

THREATENED & ENDANGERED SPECIES

Relict Trillium (*Trillium reliquum*)

General Information

- Project location
- Description of proposed action
 - Construction time frames if known
- Date(s) site visit was performed
- Habitat(s) present within project corridor
 - Dominant vegetation present

Black Spored Quillwort (*Isoetes melanospora*)



Species List

- 2013 list can be found at <http://www.fws.gov/charleston/endangeredSpecies.html>
- Common Name
- Scientific Name
- Threatened or Endangered Status
- Critical Habitat

Helianthus atrorubens – similar to Schweinitz's sunflower (*Helianthus schweinitzii*)

For each species listed include:

- Habitat Description
 - Is this habitat present within the project corridor?
- Are there any records of the species within the project corridor?
- Was the species seen during the site visit?
- Other information that may be necessary
 - Plants
 - Flowering period
 - Fruiting period
 - Animals
 - Nesting period
 - Migratory – include months the species may be found in SC

Red-cockaded woodpecker
(*Picoides borealis*) nesting tree

**OPTIMAL SURVEY WINDOWS FOR SOUTH CAROLINA'S
FEDERALLY THREATENED, ENDANGERED, AND CANDIDATE PLANT SPECIES**

SCIENTIFIC NAME	COMMON NAME	STATUS	SURVEY WINDOW
<i>Amaranthus pumilus</i>	Seabeach amaranth	T	July–October
<i>Amphianthus pusillus</i>	Little amphianthus or Pool sprite	T	late March–April
<i>Aster georgianus</i>	Georgia aster	C	early October–mid November
<i>Echinacea laevigata</i>	Smooth coneflower	E	late May–October
<i>Gymnoderma lineare</i>	Rock gnome lichen	E	year round
<i>Helianthus schweinitzii</i>	Schweinitz's sunflower	E	late August–October
<i>Helonias bullata</i>	Swamp pink	T	April–May
<i>Hexastylis naniflora</i>	Dwarf-flowered heartleaf	T	March–May
<i>Isoetes melanospora</i>	Black spored quillwort	E	May–October
<i>Isonia medeoloides</i>	Small whorled pogonia	T	mid May–early July
<i>Lindera melissifolia</i>	Pondberry	E	February–March
<i>Lysimachia asperulaefolia</i>	Rough-leaved loosestrife	E	mid May–June
<i>Oxypolis canbyi</i>	Canby's dropwort	E	mid August–September
<i>Narthecium americanum</i>	Bog asphodel	C	June–July
<i>Platanthera integrilabia</i>	White fringeless orchid	C	late July–October
<i>Prilimnium nodosum</i>	Harperella	E	July–October in periods of low water
<i>Rhus michauxii</i>	Michaux's sumac	E	May–October
<i>Ribes echinellum</i>	Miccosukee gooseberry	T	November–July
<i>Sagittaria fasciculata</i>	Bunched arrowhead	E	mid May–July
<i>Sarracenia rubra ssp. jonesii</i>	Mountain sweet pitcher-plant	E	April–October
<i>Schwalbea americana</i>	American chaffseed	E	May–August (1–2 months after a fire)
<i>Sizyrinchium dichotomum</i>	White irisette or Reflexed blue eyed grass	E	late May–July
<i>Trillium persistens</i>	Persistent trillium	E	early March–mid April
<i>Trillium reliquum</i>	Relict trillium	E	mid March–April

These recommended survey windows were determined from species recovery plans and field observations.

For additional information about these species, please visit the U.S. Fish and Wildlife Service web page at <http://endangered.fws.gov>.

STATUS KEY:

- E Federally endangered
- T Federally threatened
- C The U.S. Fish and Wildlife Service or the National Marine Fisheries Service has on file sufficient information on biological vulnerability and threat(s) to support proposals to list these species

**OCCURANCES OF FEDERALLY THREATENED, ENDANGERED, AND CANDIDATE
ANIMAL SPECIES IN SOUTH CAROLINA**

SCIENTIFIC NAME	COMMON NAME	STATUS	TIME PERIOD	COMMENTS
<i>Acipenser brevirostrum</i>	Shortnose sturgeon*	E	February 1 – April 30	Spawning migration
<i>Acipenser oxyrinchus</i>	Atlantic sturgeon*	E	February 1 – April 30	Spawning migration
<i>Ambystoma cingulatum</i>	Frosted flatwoods salamander	T, CH	January 1 – April 30	Larvae present in breeding ponds
<i>Balaena glacialis</i>	Right whale*	E	November 1 – April 30	Off the coast
<i>Balaenoptera physalus</i>	Finback whale*	E	November 1 – April 30	Off the coast
<i>Calidris canutus rufa</i>	Red knot	C	August 1 – May 31	Migration and wintering
<i>Caretta caretta</i>	Loggerhead sea turtle**	T	May 1 – October 31	Nesting and hatching
<i>Charadrius melodus</i>	Piping plover	T, CH	July 15 – May 1	Migration and wintering
<i>Chelonia mydas</i>	Green sea turtle**	T	May 1 – October 31	Nesting and hatching
<i>Clemmys muhlenbergii</i>	Bog turtle	T, S/A	April 15 – September 15	Active period
<i>Gopherus polyphemus</i>	Gopher tortoise	C	April 1 – October 31	Active period
<i>Dermochelys coriacea</i>	Leatherback sea turtle**	E	May 1 – October 31	Nesting and hatching
<i>Haliaeetus leucocephalus</i>	Bald eagle	BGEPA	October 1 – May 15	Nesting season
<i>Lasmigona decorada</i>	Carolina heelsplitter	E, CH	March 1 – September 30	Optimal survey window
<i>Lepidochelys kempii</i>	Kemp's ridley sea turtle**	E	May 1 – October 31	In coastal waters
<i>Megaptera novaengliae</i>	Humpback whale*	E	January 1 – March 31	Migration off the coast
<i>Mycteria americana</i>	Wood stork	E	February 15 – September 1	Nesting season
<i>Picoides borealis</i>	Red-cockaded woodpecker	E	April 1 – July 31	Nesting season
<i>Trichechus manatus</i>	West Indian manatee	E	May 15 – October 15	In coastal waters
<i>Vermivora bachmanii</i>	Bachman's warbler	E	May 1 – June 15	Breeding

E Federally endangered

T Federally threatened

P Proposed in the Federal Register

CH Critical Habitat

C The U.S. Fish and Wildlife Service or the National Marine Fisheries Service has on file sufficient information on biological vulnerability and threat(s) to support proposals to list these species

S/A Federally protected due to similarity of appearance to a listed species

* Contact the National Marine Fisheries Service for more information on this species

** The U.S. Fish and Wildlife Service and the National Marine Fisheries Service share jurisdiction of this species

BGEPA Federally protected under the Bald and Golden Eagle Protection Act

For additional information about these species, please visit the U.S. Fish and Wildlife Service web page at <http://endangered.fws.gov>.

EFFECTS

- ONE OF THESE FOUR DETERMINATIONS MUST BE MADE FOR EACH SPECIES:
 - NO EFFECT
 - NOT LIKELY TO ADVERSELY AFFECT
 - LIKELY TO ADVERSELY AFFECT
 - LIKELY TO BENEFIT