



U.S. Fish and Wildlife Service

Trust Resources List

This resource list is to be used for planning purposes only — it is not an official species list.

Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:

South Florida Ecological Services Field Office
1339 20TH STREET
VERO BEACH, FL 32960
(772) 562-3909
<http://fws.gov/verobeach>

Project Name:

Turkey Point

Project Counties:

Miami-Dade, FL

Project Type:

Power Generation

Endangered Species Act Species List ([USFWS Endangered Species Program](#)).

There are a total of **51** threatened, endangered, or candidate species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fishes may appear on the species list because a project could cause downstream effects on the species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section below for critical habitat that lies within your project area. Please contact the designated FWS office if you have questions.

Species that should be considered in an effects analysis for your project:

Birds	Status		Has Critical Habitat	Contact
-------	--------	--	----------------------	---------



Trust Resources List

Audubon's Crested caracara (<i>Polyborus plancus audubonii</i>) Population: FL pop.	Threatened	species info		South Florida Ecological Services Field Office
Bachman's warbler (<i>Vermivora bachmanii</i>) Population: Entire	Endangered	species info		South Florida Ecological Services Field Office
Cape Sable Seaside sparrow (<i>Ammodramus maritimus mirabilis</i>) Population: Entire	Endangered	species info	Final designated critical habitat	South Florida Ecological Services Field Office
Everglade Snail kite (<i>Rostrhamus sociabilis plumbeus</i>) Population: FL pop.	Endangered	species info	Final designated critical habitat	South Florida Ecological Services Field Office
Florida Grasshopper sparrow (<i>Ammodramus savannarum floridanus</i>) Population: Entire	Endangered	species info		South Florida Ecological Services Field Office
Florida scrub-jay (<i>Aphelocoma coerulescens</i>) Population: Entire	Threatened	species info		South Florida Ecological Services Field Office
Ivory-Billed woodpecker (<i>Campephilus principalis</i>) Population: Entire	Endangered	species info		South Florida Ecological Services Field Office
Kirtland's Warbler (<i>Setophaga kirtlandii</i>) Population: Entire	Endangered	species info		South Florida Ecological Services Field Office
Piping Plover (<i>Charadrius melodus</i>) Population: except Great Lakes watershed	Threatened	species info	Final designated critical habitat Final designated critical habitat	South Florida Ecological Services Field Office
Red Knot (<i>Calidris canutus rufa</i>)	Proposed Threatened	species info		South Florida Ecological Services Field Office



Trust Resources List

Red-Cockaded woodpecker (<i>Picoides borealis</i>) Population: Entire	Endangered	species info		South Florida Ecological Services Field Office
Wood stork (<i>Mycteria americana</i>) Population: AL, FL, GA, MS, NC, SC	Threatened	species info		South Florida Ecological Services Field Office
Corals				
Elkhorn coral (<i>Acropora palmata</i>)	Threatened	species info	Final designated critical habitat	South Florida Ecological Services Field Office
Staghorn coral (<i>Acropora cervicornis</i>)	Threatened	species info	Final designated critical habitat	South Florida Ecological Services Field Office
Ferns and Allies				
Florida Bristle fern (<i>Trichomanes punctatum ssp. floridanum</i>)	Candidate	species info		South Florida Ecological Services Field Office
Fishes				
Atlantic sturgeon (<i>Acipenser oxyrinchus</i>) Population: Entire	Threatened	species info	Final designated critical habitat	South Florida Ecological Services Field Office
Smalltooth sawfish (<i>Pristis pectinata</i>) Population: United States DPS	Endangered	species info		South Florida Ecological Services Field Office
Flowering Plants				
Beach jacquemontia (<i>Jacquemontia reclinata</i>)	Endangered	species info		South Florida Ecological Services Field Office
Blodgett's silverbush (<i>Argythamnia blodgettii</i>)	Candidate	species info		South Florida Ecological Services Field Office



Trust Resources List

Cape Sable Thoroughwort (<i>Chromolaena frustrata</i>)	Endangered	species info	Final designated critical habitat	South Florida Ecological Services Field Office
Carter's Small-Flowered flax (<i>Linum carteri carteri</i>)	Endangered	species info	Proposed critical habitat	South Florida Ecological Services Field Office
Carter's mustard (<i>Warea carteri</i>)	Endangered	species info		South Florida Ecological Services Field Office
Crenulate lead-plant (<i>Amorpha crenulata</i>)	Endangered	species info		South Florida Ecological Services Field Office
Deltoid spurge (<i>Chamaesyce deltoidea ssp. deltoidea</i>)	Endangered	species info		South Florida Ecological Services Field Office
Everglades bully (<i>Sideroxylon reclinatum ssp. austrofloridense</i>)	Candidate	species info		South Florida Ecological Services Field Office
Florida Pineland crabgrass (<i>Digitaria pauciflora</i>)	Candidate	species info		South Florida Ecological Services Field Office
Florida Semaphore Cactus (<i>Consolea corallicola</i>)	Endangered	species info		South Florida Ecological Services Field Office
Florida brickell-bush (<i>Brickellia mosieri</i>)	Endangered	species info	Proposed critical habitat	South Florida Ecological Services Field Office
Florida prairie-clover (<i>Dalea carthagenensis floridana</i>)	Candidate	species info		South Florida Ecological Services Field Office
Garber's spurge (<i>Chamaesyce garberi</i>)	Threatened	species info		South Florida Ecological Services Field Office



Trust Resources List

Johnson's seagrass (<i>Halophila johnsonii</i>)	Threatened	species info	Final designated critical habitat	South Florida Ecological Services Field Office
Okeechobee gourd (<i>Cucurbita okeechobeensis ssp. okeechobeensis</i>)	Endangered	species info		South Florida Ecological Services Field Office
pineland sandmat (<i>Chamaesyce deltoidea pinetorum</i>)	Candidate	species info		South Florida Ecological Services Field Office
Sand flax (<i>Linum arenicola</i>)	Candidate	species info		South Florida Ecological Services Field Office
Small's milkpea (<i>Galactia smallii</i>)	Endangered	species info		South Florida Ecological Services Field Office
Tiny polygala (<i>Polygala smallii</i>)	Endangered	species info		South Florida Ecological Services Field Office
Insects				
Bartram's Hairstreak Butterfly (<i>Strymon acis bartrami</i>) Population:	Endangered	species info		South Florida Ecological Services Field Office
Florida Leafwing Butterfly (<i>Anaea troglodyta floralis</i>) Population:	Endangered	species info		South Florida Ecological Services Field Office
Miami Blue Butterfly (<i>Cyclargus (=hemiargus) thomasi bethunebakeri</i>)	Endangered	species info		South Florida Ecological Services Field Office
Schaus Swallowtail butterfly (<i>Heracles aristodemus ponceanus</i>) Population: Entire	Endangered	species info		South Florida Ecological Services Field Office
Mammals				



Trust Resources List

Florida Bonneted bat (<i>Eumops floridanus</i>)	Endangered	species info		South Florida Ecological Services Field Office
Florida panther (<i>Puma (=felis) concolor coryi</i>) Population:	Endangered	species info		South Florida Ecological Services Field Office
puma (<i>Puma (=felis) concolor (all subsp. except coryi)</i>) Population: FL	Similarity of Appearance (Threatened)	species info		South Florida Ecological Services Field Office
West Indian Manatee (<i>Trichechus manatus</i>) Population: Entire	Endangered	species info	Final designated critical habitat	South Florida Ecological Services Field Office
Reptiles				
American alligator (<i>Alligator mississippiensis</i>) Population: Entire	Similarity of Appearance (Threatened)	species info		South Florida Ecological Services Field Office
American crocodile (<i>Crocodylus acutus</i>) Population: FL pop.	Threatened	species info	Final designated critical habitat	South Florida Ecological Services Field Office
Eastern Indigo snake (<i>Drymarchon corais couperi</i>) Population: Entire	Threatened	species info		South Florida Ecological Services Field Office
Green sea turtle (<i>Chelonia mydas</i>) Population: FL, Mexico nesting pops.	Endangered	species info		South Florida Ecological Services Field Office
Hawksbill sea turtle (<i>Eretmochelys imbricata</i>) Population: Entire	Endangered	species info	Final designated critical habitat	South Florida Ecological Services Field Office
Leatherback sea turtle (<i>Dermochelys coriacea</i>) Population: Entire	Endangered	species info	Final designated critical habitat	South Florida Ecological Services Field Office
Snails				



Trust Resources List

Stock Island Tree snail (<i>Orthalicus reses</i>) Population: Entire	Threatened	species info	South Florida Ecological Services Field Office
--	------------	------------------------------	--

Critical habitats within your project area: ([View all critical habitats within your project area on one map](#))

The following critical habitats lie fully or partially within your project area.

Birds	Critical Habitat Type
Cape Sable Seaside sparrow (<i>Ammodramus maritimus mirabilis</i>) Population: Entire	Final designated critical habitat
Everglade Snail kite (<i>Rostrhamus sociabilis plumbeus</i>) Population: FL pop.	Final designated critical habitat
Corals	
Elkhorn coral (<i>Acropora palmata</i>)	Final designated critical habitat
Staghorn coral (<i>Acropora cervicornis</i>)	Final designated critical habitat
Flowering Plants	
Cape Sable Thoroughwort (<i>Chromolaena frustrata</i>)	Final designated critical habitat
Carter's Small-Flowered flax (<i>Linum carteri carteri</i>)	Proposed critical habitat
Florida brickell-bush (<i>Brickellia mosieri</i>)	Proposed critical habitat
Johnson's seagrass (<i>Halophila johnsonii</i>)	Final designated critical habitat
Mammals	
West Indian Manatee (<i>Trichechus manatus</i>) Population: Entire	Final designated critical habitat
Reptiles	
American crocodile (<i>Crocodylus acutus</i>) Population: FL pop.	Final designated critical habitat

FWS National Wildlife Refuges ([USFWS National Wildlife Refuges Program](#)).

There are no refuges found within the vicinity of your project.



Trust Resources List

FWS Migratory Birds (USFWS Migratory Bird Program).

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

For information about Birds of Conservation Concern, go to <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BCC.html>.

Migratory birds of concern that may be affected by your project:

There are 27 birds on your Migratory birds of concern list. The Division of Migratory Bird Management is in the process of populating migratory bird data with an estimated completion time of Fall 2014; therefore, the list below may not include all the migratory birds of concern in your project area at this time. While this information is being populated, please contact the Field Office for information about migratory birds in your project area.

Species Name	Bird of Conservation Concern (BCC)	Species Profile	Seasonal Occurrence in Project Area
American Flamingo (<i>Phoenicopterus ruber</i>)	Yes	species info	Wintering
American Kestrel (<i>Falco sparverius ssp. paulus</i>)	Yes	species info	Year-round
American Oystercatcher (<i>Haematopus palliatus</i>)	Yes	species info	Year-round
American bittern (<i>Botaurus lentiginosus</i>)	Yes	species info	Wintering
Audubon's Shearwater (<i>Puffinus lherminieri</i>)	Yes	species info	Wintering



Trust Resources List

Bald eagle (<i>Haliaeetus leucocephalus</i>)	Yes	species info	Year-round
Black Skimmer (<i>Rynchops niger</i>)	Yes	species info	Year-round
Black rail (<i>Laterallus jamaicensis</i>)	Yes	species info	Breeding
Black-whiskered Vireo (<i>Vireo altiloquus</i>)	Yes	species info	Breeding
Brown Booby (<i>Sula leucogaster</i>)	Yes	species info	Wintering
Chuck-will's-widow (<i>Caprimulgus carolinensis</i>)	Yes	species info	Year-round
Common Ground-Dove (<i>Columbina passerina ssp. exigua</i>)	Yes	species info	Year-round
Least Bittern (<i>Ixobrychus exilis</i>)	Yes	species info	Year-round
Lesser Yellowlegs (<i>Tringa flavipes</i>)	Yes	species info	Wintering
Magnificent Frigatebird (<i>Fregata magnificens</i>)	Yes	species info	Year-round
Mangrove Cuckoo (<i>Coccyzus minor</i>)	Yes	species info	Breeding
Marbled Godwit (<i>Limosa fedoa</i>)	Yes	species info	Wintering
Red-throated Loon (<i>Gavia stellata</i>)	Yes	species info	Wintering
Roseate Spoonbill (<i>Platalea ajaja</i>)	Yes	species info	Year-round
Short-billed Dowitcher (<i>Limnodromus griseus</i>)	Yes	species info	Wintering
Smooth-Billed ani (<i>Crotophaga ani</i>)	Yes	species info	Year-round
Snowy Plover (<i>Charadrius alexandrinus</i>)	Yes	species info	Breeding
Solitary Sandpiper (<i>Tringa solitaria</i>)	No	species info	Wintering
Swainson's Warbler (<i>Limnothlypis swainsonii</i>)	Yes	species info	Migrating
Worm eating Warbler (<i>Helmitheros vermivorum</i>)	Yes	species info	Migrating
Yellow Rail (<i>Coturnicops noveboracensis</i>)	Yes	species info	Wintering



Trust Resources List

Yellow Warbler (<i>Dendroica petechia ssp. gundlachi</i>)	Yes	species info	Breeding
---	-----	------------------------------	----------

NWI Wetlands ([USFWS National Wetlands Inventory](#)).

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

Data Limitations, Exclusions and Precautions

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Exclusions - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.



Trust Resources List

Precautions - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

The following wetland types intersect your project area in one or more locations:

Wetland Types	NWI Classification Code	Total Acres
Estuarine and Marine Deepwater	E1UBLx	4951.8118
Estuarine and Marine Deepwater	E1ABL	0.5293
Estuarine and Marine Deepwater	E1UBL	124.5206
Estuarine and Marine Wetland	E2US/SS3N	30.5373
Estuarine and Marine Wetland	E2USP	5.7002
Estuarine and Marine Wetland	E2USN	35.4782
Estuarine and Marine Wetland	E2USM	72.1991
Estuarine and Marine Wetland	E2SS3N	103.8865
Estuarine and Marine Wetland	E2SS3P	15.2118
Estuarine and Marine Wetland	E2EM1/US2P	12.5832
Estuarine and Marine Wetland	E2SS3U	166.4926
Estuarine and Marine Wetland	E2US6M	104.1746
Estuarine and Marine Wetland	E2SS3Ud	394.769
Estuarine and Marine Wetland	M2USN	87.7609
Estuarine and Marine Wetland	E2FO4/3Pd	96.0951
Estuarine and Marine Wetland	E2US3M	488.4383
Estuarine and Marine Wetland	E2SS3Pd	46.4336
Estuarine and Marine Wetland	E2FO3U	350.9285
Estuarine and Marine Wetland	E2FO3P	7.0782



Trust Resources List

Estuarine and Marine Wetland	E2FO3N	32.2123
Estuarine and Marine Wetland	E2SS3/USP	291.0664
Freshwater Emergent Wetland	PEM5/6F	14.8079
Freshwater Emergent Wetland	PEM1C	485.4427
Freshwater Emergent Wetland	PEM1A	1802.7449
Freshwater Emergent Wetland	PEM5Eh	18.4775
Freshwater Emergent Wetland	PEM1/FO3A	180.5909
Freshwater Emergent Wetland	PEM5Fh	4725.6475
Freshwater Emergent Wetland	PEM5/1Fh	10.5973
Freshwater Emergent Wetland	PEM1Ad	1601.8276
Freshwater Emergent Wetland	PEM5Ch	7016.5293
Freshwater Emergent Wetland	PEM1/SS3Ad	5.1147
Freshwater Emergent Wetland	PEM5C	1725.8435
Freshwater Emergent Wetland	PEM5A	4663.207
Freshwater Emergent Wetland	PEM3/1C	3.9359
Freshwater Emergent Wetland	PEMCx	3.609
Freshwater Emergent Wetland	PEM5H	2.2708
Freshwater Emergent Wetland	PEM1/SS3A	337.5112
Freshwater Emergent Wetland	PEM5F	37761.8208
Freshwater Emergent Wetland	PEM1/SS3C	2201.4454
Freshwater Forested/Shrub Wetland	PSS3/EM5Fh	6.848
Freshwater Forested/Shrub Wetland	PSS1Fh	280.9367
Freshwater Forested/Shrub Wetland	PSS3B	207.1927
Freshwater Forested/Shrub Wetland	PSS3A	199.1097
Freshwater Forested/Shrub Wetland	PSS3/1Bh	6.3421
Freshwater Forested/Shrub Wetland	PSS3C	31.2334



Trust Resources List

Freshwater Forested/Shrub Wetland	PFO2/SS3Eh	4.2112
Freshwater Forested/Shrub Wetland	PFO2/SS3Fh	48.6827
Freshwater Forested/Shrub Wetland	PSS3/1Ch	52.2392
Freshwater Forested/Shrub Wetland	PSS2/EM5Ch	17.6419
Freshwater Forested/Shrub Wetland	PSS1/3Ch	78.4794
Freshwater Forested/Shrub Wetland	PFO2Ch	4.349
Freshwater Forested/Shrub Wetland	PSS3Fh	3.1458
Freshwater Forested/Shrub Wetland	PSS1/EM5Ch	134.226
Freshwater Forested/Shrub Wetland	PFO3/1C	2.7098
Freshwater Forested/Shrub Wetland	PFO3/1A	58.2195
Freshwater Forested/Shrub Wetland	PFO/SS3A	70.6643
Freshwater Forested/Shrub Wetland	PFO/SS3C	14.5744
Freshwater Forested/Shrub Wetland	PFO2/EM5Ch	53.9026
Freshwater Forested/Shrub Wetland	PSS3/EM1A	27.9625
Freshwater Forested/Shrub Wetland	PSS1/3C	51.9706
Freshwater Forested/Shrub Wetland	PSS3/1F	3.1791
Freshwater Forested/Shrub Wetland	PFO3/SS1A	9.2847
Freshwater Forested/Shrub Wetland	PSS1/EM5C	112.1203
Freshwater Forested/Shrub Wetland	PFO3A	934.3475
Freshwater Forested/Shrub Wetland	PFO3/SS1C	11.5968
Freshwater Forested/Shrub Wetland	PSS1/EM5F	39.464
Freshwater Forested/Shrub Wetland	PSS1/EM5Fh	285.826
Freshwater Forested/Shrub Wetland	PSS3Ch	96.909
Freshwater Forested/Shrub Wetland	PFO3B	36.0242
Freshwater Forested/Shrub Wetland	PFO/SS3Ch	4.4458
Freshwater Forested/Shrub Wetland	PFO3C	1.5518



Trust Resources List

Freshwater Forested/Shrub Wetland	PFO3/EM1A	74.6799
Freshwater Forested/Shrub Wetland	PFO3Ah	18.2635
Freshwater Forested/Shrub Wetland	PSS3/1C	172.404
Freshwater Forested/Shrub Wetland	PFO2/EM5F	14.2725
Freshwater Forested/Shrub Wetland	PFO3Ax	0.5001
Freshwater Forested/Shrub Wetland	PFO2C	6.6163
Freshwater Forested/Shrub Wetland	PFO2F	35.1811
Freshwater Forested/Shrub Wetland	PFO2/SS3C	119.0884
Freshwater Forested/Shrub Wetland	PSS3/EM5C	51.8228
Freshwater Forested/Shrub Wetland	PSS3/1Fh	8.2815
Freshwater Forested/Shrub Wetland	PSS3/EM5Ch	131.1041
Freshwater Forested/Shrub Wetland	PFO2/SS3Ch	127.0531
Freshwater Forested/Shrub Wetland	PSS1/3Fh	105.5635
Freshwater Forested/Shrub Wetland	PFO3Ad	679.8798
Freshwater Forested/Shrub Wetland	PSS1A	17.6849
Freshwater Forested/Shrub Wetland	PFO1C	5.0841
Freshwater Forested/Shrub Wetland	PSS1C	45.5748
Freshwater Forested/Shrub Wetland	PFO1F	34.8386
Freshwater Forested/Shrub Wetland	PSS1F	95.9058
Freshwater Forested/Shrub Wetland	PSS3Ad	23.1136
Freshwater Pond	PUBFx	4.5186
Freshwater Pond	PUBGx	3.3255
Freshwater Pond	PUBHh	3.8239
Freshwater Pond	PUBHx	914.1021
Freshwater Pond	PUBH	1.4706
Freshwater Pond	PABFx	1.7381



U.S. Fish and Wildlife Service

Trust Resources List

Lake	L1UBHx	1921.3606
Other	PUSC_x	38.6738
Other	PUSC	5.5434
Other	PUSA_x	1.5217
Riverine	R2UBHx	267.5989