

Stantec Consulting Services Inc. 910 Louisiana Street Suite 2600 Houston, TX 77002-4916

August 30, 2021 Revised December 16, 2021 File: 225600145

Cutlass Solar II LLC 155 Federal Street, 17th Floor Boston, MA 02110

Dear Tommy Browder,

Reference: Cutlass Solar II Project- Cutlass Solar II LLC; Fort Bend County, Texas.; Section 7 Threatened and Endangered Species Habitat Assessment

Stantec Consulting Services Inc (Stantec) was retained by Cutlass Solar II LLC (Client) to conduct a Section 7 Threatened and Endangered (collectively referred to as "T&E") Species Act Habitat Assessment on the Cutlass Solar II Project (Project). The proposed Project discussed in this report, totaling 1,107.8 acres, is located within Fort Bend County, Texas (the Project Area). The Project Area is currently used for agricultural cultivated cropland operations. The proposed Project location is provided in **Attachment A**.

United States Fish and Wildlife Service- Official Species List

On August 03, 2021, Stantec requested and received an Official Species List report for the Project Area (Consultation Code 02ETTX00-2021-SLI-2817) from the United States Fish and Wildlife Service (USFWS) Texas Coastal Ecological Services Field Office (**Attachment B**). The consultation provides the federally listed T&E species with the potential to occur within the Project Area. A review of the Official Species List determined that five federally listed species are known to potentially occur within the Project Area. The list includes three birds, one mussel, and one flowering plant (**Table 1**). Of the five federally-listed species, two birds, including the piping plover (*Charadrius melodus*) and the whooping crane (*Grus americana*), have final critical habitat; however, no final critical habitats were identified within the Project Area by the USFWS Official Species List. Additionally, the piping plover and the rufa red knot (*Calidris canutus rufa*) are only to be considered for wind energy projects and are, therefore, not discussed further in this report and are not listed in **Table 1**.

State Protected Species

The Texas Parks and Wildlife (TPWD) describes nine state protected species as potentially occurring in Fort Bend County in an assessment of the Annotated List of Rare Species by County (**Table 1**) (**Attachment C**). In addition to state listed species, the TPWD Annotated List of Rare Species by County identified four additional federally listed species that were not previously identified by the USFWS Official Species List. These species were included in Stantec's analysis of federally listed species and are identified by an asterisk (*) in **Table 1**.

State listed species, while not covered by the Endangered Species Act, are afforded protection by the State of Texas from the taking, possession, transportation, or sale of state protected species; however, the

Cutlass Solar II LLC Reference: Cutlass Solar II Project- Cutlass Solar II LLC; Fort Bend County, Texas.; Section 7 Threatened and Endangered Species Habitat Assessment

incidental take of an animal while conducting other lawful activities is authorized. TPWD does not have a mechanism to enforce management measures on "otherwise lawful activities" such as the Project. While regulations do not protect state-listed threatened or endangered species from incidental or indirect impacts or habitat destruction during otherwise lawful activities, Stantec recommends engaging in voluntary consultation with the TPWD.

Migratory Birds:

The Migratory Bird Treaty Act (MBTA) (16 U.S.C. §§ 703-712) prohibits the taking, killing, injuring, or capturing of listed migratory birds. The species protected under the MBTA are listed in 50 Code of Federal Regulations (CFR) §10.13, including 1,007 species. Neither the MBTA nor its implementing regulations in 50 CFR Part 21 provide for the permitting of "incidental take" of migratory birds that may be killed or injured by wind turbines.

On December 22nd, 2017, the United States Department of Interior (DOI) issued an opinion (M-37050) which permanently replaced the previous Opinion M-37041 regarding incidental take and the MBTA. M-37050 concluded that "the MBTA's prohibition on pursuing, hunting, taking, capturing, killing or attempting to do the same applies only to direct and affirmative purposeful actions that reduce migratory birds, their eggs, or their nests, by killing or capturing, to human control." The DOI followed up on the M-opinion with a guidance memo issued April 11, 2018, that, among other things, stated that "The United States Fish and Wildlife Service (USFWS) will ensure that our comments, recommendations, or requirements are not based on, nor imply, authority under the MBTA to regulate incidental take of migratory birds". The USFWS published a proposed rule change on February 3, 2020, to codify the conclusions made in M-37050. This rule clarifies that the protections under the MBTA only cover intentionally injuring birds: conduct that results in the unintentional (incidental) take of migratory birds is not prohibited under the Act. An Environmental Impact Statement (EIS), under the National Environmental Protection Act (NEPA), evaluating the impacts of this proposed rule was developed at the same time. The draft EIS was published on June 5, 2020, with a 45-day public comment period ending on July 20, 2020. The Final EIS for the proposed rule was issued on November 27, 2020. The USFWS published a final rule on January 7, 2021 ("Regulations Governing Take of Migratory Birds," 86 Fed. Reg. 1134) excluding incidental take from the MBTA indicating that bird mortality resulting from an action, but is not the purpose of that action, is not considered a criminal act. On May 7, 2021, the USFWS published a proposal to revoke the final rule limiting the scope of the MBTA, and on October 4, 2021, a final rule revoking the January 7, 2021, regulation that limited the scope of the MBTA was published (86 FR 54642). With this revocation, the MBTA will again prohibit incidental take and USFWS will have enforcement discretion. The rule goes into effect on December 3, 2021. USFWS simultaneously published an advance notice of proposed rulemaking to authorize the incidental take of migratory birds, including determining when, to what extent, and by what means it is consistent with the MBTA (86 FR 54667).

Six migratory bird species, listed as Birds of Conservation Concern and protected under the MBTA, were identified by IPaC as potentially occurring within the Project Area. The habitat requirement and the assessment result for each of the six migratory bird species are presented below in **Table 1**.

Reference: Cutlass Solar II Project- Cutlass Solar II LLC; Fort Bend County, Texas.; Section 7 Threatened and Endangered Species Habitat Assessment

Species	Federal/State Status	Database	Likelihood to Occur at Project Area	Summary of Habitat Requirements		
Birds						
Whooping Crane (<i>Grus Americana</i>)			Medium	Small ponds, marshes, and flooded grain fields; migrates via plains throughout the state. Overwinters in Aransas National Wildlife Refuge along the Texas coast.		
Black Rail (<i>Latteralus</i> <i>jamaicensis</i>)	LT/ST*	TPWD	Low	Inhabits swamps and grassy margins of ponds or freshwater emergent vegetation wetlands among saltgrass (<i>Distichlis</i> spp.)		
Attwater's Greater Prairie Chicken (<i>Tympanuchus</i> <i>cupido attwateri</i>)	LE/SE*	TPWD	Low	Open prairies of mostly thick grass one to three feet tall; sandhill country with bunch grass, sage (<i>Salvia</i> spp.), and shinnery oak (<i>Quercus havardii</i>).		
Interior Least Tern (<i>Sternula antrillarum athalassos</i>)	antrillarum SE T		Low	Inhabits sandy beaches and sandy margins of large rivers, however, may also nest on man-made structures such as inland beaches, wastewater treatment plants, and gravel mines.		
Reddish Egret (<i>Egretta rufescens</i>)	ST	TPWD	Low	Resident of the Texas Gulf Coast; brackish marshes and shallow salt ponds and tidal flats; nest on ground or in trees or bushes, on dry coastal islands in brushy thickets of yucca (<i>Yucca</i> spp.) or prickly pear (<i>Opuntia</i> spp.)		
White-faced Ibis (<i>Plegadis chihi</i>)	ST	TPWD	Low	Prefers freshwater marshes, sloughs, and irrigated rice fields; brackish and saltwater habitats; near-coastal rookeries in hog-wallow prairies		

Table1 - Federally and State Listed Species with the Potential to Occur within the Project Area

Cutlass Solar II LLC Reference: Cutlass Solar II Project- Cutlass Solar II LLC; Fort Bend County, Texas.; Section 7 Threatened and Endangered Species Habitat Assessment

Species	Federal/State Status	Database	Likelihood to Occur at Project Area	Summary of Habitat Requirements
Wood Stork (<i>Mycteria</i> <i>Americana</i>)	ST	TPWD	Medium	Builds nests among Bald cypress (<i>Taxodium distichum</i>) or mangrove (<i>Rhizophora</i> spp.) forests; prairie ponds, flooded pastures, field, ditches, other shallow standing water, salt- water
Swallow-Tailed Kite (<i>Elanoides forficatus</i>)	ST	TPWD	Low	Inhabits lowland forested regions, especially swampy areas, ranging into open woodlands; marshes, along rivers, lakes, and ponds; pine (<i>Pinus</i> spp.), cypress (<i>Taxodium</i> spp.), or deciduous trees
White-tailed Hawk (<i>Buteo albicaudatus</i>)	ST	TPWD	Low	Is observed near coastal habitats on prairies, cordgrass (<i>Spartina</i> spp.) flats, and scrub-live oak (<i>Quercus</i> <i>virginiana</i>); further inland on prairies, mesquite (<i>Prosopis</i> spp.) and oak (<i>Quercus</i> spp.) savannas
Bald Eagle (<i>Haliaeetus</i> <i>leucocephalus</i>)	MBL	USFWS/TPWD	Low	Found primarily near rivers and large lakes; nests in tall trees or on cliffs near water
King Rail (<i>Rallus</i> elegans)	MBL	USFWS	Medium	Freshwater marshes, upland-wetland marsh edges, rice fields or similar flooded farmlands, shrub swamps; locally in brackish and coastal salt marshes
Le Conte's Sparrow (<i>Ammodramus</i> <i>leconteii</i>)	MBL	USFWS	Low	Open, level uplands and lowlands, tall thick herbaceous vegetation and thick litter grasslands with aspen parkland, hayfields, fallow fields, and idle pasture
Lesser Yellowlegs (Tringa flavipes)	MBL	USFWS	Low	Marshes, ponds, wet meadows, lakes, and mudflats, shallow water, herbaceous wetlands, lagoon, or tidal shore

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Species	Federal/State Status	Database	Likelihood to Occur at Project Area	Summary of Habitat Requirements		
Long-billed Curlew (Numenius americanus)	MBL	USFWS	Low	Prairies and grass meadows, generally near water; dry prairies and moist meadows; short grass prairie, or irregular terrain near rock		
Sprague's Pipit (Anthus spragueii)	MBL	USFWS	Low	Short grass plains, mixed grass prairie, alkaline meadows, and wet meadow zones around alkali and freshwater lakes		
Mussels						
Texas Fawnsfoot (<i>Truncilla macrodon</i>)	LC/ST	USFWS/TPWD	Low	Inhabits rivers and larger streams, intolerant of impoundment; flowing rice irrigation canals, sand, gravel, and sandy-mud bottoms in moderate flows		
Brazos Heelsplitter (<i>Potamilus</i> <i>streckersoni</i>)	ST	TPWD	Low	Inhabits streams, large rivers, and some reservoirs. Occurs most often in near-shore habitats such as banks and backwater pools but occasionally in main channel habitats such as rifles.		
Fish						
Sharpnose Shiner (Notropis oxyrhynchus)	LE*	TPWD	Low	Upper Brazos River upstream of Possum Kingdom Lake; typically found in turbid water over mostly silt and shifting sand substrates		
Amphibians						
Houston Toad (<i>Truncilla macrodon</i>)	LE*	TPWD	Low	Sandy soil of loblolly pine (<i>Pinus taeda</i>), water in pools, ephemeral pools, stock tanks;		

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Species	Federal/State Status	Database	Likelihood to Occur at Project Area	Summary of Habitat Requirements		
Reptiles						
Texas Horned Lizard (Phrynosoma cornutum)	ST	TPWD	Low	Pinyon-juniper Mountain zone of Big Bend area; open, arid, and semi-arid regions with sparse vegetation, grass cacti, brush, scrubby trees		
Mammals						
Rafinesque's big- eared bat (Corynorhinus rafinesquii)	ST	TPWD	Low	Lowland pine and hardwood forest with large hollow trees; bottomland hardwoods, concrete culverts, and abandoned man-made structures		
Flowering Plants						
Texas Prairie-dawn (<i>Hymenoxys texana</i>)	LE/SE	USFWS/TPWD	Low	In poorly drained, sparsely vegetated areas at the base of mima mounds in open grassland or almost barren areas on slightly saline soils		

Source: TPWD 2021; USFWS 2021; Tweit 2008

*Is listed by Texas Parks and Wildlife as a threatened or endangered species that may be found within Fort Bend County but is not recognized as potentially occurring within the Project area by U.S. Fish and Wildlife Service on the IPaC Official Species List.

Key:

Under the ESA, species are classified as:

Endangered = Animals or plants in danger of extinction within the foreseeable future throughout all or a significant portion of its range. Threatened = Any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range. Candidate Species = Plants and animals for which the USFWS has sufficient information on their biological status and threats to propose them as endangered or threatened under the ESA, but for which development of a proposed listing regulation is precluded by other higher priority activities. MBL= Birds which are protected by the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act.

Field Survey

Based upon the desktop evaluation of habitat, Stantec conducted a field survey within the Project Area to evaluate potential habitat for federally listed species on July 24-25, 2019. **Attachment D** includes photographs taken during the survey. A general assessment of habitat types within the Project Area was made and compared against general habitat requirements of the species with potential to occur in Fort Bend County, Texas.

Reference: Cutlass Solar II Project- Cutlass Solar II LLC; Fort Bend County, Texas.; Section 7 Threatened and Endangered Species Habitat Assessment

The predominant ecological region observed within the Project Area could be described as gulf coastal prairie. These areas are relatively flat and characterized as previously grassland with few oak (*Quercus* spp.) mottes; however, during the field survey, the majority of the land cover within the Project Area was actively utilized as cultivated cropland.

The whooping crane, a federally listed species, and a rookery of great egret (*Ardea alba*) was observed on an adjacent property to the southeast of the Project Area during the field survey. The habitat being utilized by those individuals was located outside of the proposed Project Area in nearby surface waters. Additionally, two streams were identified and delineated during the field investigation, which included approximately 0.52 acres (5,400.3 LF).

Whooping Crane

The whooping crane summers in breeding grounds in northwest Canada then migrates south to wintering grounds along the southeast Texas coast (Alderfer 2006). The cranes arrive in wintering grounds in fall (Oct-Nov) then migrate north to summer breeding grounds in spring (Mar-Apr). According to the USFWS, the whooping crane migration across the U.S. is relatively quick (as short as one week). Since the Project Area is along the eastern edge of the whooping cranes' migratory route and not directly along the Texas coast, whooping cranes would likely be infrequent visitors to the Project vicinity during migration.

During migration, the cranes utilize harvested grain fields and mosaic riverine and palustrine wetlands for forage. Once the whooping cranes reach their wintering grounds along the Texas coast, primarily within the Aransas National Wildlife Refuge (over 80 miles southwest of the Project Area), the whooping cranes forage in brackish bays, marshes, and salt tidal flats (Alderfer 2006). Since the Project Area is primarily non-grain agriculture (cotton at the time of the last field surveys), preferred foraging habitats do not occur within the Project Area. Potential flyover of the Project Area may occur infrequently during migration; however, the whooping cranes would likely target more suitable habitat in the vicinity of the Project Area instead of the Project Area. While there is no suitable habitat within the Project Area, whooping cranes could infrequently target more suitable habitat nore suitable habitats to whooping cranes that are infrequent visitors in the Project vicinity, Cutlass II has intentionally designed the proposed Project to allow for a 250-foot buffer around whooping crane suitable habitat on adjacent parcels.

The Project would likely have no effect on the whooping crane due to:

- The lack of suitable foraging habitat within the Project Area.
- The location of the Project Area. The Project Area is on the eastern edge of the whooping crane migratory corridor, and the Project is over 80 miles from the whooping cranes primary overwintering habitat.
- The frequency at which the whooping cranes would likely occur in the vicinity of the Project Area. Whooping cranes would be infrequent visitors during migration for only a day or two in the fall and spring each year.
- The large amount of agricultural land in the vicinity of the Project that provides alternative, suitable foraging opportunities for the whooping crane.
- The fact that operation of the facility would be relatively passive and would have little effect on whooping cranes utilizing suitable habitat on adjacent parcels.

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There is a low chance that construction at the Project Area could slightly modify the behavior of whooping cranes that are infrequent visitors to the Project vicinity. However, whooping cranes would not likely not target the Project Area due to lack of foraging opportunities. Construction within the Project Area would be temporary, and there is little chance that the operation of the facility would have an effect on the whooping crane.

Stantec recommends buffering habitat of observed species as demarcated in Figure 7- T&E Species Habitat Assessment Map (**Attachment A**) to minimize and avoid any potential impacts to the great egret rookery and whooping crane suitable habitat. As stated above, a 250-foot buffer was created around observed surface waters in close proximity to the Project Area to diminish effects to listed species or migratory birds.

Raptors:

In addition to potential habitat for the federally listed species above, Stantec performed a limited, visual survey for raptor nests within and adjacent to the Project Area. No active or historic nests or raptors were observed within or near the Project Area at the time of the field survey.

Conclusions:

Based upon the review of the USFWS Official Species List, TPWD Annotated List of Rare Species by County, USFWS special considerations, and an on-site assessment conducted between July 24-25, 2019, there is likely no suitable habitat within the Project Area for 19 of the 22 T&E or migratory bird species identified in the table above (listed as "Low" in **Table 1**). The remaining three T&E or migratory bird species, including the federally listed whooping crane; the state-listed wood stork; and the king rail, a MBTA-listed species, are listed as "Medium" in **Table 1**. Potentially suitable habitat is not present within the Project Area but was identified on adjacent properties. Because habitat is present on adjacent properties, individuals have the potential to occur within the vicinity of the Project Area; however, their presence would be infrequent or incidental. No critical habitats or listed species were identified within the Project Area.

Based on the current Project design plan (**Attachment E**), Project development areas would be set back 250 feet from potential habitat to further minimize/avoid impacts. No further coordination is recommended at this time, and no permits are required.

Reference: Cutlass Solar II Project- Cutlass Solar II LLC; Fort Bend County, Texas.; Section 7 Threatened and Endangered Species Habitat Assessment

Regards,

Attachment:

Stantec Consulting Services Inc.

lleen Moss

Colleen Moss Environmental Scientist Phone: 832-612-9331 colleen.moss@stantec.com

A-Figures B-USFWS Official Species List C-TPWD Annotated List of Rare Species by County D- Photographic Log



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REFERENCES

- 50 CFR Part 10 1134-1165. 2021. Regulations Governing Take of Migratory Birds. Retrieved August 2021, from Federal Register: <u>https://www.federalregister.gov/documents/2021/01/07/2021-00054/regulations-governing-take-of-migratory-birds</u>
- Alderfer, Jonathan. 2006. Complete Birds of North America. National Geographic Society, Washington, D.C.
- Texas Parks and Wildlife Department (TPWD). 2021. Annotated List of Rare Species by County. Retrieved August 2021, from: <u>https://tpwd.texas.gov/gis/rtest/</u>
- Tweit, R. 2008. The Black Rail (*Laterallus jamaicensis*). Retrieved August 2021, from the Texas Breeding Bird Atlas: <u>https://txtbba.tamu.edu/species-accounts/black-rail/</u>
- USFWS. 2021. Information for Planning and Consultation (IPaC).Retrieved August 2021 from: https://ecos.fws.gov/ipac/.

Cutlass Solar II LLC Reference: Cutlass Solar II Project- Cutlass Solar II LLC; Fort Bend County, Texas.; Section 7 Threatened and Endangered Species Habitat Assessment

A-FIGURES



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B-USFWS OFFICIAL SPECIES LIST



United States Department of the Interior

FISH AND WILDLIFE SERVICE Texas Coastal Ecological Services Field Office 4444 Corona Drive, Suite 215 Corpus Christi, TX 78411 Phone: (281) 286-8282 Fax: (281) 488-5882 <u>http://www.fws.gov/southwest/es/TexasCoastal/</u> <u>http://www.fws.gov/southwest/es/ES_Lists_Main2.html</u>



August 03, 2021

In Reply Refer To: Consultation Code: 02ETTX00-2021-SLI-2817 Event Code: 02ETTX00-2021-E-06314 Project Name: Cutlass Solar II Project

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The U.S. Fish and Wildlife Service (Service) field offices in Clear Lake, Tx, and Corpus Christi, Tx, have combined administratively to form the Texas Coastal Ecological Services Field Office. A map of the Texas Coastal Ecological Services Field Office area of responsibility can be found at: http://www.fws.gov/southwest/es/TexasCoastal/Map.html. All project related correspondence should be sent to the field office responsible for the area in which your project occurs. For projects located in southeast Texas please write to: Field Supervisor; U.S. Fish and Wildlife Service; 17629 El Camino Real Ste. 211; Houston, Texas 77058. For projects located in southern Texas please write to: Field Supervisor; U.S. Fish and Wildlife Service; P.O. Box 81468; Corpus Christi, Texas 78468-1468. For projects located in six counties in southern Texas (Cameron, Hidalgo, Starr, Webb, Willacy, and Zapata) please write: Santa Ana NWR, ATTN: Ecological Services Sub Office, 3325 Green Jay Road, Alamo, Texas 78516.

The enclosed species list identifies federally threatened, endangered, and proposed to be listed species; designated critical habitat; and candidate species that may occur within the boundary of your proposed project and/or may be affected by your proposed project.

New information from updated surveys, changes in the abundance and distribution of species, changes in habitat conditions, or other factors could change the list. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the ECOS-IPaC website http://ecos.fws.gov/ipac/ at regular intervals during project planning and implementation for updates to species list and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

Candidate species have no protection under the Act but are included for consideration because they could be listed prior to the completion of your project. The other species information should help you determine if suitable habitat for these listed species exists in any of the proposed project areas or if project activities may affect species on-site, off-site, and/or result in "take" of a federally listed species.

"Take" is defined as harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect, or to attempt to engage in any such conduct. In addition to the direct take of an individual animal, habitat destruction or modification can be considered take, regardless of whether it has been formally designated as critical habitat, if the activity results in the death or injury of wildlife by removing essential habitat components or significantly alters essential behavior patterns, including breeding, feeding, or sheltering.

Section 7

Section 7 of the Act requires that all Federal agencies consult with the Service to ensure that actions authorized, funded or carried out by such agencies do not jeopardize the continued existence of any listed threatened or endangered species or adversely modify or destroy critical habitat of such species. It is the responsibility of the Federal action agency to determine if the proposed project may affect threatened or endangered species. If a "may affect" determination is made, the Federal agency shall initiate the section 7 consultation process by writing to the office that has responsibility for the area in which your project occurs.

Is not likely to adversely affect - the project may affect listed species and/or critical habitat; however, the effects are expected to be discountable, insignificant, or completely beneficial. Certain avoidance and minimization measures may need to be implemented in order to reach this level of effects. The Federal agency or the designated non-Federal representative should seek written concurrence from the Service that adverse effects have been eliminated. Be sure to include all of the information and documentation used to reach your decision with your request for concurrence. The Service must have this documentation before issuing a concurrence.

Is likely to adversely affect - adverse effects to listed species may occur as a direct or indirect result of the proposed action or its interrelated or interdependent actions, and the effect is not discountable, insignificant, or beneficial. If the overall effect of the proposed action is beneficial to the listed species but also is likely to cause some adverse effects to individuals of that species, then the proposed action "is likely to adversely affect" the listed species. An "is likely to adversely affect" determination requires the Federal action agency to initiate formal section 7 consultation with this office.

No effect - the proposed action will not affect federally listed species or critical habitat (i.e., suitable habitat for the species occurring in the project county is not present in or adjacent to the action area). No further coordination or contact with the Service is necessary. However, if the project changes or additional information on the distribution of listed or proposed species becomes available, the project should be reanalyzed for effects not previously considered.

Regardless of your determination, the Service recommends that you maintain a complete record of the evaluation, including steps leading to the determination of affect, the qualified personnel conducting the evaluation, habitat conditions, site photographs, and any other related articles. Please be advised that while a Federal agency may designate a non-Federal representative to conduct informal consultations with the Service, assess project effects, or prepare a biological assessment, the Federal agency must notify the Service in writing of such a designation. The Federal agency shall also independently review and evaluate the scope and contents of a biological assessment prepared by their designated non-Federal representative before that document is submitted to the Service.

The Service's Consultation Handbook is available online to assist you with further information on definitions, process, and fulfilling Act requirements for your projects at: <u>http://www.fws.gov/endangered/esa-library/pdf/esa_section7_handbook.pdf</u>

Section 10

If there is no federal involvement and the proposed project is being funded or carried out by private interests and/or non-federal government agencies, and the project as proposed may affect listed species, a section 10(a)(1)(B) permit is recommended. The Habitat Conservation Planning Handbook is available at: <u>http://www.fws.gov/endangered/esa-library/pdf/HCP_Handbook.pdf</u>

Service Response

Please note that the Service strives to respond to requests for project review within 30 days of receipt, however, this time period is not mandated by regulation. Responses may be delayed due to workload and lack of staff. Failure to meet the 30-day timeframe does not constitute a concurrence from the Service that the proposed project will not have impacts to threatened and endangered species.

Proposed Species and/or Proposed Critical Habitat

While consultations are required when the proposed action may affect listed species, section 7(a) (4) was added to the ESA to provide a mechanism for identifying and resolving potential conflicts between a proposed action and proposed species or proposed critical habitat at an early planning stage. The action agency should seek conference from the Service to assist the action agency in determining effects and to advise the agency on ways to avoid or minimize adverse effect to proposed species or proposed critical habitat.

Candidate Species

Candidate species are species that are being considered for possible addition to the threatened and endangered species list. They currently have no legal protection under the ESA. If you find you have potential project impacts to these species the Service would like to provide technical assistance to help avoid or minimize adverse effects. Addressing potential impacts to these species at this stage could better provide for overall ecosystem healh in the local area and ay avert potential future listing.

Several species of freshwater mussels occur in Texas and four are candidates for listing under the ESA. The Service is also reviewing the status of six other species for potential listing under the ESA. One of the main contributors to mussel die offs is sedimentation, which smothers and suffocates mussels. To reduce sedimentation within rivers, streams, and tributaries crossed by a

project, the Service recommends that that you implement the best management practices found at: <u>http://www.fws.gov/southwest/es/TexasCoastal/FreshwaterMussels.html</u>.

Candidate Conservation Agreements (CCAs) or Candidate Conservation Agreements with Assurances (CCAAs) are voluntary agreements between the Service and public or private entities to implement conservation measures to address threats to candidate species. Implementing conservation efforts before species are listed increases the likelihood that simpler, flexible, and more cost-effective conservation options are available. A CCAA can provide participants with assurances that if they engage in conservation actions, they will not be required to implement additional conservation measures beyond those in the agreement. For additional information on CCAs/CCAAs please visit the Service's website at http://www.fws.gov/endangered/what-we-do/cca.html.

Migratory Birds

The Migratory Bird Treaty Act (MBTA) implements various treaties and conventions for the protection of migratory birds. Under the MBTA, taking, killing, or possessing migratory birds is unlawful. Many may nest in trees, brush areas or other suitable habitat. The Service recommends activities requiring vegetation removal or disturbance avoid the peak nesting period of March through August to avoid destruction of individuals or eggs. If project activities must be conducted during this time, we recommend surveying for active nests prior to commencing work. A list of migratory birds may be viewed at http://www.fws.gov/migratorybirds/

The bald eagle (*Haliaeetus leucocephalus*) was delisted under the Act on August 9, 2007. Both the bald eagle and the goden eagle (*Aquila chrysaetos*) are still protected under the MBTA and BGEPA. The BGEPA affords both eagles protection in addition to that provided by the MBTA, in particular, by making it unlawful to "disturb" eagles. Under the BGEPA, the Service may issue limited permits to incidentally "take" eagles (e.g., injury, interfering with normal breeding, feeding, or sheltering behavior nest abandonment). For more information on bald and golden eagle management guidlines, we recommend you review information provided at http://www.fws.gov/midwest/eagle/pdf/NationalBaldEagleManagementGuidelines.pdf.

The construction of overhead power lines creates threats of avian collision and electrocution. The Service recommends the installation of underground rather than overhead power lines whenever possible. For new overhead lines or retrofitting of old lines, we recommend that project developers implement, to the maximum extent practicable, the Avian Power Line Interaction Committee guidelines found at http://www.aplic.org/.

Meteorological and communication towers are estimated to kill millions of birds per year. We recommend following the guidance set forth in the Service Interim Guidelines for Recommendations on Communications Tower Siting, Constructions, Operation and Decommissioning, found online at: <u>http://www.fws.gov/habitatconservation/</u> communicationtowers.html, to minimize the threat of avian mortality at these towers.

Monitoring at these towers would provide insight into the effectiveness of the minimization measures. We request the results of any wildlife mortality monitoring at towers associated with this project.

We request that you provide us with the final location and specifications of your proposed towers, as well as the recommendations implemented. A Tower Site Evaluation Form is also available via the above website; we recommend you complete this form and keep it in your files. If meteorological towers are to be constructed, please forward this completed form to our office.

More information concerning sections 7 and 10 of the Act, migratory birds, candidate species, and landowner tools can be found on our website at: <u>http://www.fws.gov/southwest/es/</u><u>TexasCoastal/ProjectReviews.html</u>.

Wetlands and Wildlife Habitat

Wetlands and riparian zones provide valuable fish and wildlife habitat as well as contribute to flood control, water quality enhancement, and groundwater recharge. Wetland and riparian vegetation provides food and cover for wildlife, stabilizes banks and decreases soil erosion.

These areas are inherently dynamic and very sensitive to changes caused by such activities as overgrazing, logging, major construction, or earth disturbance. Executive Order 11990 asserts that each agency shall provide leadership and take action to minimize the destruction, loss or degradation of wetlands, and to preserve and enhance the natural and beneficial value of wetlands in carrying out the agency's responsibilities. Construction activities near riparian zones should be carefully designed to minimize impacts. If vegetation clearing is needed in these riparian areas, they should be re-vegetated with native wetland and riparian vegetation to prevent erosion or loss of habitat. We recommend minimizing the area of soil scarification and initiating incremental re-establishment of herbaceous vegetation at the proposed work sites. Denuded and/or disturbed areas should be re-vegetated with a mixture of native legumes and grasses.

Species commonly used for soil stabilization are listed in the Texas Department of Agriculture's (TDA) Native Tree and Plant Directory, available from TDA at P.O. Box 12847, Austin, Texas 78711. The Service also urges taking precautions to ensure sediment loading does not occur to any receiving streams in the proposed project area. To prevent and/or minimize soil erosion and compaction associated with construction activities, avoid any unnecessary clearing of vegetation, and follow established rights-of-way whenever possible. All machinery and petroleum products should be stored outside the floodplain and/or wetland area during construction to prevent possible contamination of water and soils.

Wetlands and riparian areas are high priority fish and wildlife habitat, serving as important sources of food, cover, and shelter for numerous species of resident and migratory wildlife.

Waterfowl and other migratory birds use wetlands and riparian corridors as stopover, feeding, and nesting areas. We strongly recommend that the selected project site not impact wetlands and riparian areas, and be located as far as practical from these areas. Migratory birds tend to concentrate in or near wetlands and riparian areas and use these areas as migratory flyways or corridors. After every effort has been made to avoid impacting wetlands, you anticipate unavoidable wetland impacts will occur; you should contact the appropriate U.S. Army Corps of Engineers office to determine if a permit is necessary prior to commencement of construction activities.

If your project will involve filling, dredging, or trenching of a wetland or riparian area it may require a Clean Water Act Section 404 permit from the U.S. Army Corps of Engineers (COE).

For permitting requirements please contact the U.S. Corps of Engineers, District Engineer, P.O. Box 1229, Galveston, Texas 77553-1229, (409) 766-3002.

Beneficial Landscaping

In accordance with Executive Order 13112 on Invasive Species and the Executive Memorandum on Beneficial Landscaping (42 C.F.R. 26961), where possible, any landscaping associated with project plans should be limited to seeding and replanting with native species. A mixture of grasses and forbs appropriate to address potential erosion problems and long-term cover should be planted when seed is reasonably available. Although Bermuda grass is listed in seed mixtures, this species and other introduced species should be avoided as much as possible. The Service also recommends the use of native trees, shrubs, and herbaceous species that are adaptable, drought tolerant and conserve water.

State Listed Species

The State of Texas protects certain species. Please contact the Texas Parks and Wildlife Department (Endangered Resources Branch), 4200 Smith School Road, Austin, Texas 78744 (telephone 512/389-8021) for information concerning fish, wildlife, and plants of State concern or visit their website at: <u>http://www.tpwd.state.tx.us/huntwild/wild/wildlife_diversity/</u> texas_rare_species/listed_species/.

If we can be of further assistance, or if you have any questions about these comments, please contact 281/286-8282 if your project is in southeast Texas, or 361/994-9005, ext. 246, if your project is in southern Texas. Please refer to the Service consultation number listed above in any future correspondence regarding this project.

Attachment(s):

Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Texas Coastal Ecological Services Field Office 4444 Corona Drive, Suite 215 Corpus Christi, TX 78411 (281) 286-8282

Project Summary

02ETTX00-2021-SLI-2817
02ETTX00-2021-E-06314
Cutlass Solar II Project
POWER GENERATION
Fort Bend County, Texas
Cutlass Solar II Project

Project Location:

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@29.417743299999998,-95.74069137220066,14z</u>



Counties: Fort Bend County, Texas

Endangered Species Act Species

There is a total of 5 threatened, endangered, or candidate species on this 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 fish may appear on the species list because a project could affect downstream species. Note that 2 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Birds

NAME	STATUS
Piping Plover <i>Charadrius melodus</i>	Threatened
Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except	
those areas where listed as endangered.	
There is final critical habitat for this species. The location of the critical habitat is not available.	
This species only needs to be considered under the following conditions:	
 Wind related projects within migratory route. 	
Species profile: <u>https://ecos.fws.gov/ecp/species/6039</u>	
Red Knot Calidris canutus rufa	Threatened
There is proposed critical habitat for this species. The location of the critical habitat is not	
available.	
This species only needs to be considered under the following conditions:	
 Wind related projects within migratory route. 	
Species profile: <u>https://ecos.fws.gov/ecp/species/1864</u>	
Whooping Crane <i>Grus americana</i>	Endangered
Population: Wherever found, except where listed as an experimental population	0
There is final critical habitat for this species. The location of the critical habitat is not available.	
Species profile: <u>https://ecos.fws.gov/ecp/species/758</u>	

Clams

NAME

Texas Fawnsfoot *Truncilla macrodon* No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/8965</u>

Flowering Plants

NAME

Texas Prairie Dawn-flower *Hymenoxys texana* No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/6471</u>

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

STATUS Candidate

STATUS

Endangered

IPaC

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section. ONSUL

Location

Fort Bend County, Texas



Local office

Texas Coastal Ecological Services Field Office

\$ (281) 286-8282 (281) 488-5882

4444 Corona Drive, Suite 215 Corpus Christi, TX 78411

http://www.fws.gov/southwest/es/TexasCoastal/ http://www.fws.gov/southwest/es/ES Lists Main2.html

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

- Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
- 2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:



 Piping Plover Charadrius melodus This species only needs to be considered if the following condition applies: Wind related projects within migratory route. 	Threatened
There is final critical habitat for this species. The location of the critical habitat is not available. <u>https://ecos.fws.gov/ecp/species/6039</u>	
 Red Knot Calidris canutus rufa Wherever found This species only needs to be considered if the following condition applies: Wind related projects within migratory route. 	Threatened
There is proposed critical habitat for this species. The location of the critical habitat is not available. <u>https://ecos.fws.gov/ecp/species/1864</u>	-10N
Whooping Crane Grus americana There is final critical habitat for this species. The location of the critical habitat is not available. <u>https://ecos.fws.gov/ecp/species/758</u>	Endangered
Clams	STATUS
Texas Fawnsfoot Truncilla macrodon Wherever found No critical habitat has been designated for this species. <u>https://ecos.fws.gov/ecp/species/8965</u>	Candidate
Flowering Plants	
NAME	STATUS
Texas Prairie Dawn-flower Hymenoxys texana Wherever found No critical habitat has been designated for this species.	Endangered

https://ecos.fws.gov/ecp/species/6471

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

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THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.
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Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The <u>Migratory Birds Treaty Act</u> of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <u>http://www.fws.gov/birds/management/managed-species/</u> <u>birds-of-conservation-concern.php</u>
- Measures for avoiding and minimizing impacts to birds <u>http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/</u> <u>conservation-measures.php</u>
- Nationwide conservation measures for birds <u>http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf</u>

The birds listed below are birds of particular concern either because they occur on the <u>USFWS Birds</u> of <u>Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found <u>below</u>.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE.

"BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

 Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626 	Breeds Sep 1 to Jul 31
King Rail Rallus elegans This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8936	Breeds May 1 to Sep 5
Le Conte's Sparrow Ammodramus leconteii This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Lesser Yellowlegs Tringa flavipes This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9679</u>	Breeds elsewhere
Long-billed Curlew Numenius americanus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/5511</u>	Breeds elsewhere
Sprague's Pipit Anthus spragueii This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/8964</u>	Breeds elsewhere

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be

IPaC: Explore Location resources

used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (=)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (I)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

				🔳 prob	ability o	f presen	ce 📕 b	reeding s	eason	survey	effort	— no data
SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Bald Eagle Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or		•									+ I +
activities.) King Rail BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	*+++							<u></u>	5	C	A,
Le Conte's Sparrow BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)	10	-0	R	C	;C	N	30				+1+
Lesser Yellowlegs BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	• • • + •										-+1+
Long-billed Curlew BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)	++++				+						
Sprague's Pipit BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

<u>Nationwide Conservation Measures</u> describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. <u>Additional measures</u> or <u>permits</u> may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network</u> (<u>AKN</u>). The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen</u> <u>science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: <u>The Cornell Lab of Ornithology All About Birds Bird Guide</u>, or (if you are unsuccessful in locating the bird of interest there), the <u>Cornell Lab of Ornithology Neotropical Birds</u> guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

+ 1 +

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <u>NOAA NCCOS</u> <u>Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf</u> project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam</u> <u>Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities Wildlife refuges and fish hatcheries

REFUGE AND FISH HATCHERY INFORMATION IS NOT AVAILABLE AT THIS TIME

Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of</u> <u>Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER EMERG <u>PEM1C</u> <u>PEM1Cx</u> <u>PEM1A</u>	ENT WETLAND
FRESHWATER POND PUBHx PUBFx	FOK
RIVERINE R4SBC	2

A full description for each wetland code can be found at the National Wetlands Inventory website

Data limitations

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 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.

Data 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 tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data 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.

FEORCONSUL

Cutlass Solar II LLC

Reference: Cutlass Solar II Project- Cutlass Solar II LLC; Fort Bend County, Texas.; Section 7 Threatened and Endangered Species Habitat Assessment

C-TPWD ANNOTATED LIST OF RARE SPECIES BY COUNTY

Page 1 of 9

Last Update: 6/22/2021

FORT BEND COUNTY

AMPHIBIANS

Houston toad Anaxyrus houstonensis Terrestrial and aquatic: Primary terrestrial habitat is forests with deep sandy soils. Juveniles and adults are presumed to move through areas of less suitable soils using riparian corridors. Aquatic habitats can include any water body from a tire rut to a large lake. Federal Status: LE State Status: E SGCN: Y Endemic: Y Global Rank: G1 State Rank: S1 southern crawfish frog Lithobates areolatus areolatus Terrestrial and aquatic: The terrestial habitat is primarily grassland and can vary from pasture to intact prairie; it can also include small prairies in the middle of large forested areas. Aquatic habitat is any body of water but preferred habitat is ephemeral wetlands. State Status: SGCN: Y Federal Status: Endemic: N Global Rank: G4T4 State Rank: S3 Strecker's chorus frog Pseudacris streckeri Terrestrial and aquatic: Wooded floodplains and flats, prairies, cultivated fields and marshes. Likes sandy substrates. Federal Status: State Status: SGCN: Y Endemic: N Global Rank: G5 State Rank: S3 Woodhouse's toad Anaxyrus woodhousii Terrestrial and aquatic: A wide variety of terrestrial habitats are used by this species, including forests, grasslands, and barrier island sand dunes. Aquatic habitats are equally varied. Federal Status: State Status: SGCN: Y Endemic: N Global Rank: G5 State Rank: SU BIRDS Attwater's greater prairie-chicken Tympanuchus cupido attwateri Open prairies of mostly thick grass one to three feet tall; sandhill country with bunch grass, sage, and shinnery oak. From near sea level to 200 feet along coastal plain on upper two-thirds of Texas coast; males form communal display flocks during late winter-early spring; booming grounds important; breeding February-July SGCN: Y Federal Status: LE State Status: E Endemic: N Global Rank: G4T1 State Rank: S1 bald eagle Haliaeetus leucocephalus Found primarily near rivers and large lakes; nests in tall trees or on cliffs near water; communally roosts, especially in winter; hunts live prey, scavenges, and pirates food from other birds Federal Status: State Status: SGCN: Y Endemic: N Global Rank: G5 State Rank: S3B,S3N

DISCLAIMER

Page 2 of 9

FORT BEND COUNTY

BIRDS

BIRDS		
black rail	Laterallus jamaicensis	
Salt, brackish, and freshwater marshes, pond borders, wet meadows, and grassy swamps; nests in or along edge of marsh, sometimes on damp ground, but usually on mat of previous years dead grasses; nest usually hidden in marsh grass or at base of Salicornia		
Federal Status: LT	State Status: T	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S2
Franklin's gull	Leucophaeus pipixcan	
	l migrant throughout Texas. It does not breed in or near Texa especially along the Gulf coastline). During migration, these ands to roost for the night.	
Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S2N
interior least tern	Sternula antillarum athalassos	
and gravel bars within braided strea	oons, islands. Subspecies is listed only when inland (more the ms, rivers; also know to nest on man-made structures (inland taceans, when breeding forages within a few hundred feet of	l beaches, wastewater treatment plants, gravel
Federal Status: DL: Delisted	State Status: E	SGCN: N
Endemic: N	Global Rank: G4T3Q	State Rank: S1B
piping plover	Charadrius melodus	
Beaches, sandflats, and dunes along Gulf Coast beaches and adjacent offshore islands. Also spoil islands in the Intracoastal Waterway. Based on the November 30, 1992 Section 6 Job No. 9.1, Piping Plover and Snowy Plover Winter Habitat Status Survey, algal flats appear to be the highest quality habitat. Some of the most important aspects of algal flats are their relative inaccessibility and their continuous availability throughout all tidal conditions. Sand flats often appear to be preferred over algal flats when both are available, but large portions of sand flats along the Texas coast are available only during low-very low tides and are often completely unavailable during extreme high tides or strong north winds. Beaches appear to serve as a secondary habitat to the flats associated with the primary bays, lagoons, and inter-island passes. Beaches are rarely used on the southern Texas coast, where bayside habitat is always available, and are abandoned as bayside habitats become available on the central and northern coast. However, beaches are probably a vital habitat along the central and northern coast (i.e. north of Padre Island) during periods of extreme high tides that cover the flats. Optimal site characteristics appear to be large in area, sparsely vegetated, continuously available or in close proximity to secondary habitat, and with limited human disturbance.		
Federal Status: LT	State Status: T	SGCN: Y
Endemic: N	Global Rank: G3	State Rank: S2N

reddish egret

Egretta rufescens

Resident of the Texas Gulf Coast; brackish marshes and shallow salt ponds and tidal flats; nests on ground or in trees or bushes, on dry coastal islands in brushy thickets of yucca and prickly pear

Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S2B

rufa red knot

Calidris canutus rufa

DISCLAIMER

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FORT BEND COUNTY

BIRDS

Red knots migrate long distances in flocks northward through the contiguous United States mainly April-June, southward July-October. A small plump-bodied, short-necked shorebird that in breeding plumage, typically held from May through August, is a distinctive and unique pottery orange color. Its bill is dark, straight and, relative to other shorebirds, short-to-medium in length. After molting in late summer, this species is in a drab gray-and-white non-breeding plumage, typically held from September through April. In the non-breeding plumage, the knot might be confused with the omnipresent Sanderling. During this plumage, look for the knot's prominent pale eyebrow and whitish flanks with dark barring. The Red Knot prefers the shoreline of coast and bays and also uses mudflats during rare inland encounters. Primary prey items include coquina clam (Donax spp.) on beaches and dwarf surf clam (Mulinia lateralis) in bays, at least in the Laguna Madre. Wintering Range includes-Aransas, Brazoria, Calhoun, Cameron, Chambers, Galveston, Jefferson, Kennedy, Kleberg, Matagorda, Nueces, San Patricio, and Willacy. Habitat: Primarily seacoasts on tidal flats and beaches, herbaceous wetland, and Tidal flat/shore.

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Federal Status: LT	State Status: T	SGCN: Y	
Endemic: N	Global Rank: G4T2	State Rank: S2N	
swallow-tailed kite	Elanoides forficatus		
	y swampy areas, ranging into open woodland; marshes, along ge, usually in pine, cypress, or various deciduous trees	g rivers, lakes, and ponds; nests high in tall tree	
Federal Status:	State Status: T	SGCN: Y	
Endemic: N	Global Rank: G5	State Rank: S2B	
western burrowing owl	Athene cunicularia hypugaea		
Open grasslands, especially prairie, roosts in abandoned burrows	plains, and savanna, sometimes in open areas such as vacant	lots near human habitation or airports; nests and	
Federal Status:	State Status:	SGCN: Y	
Endemic: N	Global Rank: G4T4	State Rank: S2	
white-faced ibis	Plegadis chihi		
	, and irrigated rice fields, but will attend brackish and saltwa rairies. Nests in marshes, in low trees, on the ground in bulru		
Federal Status:	State Status: T	SGCN: Y	
Endemic: N	Global Rank: G5	State Rank: S4B	
white-tailed hawk	Buteo albicaudatus		
Near coast on prairies, cordgrass fla breeding March-May	ts, and scrub-live oak; further inland on prairies, mesquite an	d oak savannas, and mixed savanna-chaparral;	
Federal Status:	State Status: T	SGCN: Y	
Endemic: N	Global Rank: G4G5	State Rank: S4B	
whooping crane	Grus americana		
Small ponds, marshes, and flooded grain fields for both roosting and foraging. Potential migrant via plains throughout most of state to coast; winters in coastal marshes of Aransas, Calhoun, and Refugio counties.			
Federal Status: LE	State Status: E	SGCN: Y	
Endemic: N	Global Rank: G1	State Rank: S1N	
wood stork	Mycteria americana		

DISCLAIMER

Page 4 of 9

FORT BEND COUNTY

BIRDS

Federal Status:	vith forested areas; formerly nested in Texas, State Status: T	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: SHB,S2N
	FISH	
Mississippi silvery minnow	Hybognathus nuchalis	
	from the Brazos River eastward and northwar likely to inhabit smaller tributary streams.	d to the Red River; found in moderate current; silty, muddy, or
Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: G5	State Rank: S4
sharpnose shiner	Notropis oxyrhynchus	
	Brazos River upstream of Possum Kingdom I ver mostly silt and shifting sand substrates.	Lake. May be native to Red River and Colorado River basins.
Federal Status: LE	State Status: E	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S1S2
silver chub	Macrhybopsis storeriana	
Red River and Brazos River basin over silt or mud bottom.	ns. Mainly restricted to large, often silty river	s. Ranges over gravel to silt substrates but found more commonl
Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3
silverband shiner	Notropis shumardi	
In Texas, found from Red River t with turbid water over silt, sand,		to swift current velocities and moderate to deep depths; associat
Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S4
	INSECTS	
American bumblebee	Bombus pensylvanicus	
Habitat description is not availab	le at this time.	
Federal Status:	State Status:	SGCN: Y
Endemic:	Global Rank: G3G4	State Rank: SNR
	MAMMALS	
big brown bat	Eptesicus fuscus	

MAMMALS

Any wooded areas or woodlands except south Texas. Riparian areas in west Texas.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5
big free-tailed bat	Nyctinomops macrotis	

Habitat data sparse but records indicate that species prefers to roost in crevices and cracks in high canyon walls, but will use buildings, as well; reproduction data sparse, gives birth to single offspring late June-early July; females gather in nursery colonies; winter habits undetermined, but may hibernate in the Trans-Pecos; opportunistic insectivore

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3

eastern red bat Lasiurus borealis

Red bats are migratory bats that are common across Texas. They are most common in the eastern and central parts of the state, due to their requirement of forests for foliage roosting. West Texas specimens are associated with forested areas (cottonwoods). Also common along the coastline. These bats are highly mobile, seasonally migratory, and practice a type of "wandering migration". Associations with specific habitat is difficult unless specific migratory stopover sites or wintering grounds are found. Likely associated with any forested area in East, Central, and North Texas but can occur statewide.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S4

eastern spotted skunk Spilogale putorius

Generalist; open fields prairies, croplands, fence rows, farmyards, forest edges & amp; woodlands. Prefer wooded, brushy areas & amp; tallgrass prairies. S.p. ssp. interrupta found in wooded areas and tallgrass prairies, preferring rocky canyons and outcrops when such sites are available.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S1S3
hoary bat	Lasiurus cinereus	
Hoary bats are highly migratory, high-flying bats that have been noted throughout the state. Females are known to migrate to Mexico in the		

winter, males tend to remain further north and may stay in Texas year-round. Commonly associated with forests (foliage roosting species) but are found in unforested parts of the state and lowland deserts. Tend to be captured over water and large, open flyways.

Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G3G4	State Rank: S4
long-tailed weasel	Mustela frenata	
Includes brushlands, fence rows, upland woods and bottomland hardwoods, forest edges & rocky desert scrub. Usually live close to water.		
Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S5

DISCLAIMER

MAMMALS

mountain lion	Puma concolor		
Generalist; found in a wide range of habitats statewide. Found most frequently in rugged mountains & amp; riparian zones.			
Federal Status:	State Status:	SGCN: Y	
Endemic: N	Global Rank: G5	State Rank: S2S3	
northern yellow bat	Lasiurus intermedius		
	but inland specimens are not uncommon. Prefers roosting in occurs. Found near water and forages over grassy, open area dividuals.		
Federal Status:	State Status:	SGCN: Y	
Endemic: N	Global Rank: G5	State Rank: S4	
Rafinesque's big-eared bat	Corynorhinus rafinesquii		
Historically, lowland pine and hardy abandoned man-made structures	wood forests with large hollow trees. roosts in cavity trees of	bottomland hardwoods, concrete culverts, and	
Federal Status:	State Status: T	SGCN: Y	
Endemic: N	Global Rank: G3G4	State Rank: S2	
swamp rabbit	Sylvilagus aquaticus		
•	ar water including: cypress bogs and marshes, floodplains, cr		
Federal Status:	State Status:	SGCN: Y	
Endemic: N	Global Rank: G5	State Rank: S5	
tricolored bat	Perimyotis subflavus		
Forest, woodland and riparian areas	are important. Caves are very important to this species.		
Federal Status:	State Status:	SGCN: Y	
Endemic: N	Global Rank: G2G3	State Rank: S3S4	
western hog-nosed skunk	Conepatus leuconotus		
Habitats include woodlands, grassla habitat of the ssp. telmalestes	nds & amp; deserts, to 7200 feet, most common in rugged, ro	cky canyon country; little is known about the	
Federal Status:	State Status:	SGCN: Y	
Endemic: N	Global Rank: G4	State Rank: S4	

DISCLAIMER

MOLLUSKS

	MOLLOSING		
Brazos Heelsplitter	Potamilus streckersoni		
Reported from streams, but not far into the headwaters, to large rivers, and some reservoirs. In riverine systems occurs most often in nearshore habitats such as banks and backwater pools but occasionally in mainchannel habitats such as riffles. Typically found in standing to slow-flowing water in soft substrates consisting of silt, mud or sand but occasionally in moderate flows with gravel and cobble substrates (Randklev et al. 2014b,c; Tsakiris and Randklev 2016b; Smith et al. 2019) [Mussels of Texas 2020]			
Federal Status:	State Status: T	SGCN: Y	
Endemic: Y	Global Rank: GNR	State Rank: SNR	
Texas Fawnsfoot	Truncilla macrodon		
Occurs in large rivers but may also be found in medium-sized streams. Is found in protected near shore areas such as banks and backwaters but also riffles and point bar habitats with low to moderate water velocities. Typically occurs in substrates of mud, sandy mud, gravel and cobble. Considered intolerant of reservoirs (Randklev et al. 2010; Howells 2010o; Randklev et al. 2014b,c; Randklev et al. 2017a,b). [Mussels of Texas 2019]			
Federal Status: C	State Status: T	SGCN: Y	
Endemic: Y	Global Rank: Gl	State Rank: S2	
	DEDTH EC		
	REPTILES		
common garter snake	Thamnophis sirtalis		
Terrestrial and aquatic: Habitats used include the grasslands and modified open areas in the vicinity of aquatic features, such as ponds, streams or marshes. Damp soils and debris for cover are thought to be critical.			
Federal Status:	State Status:	SGCN: N	
Endemic:	Global Rank: G5	State Rank: S2	
eastern box turtle	Terrapene carolina		
Terrestrial: Eastern box turtles inhabit forests, fields, forest-brush, and forest-field ecotones. In some areas they move seasonally from fields in spring to forest in summer. They commonly enters pools of shallow water in summer. For shelter, they burrow into loose soil, debris, mud, old stump holes, or under leaf litter. They can successfully hibernate in sites that may experience subfreezing temperatures.			
Federal Status:	State Status:	SGCN: Y	
Endemic: N	Global Rank: G5	State Rank: S3	
Prairie Skink	Plestiodon septentrionalis		
The prairie skink can occur in any native grassland habitat across the Rolling Plains, Blackland Prairie, Post Oak Savanna and Pineywoods ecoregions.			
Federal Status:	State Status:	SGCN: Y	
Endemic: N	Global Rank: G5	State Rank: S5	
slender glass lizard	Ophisaurus attenuatus		
Terrestrial: Habitats include open grassland, prairie, woodland edge, open woodland, oak savannas, longleaf pine flatwoods, scrubby areas, fallow fields, and areas near streams and ponds, often in habitats with sandy soil.			
Federal Status:	State Status:	SGCN: Y	
Endemic: N	Global Rank: G5	State Rank: S3	

DISCLAIMER

REPTILES

	REPTILES	
smooth softshell	Apalone mutica	
or mud bottom and few aquation		bundments (Ernst and Barbour 1972). Usually in water with sandy at edge of water. Eggs are laid in nests dug in high open sandbars 975).
Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5	State Rank: S3
Texas horned lizard	Phrynosoma cornutum	
Terrestrial: Open habitats with sandy to rocky; burrows into su pinyon-juniper zone on mounta	oil, enters rodent burrows, or hides under rock	tus, scattered brush or scrubby trees; soil may vary in texture from when inactive. Occurs to 6000 feet, but largely limited below the
Federal Status:	State Status: T	SGCN: Y
Endemic: N	Global Rank: G4G5	State Rank: S3
timber (canebrake) rattlesna	ske Crotalus horridus	
	ins, upland pine and deciduous woodland, ripar nd cover, i.e. grapevines, palmetto.	an zones, abandoned farmland. Limestone bluffs, sandy soil or
Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G4	State Rank: S4
western box turtle	Terrapene ornata	
western box turne	Terrapene ornana	
Terrestrial: Ornate or western	box trutles inhabit prairie grassland, pasture, fie llow streams and creek pools. For shelter, they	elds, sandhills, and open woodland. They are essentially terrestrial purrow into soil (e.g., under plants such as yucca) (Converse et al.
Terrestrial: Ornate or western but sometimes enter slow, shal	box trutles inhabit prairie grassland, pasture, fie llow streams and creek pools. For shelter, they	
Terrestrial: Ornate or western b but sometimes enter slow, shal 2002) or enter burrows made b	box trutles inhabit prairie grassland, pasture, field llow streams and creek pools. For shelter, they by other species.	purrow into soil (e.g., under plants such as yucca) (Converse et al.
Terrestrial: Ornate or western but sometimes enter slow, shal 2002) or enter burrows made b Federal Status:	box trutles inhabit prairie grassland, pasture, fig llow streams and creek pools. For shelter, they by other species. State Status:	ourrow into soil (e.g., under plants such as yucca) (Converse et al. SGCN: Y
Terrestrial: Ornate or western I but sometimes enter slow, shal 2002) or enter burrows made b Federal Status: Endemic: N western chicken turtle Aquatic and terrestrial: This sp	box trutles inhabit prairie grassland, pasture, fie llow streams and creek pools. For shelter, they by other species. State Status: Global Rank: G5 <i>Deirochelys reticularia miaria</i> pecies uses aquatic habitats in the late winter, sp	ourrow into soil (e.g., under plants such as yucca) (Converse et al. SGCN: Y
Terrestrial: Ornate or western l but sometimes enter slow, shal 2002) or enter burrows made b Federal Status: Endemic: N western chicken turtle Aquatic and terrestrial: This sp of the year. Preferred aquatic h	box trutles inhabit prairie grassland, pasture, fie llow streams and creek pools. For shelter, they by other species. State Status: Global Rank: G5 <i>Deirochelys reticularia miaria</i> pecies uses aquatic habitats in the late winter, sp	burrow into soil (e.g., under plants such as yucca) (Converse et al. SGCN: Y State Rank: S3
Terrestrial: Ornate or western l but sometimes enter slow, shal 2002) or enter burrows made b Federal Status: Endemic: N western chicken turtle Aquatic and terrestrial: This sp of the year. Preferred aquatic h known.	box trutles inhabit prairie grassland, pasture, fie llow streams and creek pools. For shelter, they by other species. State Status: Global Rank: G5 <i>Deirochelys reticularia miaria</i> pecies uses aquatic habitats in the late winter, sp habitats seem to be highly vegetated shallow we	burrow into soil (e.g., under plants such as yucca) (Converse et al. SGCN: Y State Rank: S3 bring and early summer and then terrestrial habitats the remainder stlands with gentle slopes. Specific terrestrial habitats are not well
Terrestrial: Ornate or western I but sometimes enter slow, shal 2002) or enter burrows made b Federal Status: Endemic: N western chicken turtle Aquatic and terrestrial: This sp of the year. Preferred aquatic h known. Federal Status:	box trutles inhabit prairie grassland, pasture, fie llow streams and creek pools. For shelter, they by other species. State Status: Global Rank: G5 <i>Deirochelys reticularia miaria</i> pecies uses aquatic habitats in the late winter, sp habitats seem to be highly vegetated shallow we State Status:	burrow into soil (e.g., under plants such as yucca) (Converse et al. SGCN: Y State Rank: S3 bring and early summer and then terrestrial habitats the remainder stlands with gentle slopes. Specific terrestrial habitats are not well SGCN: Y
Terrestrial: Ornate or western I but sometimes enter slow, shal 2002) or enter burrows made b Federal Status: Endemic: N western chicken turtle Aquatic and terrestrial: This sp of the year. Preferred aquatic h known. Federal Status:	box trutles inhabit prairie grassland, pasture, fie llow streams and creek pools. For shelter, they by other species. State Status: Global Rank: G5 <i>Deirochelys reticularia miaria</i> pecies uses aquatic habitats in the late winter, sp habitats seem to be highly vegetated shallow we State Status: Global Rank: G5T5	burrow into soil (e.g., under plants such as yucca) (Converse et al. SGCN: Y State Rank: S3 bring and early summer and then terrestrial habitats the remainder stlands with gentle slopes. Specific terrestrial habitats are not well SGCN: Y
Terrestrial: Ornate or western I but sometimes enter slow, shal 2002) or enter burrows made b Federal Status: Endemic: N western chicken turtle Aquatic and terrestrial: This sp of the year. Preferred aquatic h known. Federal Status: Endemic: N awnless bluestem	box trutles inhabit prairie grassland, pasture, fie llow streams and creek pools. For shelter, they by other species. State Status: Global Rank: G5 <i>Deirochelys reticularia miaria</i> pecies uses aquatic habitats in the late winter, sp habitats seem to be highly vegetated shallow we State Status: Global Rank: G5T5 PLANTS	burrow into soil (e.g., under plants such as yucca) (Converse et al. SGCN: Y State Rank: S3 bring and early summer and then terrestrial habitats the remainder tlands with gentle slopes. Specific terrestrial habitats are not well SGCN: Y State Rank: S2S3
Terrestrial: Ornate or western I but sometimes enter slow, shal 2002) or enter burrows made b Federal Status: Endemic: N western chicken turtle Aquatic and terrestrial: This sp of the year. Preferred aquatic h known. Federal Status: Endemic: N awnless bluestem	box trutles inhabit prairie grassland, pasture, fie llow streams and creek pools. For shelter, they by other species. State Status: Global Rank: G5 <i>Deirochelys reticularia miaria</i> pecies uses aquatic habitats in the late winter, sp habitats seem to be highly vegetated shallow we State Status: Global Rank: G5T5 PLANTS <i>Bothriochloa exaristata</i>	burrow into soil (e.g., under plants such as yucca) (Converse et al. SGCN: Y State Rank: S3 bring and early summer and then terrestrial habitats the remainder tlands with gentle slopes. Specific terrestrial habitats are not well SGCN: Y State Rank: S2S3

DISCLAIMER

PLANTS

corkwood	Leitneria pilosa ssp. pilosa	
Wet or saturated silty soils along l as early as May	brackish or freshwater swamps and ponds and other low, poo	rly drained sites; flowers in early spring, fruiting
Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G2G3T2	State Rank: S2
Sutherland hawthorn	Crataegus viridis var. glabriuscula	
In mesic soils of woods or on edg fruiting May-Oct.	e of woods, treeline/fenceline, or thicket. Above\near creeks	and draws, in river bottoms. Flowering Mar-Apr;
Federal Status:	State Status:	SGCN: Y
Endemic: N	Global Rank: G5T3T4	State Rank: S3
Texas pinkroot	Spigelia texana	
Woodlands on loamy soils; Peren	nial; Flowering March-Nov; Fruiting April-Nov	
Federal Status:	State Status:	SGCN: Y
Endemic: Y	Global Rank: G3	State Rank: S3
Texas prairie dawn	Hymenoxys texana	
In poorly drained, sparsely vegtate soils that are sticky when wet and	ed areas (slick spots) at the base of mima mounds in open gra powdery when dry; flowering late February-early April	assland or almost barren areas on slightly saline
Federal Status: LE	State Status: E	SGCN: Y
	Global Rank: G2	State Rank: S2
Endemic: Y	Global Rank: G2	State Rank. 52
Endemic: Y Texas tauschia	Tauschia texana	State Raik. 52
Texas tauschia		
Texas tauschia	Tauschia texana	
Texas tauschia Occurs in loamy soils in deciduou	<i>Tauschia texana</i> s forests or woodlands on river and stream terraces; Perennia	al; Flowering/Fruiting Feb-April
Texas tauschia Occurs in loamy soils in deciduou Federal Status:	<i>Tauschia texana</i> s forests or woodlands on river and stream terraces; Perennia State Status:	al; Flowering/Fruiting Feb-April SGCN: Y
Texas tauschia Occurs in loamy soils in deciduou Federal Status: Endemic: Y threeflower broomweed Near coast in sparse, low vegetation	<i>Tauschia texana</i> s forests or woodlands on river and stream terraces; Perennia State Status: Global Rank: G3	al; Flowering/Fruiting Feb-April SGCN: Y State Rank: S3 ay along drier upper margins of ecotone between
Texas tauschia Occurs in loamy soils in deciduou Federal Status: Endemic: Y threeflower broomweed Near coast in sparse, low vegetativ between salty prairies and tidal fla	<i>Tauschia texana</i> s forests or woodlands on river and stream terraces; Perennia State Status: Global Rank: G3 <i>Thurovia triflora</i> on on a veneer of light colored silt or fine sand over saline cl	al; Flowering/Fruiting Feb-April SGCN: Y State Rank: S3 ay along drier upper margins of ecotone between

DISCLAIMER

Cutlass Solar II LLC Reference: Cutlass Solar II Project- Cutlass Solar II LLC; Fort Bend County, Texas.; Section 7 Threatened and Endangered Species Habitat Assessment

D-PHOTOGRAPHIC LOG



Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and/or completeness of the data.





Photographic Log

Client:	Cutlass Solar II LLC	F	Project:	T&E Species Habitat Assessment
Project Name:	Cutlass Solar II Projec	t F	Project Location:	Fort Bend County, Texas
Photograph ID: 1				
Photo Location: ST-01				
Direction: E				
Survey Date: 7/24/2019				
Comments: View of ST-01, a field identified intermittent stream.				
Photograph ID: 2				
Photo Location: ST-02				
Direction: W			CONTRACTOR DE LA CONTRACT	and a star of the
Survey Date: 7/24/2019				
Comments: View of ST-02, a field identified ephemeral stream.				



Photographic Log

Client:	Cutla	ss Solar II LLC	Project:	T&E Species Habitat Assessment
Project Name:	Cutla	ss Solar II Project	Project Location:	Fort Bend County, Texas
Photograph ID: 3				
Photo Location: Adjacent property southeast of Project A	Area			
Direction: SE				
Survey Date: 7/24/2019			C. Land Land Land	- 990-2
Comments: Identified Potential Ha located in an adjacen property southeast of Project Area.	t			
Photograph ID: 4				
Photo Location: Southern boundary of Project Area	f			
Direction: NW				
Survey Date: 7/24/2019			Tt.	
Comments: Representative view f the southern boundar the Project Area. The majority of the Project was utilized for agricu crop cultivation purpo	ry of t Area Itural			

Cutlass Solar II LLC Reference: Cutlass Solar II Project- Cutlass Solar II LLC; Fort Bend County, Texas.; Section 7 Threatened and Endangered Species Habitat Assessment

E- PROJECT DESIGN



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To Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.