concern	G5	S1B,S3N
	Veery	Catharus fuscescens	Breeding Sighting	2	NA	Special Concern	G5	S3B

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection	State Protection	Grank	Srank
	Veery	Catharus fuscescens	Breeding Sighting-Confirmed	2	NA	Special Concern	G5	S3B
	Whip-poor-will	Caprimulgus vociferus	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Winter Wren	Troglodytes troglodytes	Breeding Sighting	2	NA	Special Concern	G5	S3B,S4N
	Wood Thrush	Hylocichla mustelina	Breeding Sighting	2	NA	Special Concern	G5	S3B
	Worm-eating Warbler	Helmitheros vermivorum	Breeding Sighting	2	NA	Special Concern	G5	S3B
Insecta								
	Arrowhead Spiketail	Cordulegaster obliqua	Foraging	2	NA	Special Concern	G4	S3
	Bronze Copper	Lycaena hyllus	Nectaring	4	NA	State Endangered	G4G5	S1
	Brush-tipped Emerald	Somatochlora walshii	Foraging	2	NA	Special Concern	G5	S3
	Harris' Checkerspot	Chlosyne harrisii	Casual Flyby	2	NA	Special Concern	G4	S3
	Spatterdock Darner	Rhionaeschna mutata	Foraging	2	NA	Special Concern	G4	S3
	Williamson's Emerald	Somatochlora williamsoni	Foraging	2	NA	Special Concern	G5	S3
Mammalia								
	Bobcat	Lynx rufus	Capture Location	4	NA	State Endangered	G5	S1

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection	State Protection	Grank	Srank
	Bobcat	Lynx rufus	Live Individual Sighting	4	NA	State Endangered	G5	S1
	Bobcat	Lynx rufus	On Road	4	NA	State Endangered	G5	S1
	Bobcat	Lynx rufus	Physical evidence	4	NA	State Endangered	G5	S1
	Bobcat	Lynx rufus	Telemetry: Home Range	4	NA	State Endangered	G5	S1
	Indiana Bat	Myotis sodalis	Breeding Sighting	5	Federally Listed Endangered	State Endangered	G2	S1
	Indiana Bat	Myotis sodalis	Hibernaculum	5	Federally Listed Endangered	State Endangered	G2	S1
	Indiana Bat	Myotis sodalis	Non-breeding Sighting	5	Federally Listed Endangered	State Endangered	G2	S1
Reptilia								
	Bog Turtle	Glyptemys muhlenbergii	Occupied Habitat	5	Federally Listed Threatened	State Endangered	G3	S1
	Eastern Box Turtle	Terrapene carolina carolina	Occupied Habitat	2	NA	Special Concern	G5T5	S3
	Northern Copperhead	Agkistrodon contortrix mokasen	Occupied Habitat	2	NA	Special Concern	G5T5	S3
	Timber Rattlesnake	Crotalus horridus horridus	Occupied Habitat	4	NA	State Endangered	G4T4	S1
	Wood Turtle	Glyptemys insculpta	Occupied Habitat	3	NA	State Threatened	G4	S2

Vernal Pool Habitat
Within One Mile of the Project Site
Based on Search of
Landscape Project 3.1

Vernal Pool Habitat Type	Vernal Pool Habitat ID
Vernal habitat area	2789
Vernal habitat area	2894
Vernal habitat area	2950
Vernal habitat area	2954
Vernal habitat area	2974
Potential vernal habitat a	2776
Potential vernal habitat a	2787
Potential vernal habitat a	2791
Potential vernal habitat a	2805
Potential vernal habitat a	2809
Potential vernal habitat a	2814
Potential vernal habitat a	2821
Potential vernal habitat a	2826
Potential vernal habitat a	2832
Potential vernal habitat a	2838
Potential vernal habitat a	2859
Potential vernal habitat a	2862

Vernal Pool Habitat Type	Vernal Pool Habitat ID
Potential vernal habitat a	2882
Potential vernal habitat a	2886
Potential vernal habitat a	2896
Potential vernal habitat a	2916
Potential vernal habitat a	2949
Potential vernal habitat a	2951
Potential vernal habitat a	2970
Potential vernal habitat a	2980
Potential vernal habitat a	3017
Potential vernal habitat a	3029
Potential vernal habitat a	3030

Total number of records: 28

Other Animal Species
Within One Mile of the Project Site Based on
Additional Species Tracked by
Endangered and Nongame Species Program

Scientific Name	Common Name	Federal Protection Status	State Protection Status	Grank	Srank
Animal Assemblages					
Bat Colony	Bat Hibernaculum			GNR	S2
Total number of records: 1					
Vertebrate Animals					
Rallus limicola	Virginia Rail			G5	S3B
Rallus limicola	Virginia Rail			G5	S3B
Total number of records: 2					