

## **Executive Summary**

Stantec Consulting Services (“Stantec”) completed a waters of the United States (WOUS) delineation on approximately 1,107.8 acres in Fort Bend County, Texas (the “Project Area”) near the city of Fairchilds, Texas for Cutlass Solar II LLC (the “Client”). The proposed Cutlass Solar II Project (herein referred to as the “Project”) includes the construction and operation of a solar energy facility. The Project Area discussed in this report, totaling 1,107.8 acres, will be a solar energy development, located approximately 40 miles southwest of Houston, Texas in Electric Reliability Council of Texas’s (ERCOT’s) Houston Zone, that will deliver energy to ERCOT at a new generation facility near the CenterPoint Houston Electric, LLC (“CenterPoint Energy”) transmission system.

During the July 2019 field investigation, Stantec observed the Project Area to be largely cultivated agricultural fields with limited woody vegetation. Southern live oak (*Quercus virginiana*) was the predominant vegetation within the Project Area and was largely limited to the area immediately north of the Project Area.

Stantec identified and delineated two streams within the Project Area, which totaled approximately 0.52 acres (5,400.3 linear feet). ST-01, a field verified NHD identified intermittent stream, was observed in the northern portion of the Project Area. ST-01 is an unnamed, intermittent tributary to Fairchilds Creek and is fully encompassed by tall banks with culverts which appear to drain the adjacent fields. ST-02 was identified as a small, unnamed, ephemeral stream draining towards Fairchilds Creek. Vegetation along the stream channel was not indicative of wetland vegetation. ST-02 was visibly draining cropland and was largely characterized as located in a denuded area.

The information provided by Stantec regarding potentially jurisdictional features under Section 404 of the Clean Water Act is a scientifically based analysis of the conditions of hydrologic features, wetlands, and uplands present within the Project Area at the time of the field investigation. Based upon this investigation and Stantec’s understanding of the currently regulatory guidance, it is likely that both streams delineated within the Project Area would be considered jurisdictional; however, the ultimate decision on WOUS rests with the United States Army Corp of Engineers.

**WATERS OF THE UNITED STATES DELINEATION-  
CUTLASS SOLAR II PROJECT  
FORT BEND COUNTY, TEXAS**

Project Introduction

## **1.0 PROJECT INTRODUCTION**

Stantec Consulting Services ("Stantec") completed a waters of the United States (WOUS) delineation on the approximately 1,107.8 acres in Fort Bend County, Texas (the "Project Area") for Cutlass Solar II LLC (the "Client"). The Cutlass Solar II Project (herein referred to as the "Project") is located near Fairchilds, Texas. The village of Fairchilds is approximately 1.31 miles (mi) northwest of the Project and has a population of 638. The Project is outside the limits of Fairchilds and is under the jurisdiction of Fort Bend County (**Appendix A, Figures 1 and 2**).

The Project Area is primarily comprised of cultivated cropland (96.2%) and pasture or hay rangeland (2.7%) (USGS 2011). The Project Area involves the installation and operation of a ground-mounted solar energy array to deliver energy to the Houston area.

The Client seeks to install a solar array to supply energy to the expanding requirement of the City of Houston. In support of that effort, Stantec has completed a WOUS delineation consisting of two components, a desktop review of mapped resources and a field investigation conducted July 24-25, 2019. This report and associated figures, historical aerials, and Project Area photographs detail the result of the desktop review and field investigation.

## 2.0 METHODOLOGY

### 2.1 REVIEW OF EXISTING PROJECT CONDITIONS

A desktop review of the Project Area was conducted in July 2019 prior to conducting the field investigation on July 24-25, 2019. The desktop review involves the use of publicly available resources to gain an understanding of the ecology of the area and identify areas of potential wetlands or waterbodies. These data sources included the Natural Resources Conservation Service (NRCS) soil surveys and hydric soils list, aerial orthophotography, United States Geological Survey (USGS) topographic maps, the USGS National Hydrography Dataset (NHD), the United States Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI), and the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs).

### 2.2 FIELD INVESTIGATION

#### 2.2.1 Field Survey - Wetlands

If encountered, wetlands were delineated using procedures outlined in the United States Army Corps of Engineers (USACE) Wetlands Delineation Manual (USACE 1987) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plains Region (USACE 2010). Project Area wetland determinations involve a detailed examination of plants, soils, and hydrologic indicators present (three-parameter approach). Project Area conditions allowed for observation and data collection of all three wetland parameters (plants, soils, and hydrologic indicators).

#### 2.2.2 Field Survey- Waterbodies

Waterbodies within the proposed Project Area were delineated in accordance with the USACE Regional Guidance Letter 05-05 – Ordinary High-Water Mark Identification (RGL 05-05 Letter, USACE 2005). Waterbodies include linear water features (i.e., streams, creeks, rivers) as well as open water features (i.e., ponds, lakes). Applicable information gathered and documented for each waterbody feature, if present, include bank height, ordinary high-water mark (OHWM), bank slope, stream flow direction and type, water appearance, stream substrate, aquatic habitats, channel conditions, and disturbances.

#### 2.2.3 Documentation and Mapping

As described in the USACE Manual and Regional Supplement, areas where all three parameters meet the wetland criteria would be delineated as wetlands. After determining the approximate extent of the wetlands based on the three criteria listed above, the wetland boundaries, if present, would have been mapped with a handheld Global Positioning System (GPS) receiver. The receiver used for this purpose provides sub-meter accuracy in geospatial data collection. Waterbodies would have been mapped along the top of the bank or at the OHWM if visible.

Maps were created using the field-collected data to illustrate the locations of all delineated features within the Project Area and are depicted on **Figure 6** in **Appendix A**. Photographs were taken of all delineated features within the Project Area and are provided in **Appendix B**. A map indicating the location of photographs is also provided in **Appendix B**.

Results

## 3.0 RESULTS

### 3.1 PROJECT AREA DESCRIPTION

According to the USGS Gap Analysis Project (GAP)/LANDFIRE National Terrestrial Ecosystems database (USGS 2011), land cover within the Project Area is 1,066.2 acres of cultivated cropland (96.2%), 29.7 acres of hay or pasture rangeland (2.7%), 8.5 acres of high intensity developments (0.8%), 2.1 acres of Gulf and Atlantic Coastal Plain Swamp Systems (0.2%), and 0.6 acres of open freshwater (0.1%). The remaining 0.7 acres comprise less than 1% of the total Project Area (**Appendix A, Figure 3**). Land cover of the surrounding properties is similar to the Project Area.

#### 3.1.1 USGS Topographic Map, NHD, NWI, and FEMA Regulatory Floodplain

The USGS 7.5-minute topographic map (USGS 1953) depicts Fairchilds Creek in the adjacent property to the north and east of the Project Area with an unnamed tributary flowing southeast through the northern portion of the Project Area. The terrain within the Project Area is relatively flat, gradually sloping southward towards a stream located on the adjacent property to the south of the Project Area, and northward towards an unnamed tributary to Fairchilds Creek located in the northern portion of the Project Area.

The NHD (USGS 2021) depicts the same streams mapped by the USGS topographic map, and total 9,343.5 linear feet (LF) within the Project Area. The NHD depicts approximately 4,292.9 LF of intermittent streams occurring in the northern portions of the Project, with an additional 5,050.6 LF of canals/ditches transecting the central portion of the Project Area in the northeast-southwest orientation. The NHD also indicates 0.6 acres of perennial lake/pond features within the Project Area.

According to NWI (USFWS 2021), a total of 6.0 acres of wetlands occur within the Project Area, including 5.0 acres of freshwater emergent wetlands, 0.8 acres of freshwater ponds, and 0.2 acres of riverine features (**Appendix A, Figure 4**).

The FEMA FIRMs 48157C0400M and 48157C0425M (FEMA 2021a) map Fairchilds Creek, a stream located in the adjacent property to the north and east of the Project Area, as occurring within the Special Flood Hazard Area which lists the area in Zone A, or areas of 1% potential annual chance of flood hazard (FEMA 2021b). Approximately 2.1 acres of the Project Area is located within Zone A along the unnamed intermittent tributary of Fairchilds Creek in the northern portion of the Project Area (**Appendix A, Figure 4**).

#### 3.1.2 NRCS Soils

Soils mapped within the Project Area by the NRCS Soil Survey of Fort Bend County, Texas (NRCS 2019) are listed in **Table 1** and depicted on **Appendix A, Figure 5**. The predominant soil series is the Lake Charles clay 0 to 1 percent slopes, encompassing 98.3% (1,089.1 acres) of the total Project Area. The Lake Charles clay 0 to 1 percent slopes soil series is classified by the NRCS as hydric due to minor components.



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FORT BEND COUNTY, TEXAS**

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**Table 1 - Fort Bend County Soils (NRCS) mapped within the Project Area**

Soils	Sum of Acreage	Percent of Total Acreage	NRCS Hydric Rating	Rangeland Productivity
Lake Charles clay (La), 0 to 1 percent slopes	1,089.1	98.3%	Hydric by minor components	Big bluestem Florida Paspalum Switchgrass Indiangrass Eastern gamagrass Sideoats grama Vine mesquite Brownseed paspalum Little bluestem Buffalograss Silver beardgrass Pan American balsamscale Longtom Marsh bristlegrass Smutgrass White tridens Longspike tridens Sedges Virginia wildrye Texas wintergrass Carolina crabgrass Scribner's panicum
Lake Charles clay (Lb), 2 to 5 percent slopes	18.3	1.7%	Non-Hydric	Rangeland Productivity is the same as Lake Charles (La) mentioned above but differs from Lake Charles clay, 0 to 1 percent slopes, in gradient and in having thinner soil layers overlying yellowish-red underlying material
Water (W)	0.4	<0.1%	--	--
<b>TOTAL NRCS SOILS</b>	<b>1,107.8</b>	<b>100%</b>	--	--

### 3.1.3 Historical Aerials

Historical aerial imagery for a larger 1,848.3-acre area, which fully encompasses the Project Area, were reviewed dating back to 1929 and are included in **Appendix C. Table 2** includes the results of the review.

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**Table 2 - Historical Aerial Imagery Depicted within the Project Area**

<b>Year</b>	<b>Observations, Property and Adjoining Properties</b>
1929	The Project Area is vacant. Established roadways and Deer creek are visible.
1941	The Project Area and surrounding lands are undeveloped and appear to be used for agricultural purposes. Some residences are visible along FM 361 and Boothline Road. A dirt road leading to a cleared area and a pond are visible in the northern portion of the Property, but no structures are apparent. A circular man-made pond, drainage trench, a large structure, possibly a warehouse or barn, as well as several smaller small structures are visible in a clearing southeast of the Property.
1952	In the central portion of the Project Area, a small rectangular pond and some dirt roads are visible. Additional development east of the circular pond, including dirt roads, storage yards, and several structures. North of this complex, a rectangular evaporation pond is cleared. South of this complex, the ground is disturbed and roadways are visible.
1953	The Project Area is primarily vacant. Drainage ditches and a windmill are visible within the Project Area. Residences are visible along the western boundary of the Project Area along the current Fairchilds Long Point Road. Some development associated with agriculture is visible to the south of the Project Area. Deer Creek and Fairchilds Creek are visible in the adjacent properties to the south and east of the Project Area.
1964	No material changes from the previous photograph. The coverage of the aerial does not extend to the easternmost part of the Project Area.
1972	In addition to the small rectangular pond in the central portion of the Project Area, there is a small structure, potentially a house or barn.
1977	No material changes from the previous photograph.
1980	No change was apparent from the previous aerial photo.
1983	A pond is visible in the western quadrant of the Project Area. The large warehouse structure southeast of the Project Area has been demolished, and the surrounding area has been disturbed.
1989	No material change to the Project Area from the previous photograph. A new pond is visible southeast of the Project Area where the ground was previously disturbed.
1995	No material change to the Project Area from the previous photograph. Outside the eastern boundary of the Project Area, along the bend in Deer Creek, there is a new path or man-made drainage channel. A crescent-shaped area adjacent to the creek has been landscaped or graded.
2004	No material change to the Property from the previous photograph. Southeast of the Project Area, the circular pond is no longer present, and a paved road and a small building are visible. Additionally, Deer Creek was diverted, leaving a u-shaped (oxbow) pond adjacent to the new creek channel just east of the Project Area. A second pond or basin has been built in the center of the oxbow.
2008	No material changes from the previous photograph.
2012	No material changes from the previous photograph.
2016	No material changes from the previous photograph.

### 3.1.4 Level IV Ecoregion

The Project Area is in the North Humid Gulf Coastal Prairies Level IV Ecoregion (United States Environmental Protection Agency 2018). This ecoregion is described as Quaternary-age deltaic sands, silts, and clays. Original vegetation was mostly grasslands with few clusters of oaks, known as oak mottes or maritime woodlands. Soils are mostly fine-textured: clay, clay loam, or sandy clay loam.

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Within the region, there are some differences from higher Lissie Formation to the lower Beaumont Formation, both are of Pleistocene age. The Lissie Formation has lighter colored soils, mostly Alfisols and sandy clay loam surface texture, while darker, clayey soils associated with Vertisols are more typical of the Beaumont Formation.

Historical vegetation includes little bluestem (*Schizachyrium scoparium*), yellow Indiangrass (*Sorghastrum nutans*), brownseed paspalum (*Paspalum plicatulum*), gulf muhly (*Muhlenbergia capillaris*), and switchgrass (*Panicum virgatum*). Exotic Chinese tallow tree (*Triadica sebifera*) and Chinese privet (*Ligustrum sinense*) have invaded large areas in this region, but some loblolly pine (*Pinus taeda*) occurs in the northern part of the region in the transition the South-Central Plains. Almost all of the coastal prairies have been converted to cropland, rangeland, pasture, or urban land uses. Annual precipitation varies from 37 inches in the southwest portion to 58 inches in the northeast, with a summer maximum.

## **3.2 FIELD INVESTIGATION**

### **3.2.1 General Observations**

Stantec conducted field investigation on July 24-25, 2019. During the field investigation, Stantec documented that the Project Area was being utilized for agricultural crop cultivation. Woody vegetation was limited along fence-lines, riparian pathways, and drainageways. Rainfall for December and January was measured at 4.0-5.0 inches and 3.0-4.0 inches respectively. December rainfall was 129% greater than normal rainfall and January rainfall was 78% of normal rainfall. Rainfall for February – May was below normal (0-23%). June was 132% higher than normal (NOAA 2021). Across the fields, rill and gully erosion was evident and pronounced.

Two streams were delineated within the Project Area. No wetlands were identified within the Project Area during the field investigation. The location of all field delineated features and the sampling point is provided in **Appendix A, Figure 6**. Wetland determination forms completed at each sampling point within the Project Area are provided in **Appendix D**. The potential jurisdictional status of features delineated within the Project Area were determined based on Stantec's understanding of the current regulatory guidance.

### **3.2.2 Vegetation**

The majority of the Project Area was comprised of cultivated cropland consisting of corn and cotton.

Vegetation along the unnamed tributary of Fairchilds Creek (ST-01) was found to be primarily herbaceous due to its banks being completely contained within 15-foot-high vegetated banks. ST-01 was surrounded by maintained vegetated banks through most of the Project Area until it approached the northern Project Area boundary where wooded areas were observed.

Vegetation along ST-02 within the Project Area was primarily cultivated cropland that transitioned to a grassy area between the Project Area and the constructed wetland area, located on an adjacent property southeast of the Project Area.

Woody vegetation was limited to immediately outside the boundary of the Project Area along the north-northeastern boundary. This area is dominated by live oak mottes (*Quercus virginiana*).

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### 3.2.3 Soils

Soils were found to be consistent to NRCS mapped clayey soils. In the field, the soils were seen to be highly susceptible to erosion. The majority of the soils within the Project Area are mapped as Lake Charles clay by the NRCS. The NRCS describes this soil as a very dark gray (10YR 3/1) clay which is firm when moist but crumbly when dry (NRCS 2019).

### 3.2.4 Hydrology

Stantec identified and delineated two streams within the Project Area, totaling approximately 0.52 acres (5,400.3 LF). ST-01, a field verified NHD intermittent stream, was found in the northern boundary of the Project Area. ST-01 is an unnamed tributary to Fairchilds Creek and is fully encompassed by tall banks with culverts which appear to drain the adjacent fields.

ST-02 was not mapped by any public resource and appeared to be an ephemeral channel. ST-02 was identified as a small, unnamed, ephemeral stream draining towards Fairchilds Creek. Vegetation of the stream channel was not indicative of wetland vegetation as ST-02 was an area draining cropland and was largely characterized as located in a denuded area. No open waterbodies or wetland hydrology indicators were observed within the Project Area. **Table 3** details the streams delineated within the Project Area.

**Table 3 – Field Delineated Streams with the Project Area**

	<b>ST-01</b>	<b>ST-02</b>	<b>Total Delineated within Project Area</b>
Length (ft)	3,766.4	1,633.9	<b>5,400.3</b>
Width (ft)	2-10	2-3	--
Acres (ac)	0.43	0.09	<b>0.52</b>
Jurisdictional Status <sup>1</sup>	Jurisdictional	Jurisdictional	--

<sup>1</sup>Jurisdictional status determinations are based on Stantec's understanding the current regulatory guidance; however, the ultimate decision on the jurisdictional status of features rests with the USACE.

**Waters of The United States Delineation-  
Cutlass Solar II Project  
Fort Bend County, Texas**

Conclusions

## **4.0 CONCLUSIONS**

Stantec completed a WOUS delineation of the Project Area in Fort Bend County, Texas. The purpose and objective of the delineation was to identify potentially jurisdictional features within the Project Area.

The information provided by Stantec regarding potentially jurisdictional features under Section 404 of the Clean Water Act is a scientifically-based analysis of the hydrologic features, wetland, and upland conditions present on the site at the time of the fieldwork and on Stantec's understanding of the current regulatory guidance for WOUS. The ultimate decision on jurisdictional WOUS rests with the USACE. As a result, there could be adjustments to boundaries based upon review by a regulatory agency. An agency determination can vary from time to time depending on various factors including, but not limited to, updates to regulatory definitions and regional considerations. In addition, the physical characteristics of the site can change over time, depending on weather, vegetation patterns, drainage activities on adjacent parcels, or other events. These factors can change the nature and extent of the features identified on the site.

Based upon the findings of this delineation and Stantec's understanding of the current regulatory guidance, impacts to the field delineated streams may require permitting under Section 404 of the Clean Water Act. However, if impacts to the field delineated streams are avoided, permitting would not likely be required under Section 404 of the Clean Water Act (Appendix E).

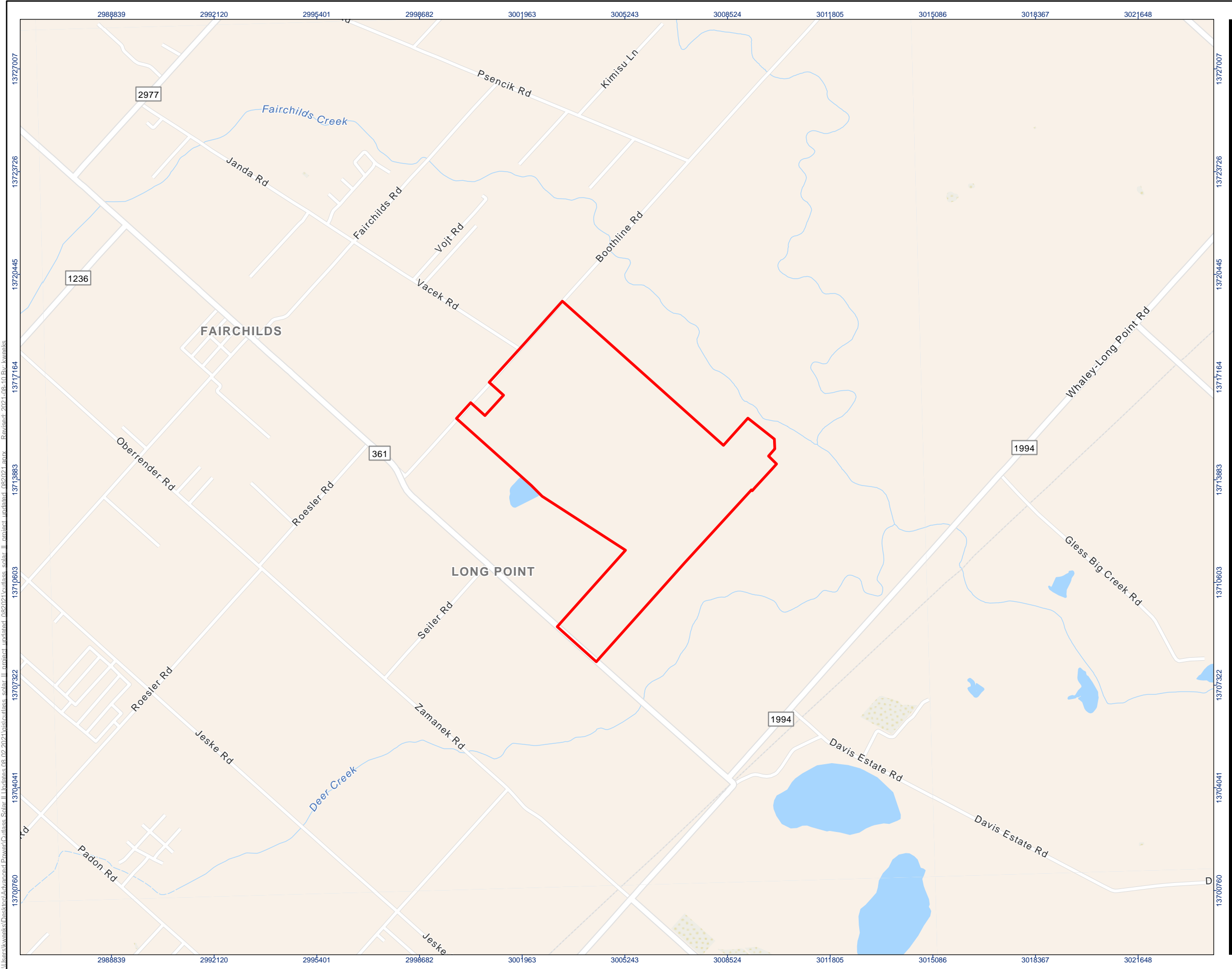
**Waters of The United States Delineation-  
Cutlass Solar II Project  
Fort Bend County, Texas**

References

## 5.0 REFERENCES

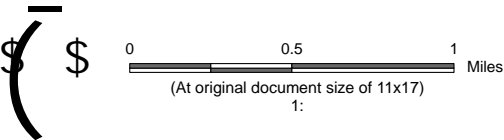
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# APPENDICES

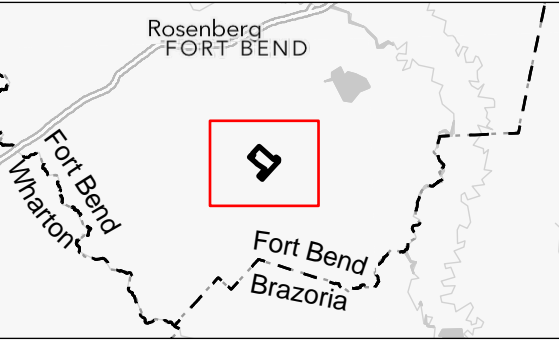


Legend

 Project Area



Notes  
1. Coordinate System: NAD83 Texas S. Central  
2. Data Sources: Cutlass Solar II LLC  
3. Background: Human Geography Label: Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS  
World Navigation Map: Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA  
Human Geography Detail: Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS



Project Location  
FORT BEND COUNTY, TX  
Prepared by SKW on 2021-08-13  
Reviewed by CM on 2021-08-13  
Reviewed by JC on 2021-08-13

Client/Project  
Cutlass Solar II LLC  
Cutlass Solar II Project  
Waters of the United States Delineation

Figure No.  
1

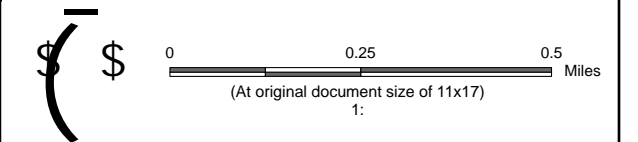
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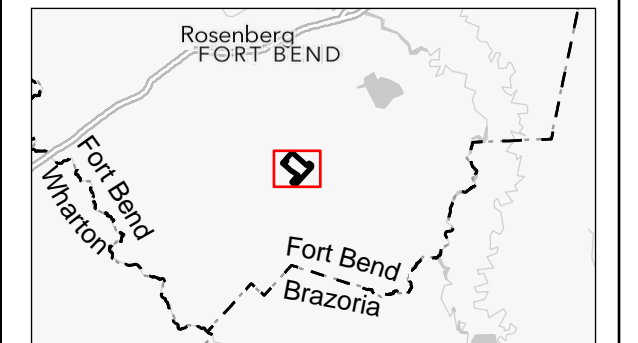


## Legend

Project Area



Notes  
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2. Data Sources: Cutlass Solar II LLC  
3. Background: World Imagery (Firefly): Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community  
Human Geography Label: Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS  
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**Project Location**  
FORT BEND COUNTY, TX

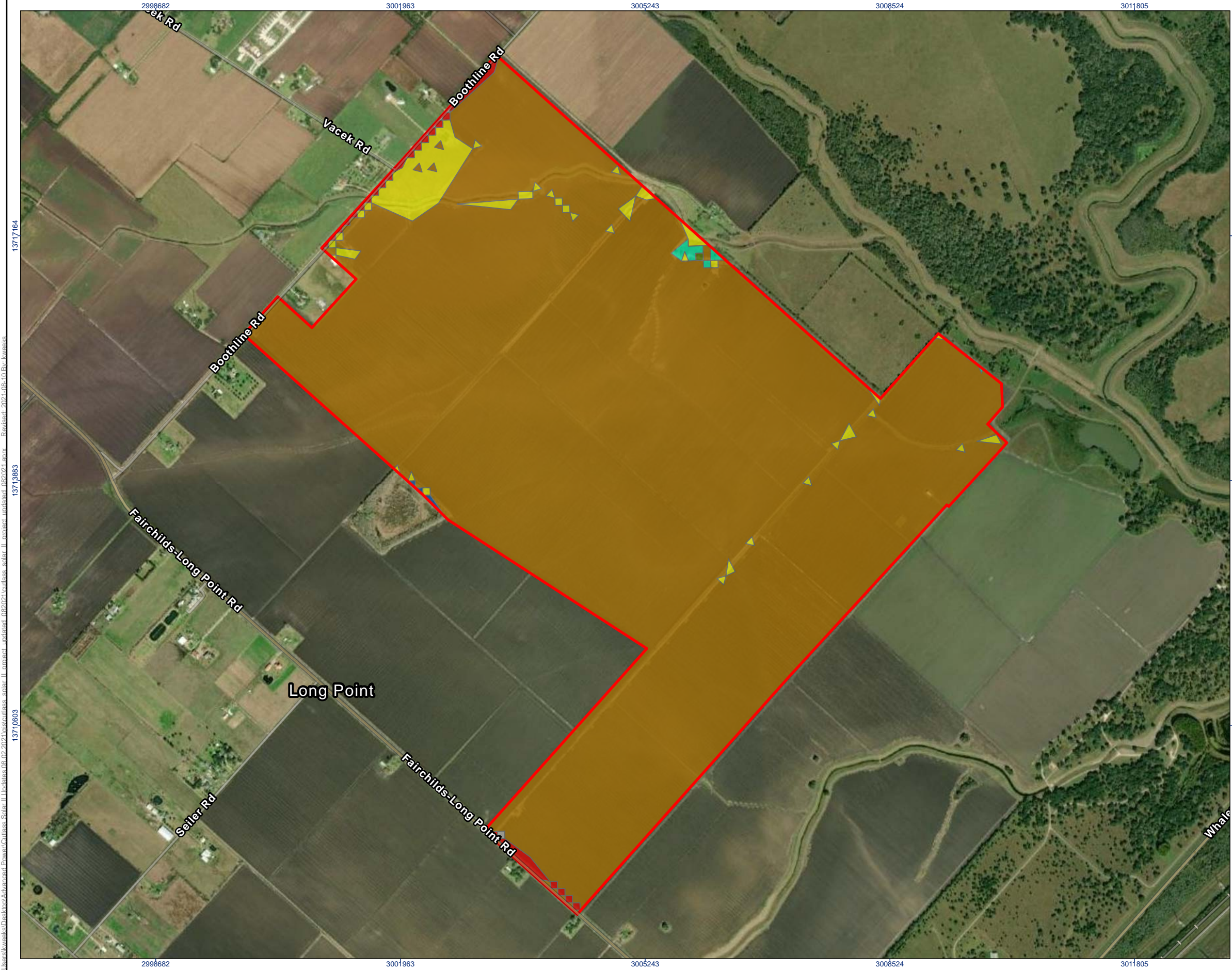
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**Client/Project**  
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Cutlass Solar II Project  
Waters of the United States Delineation

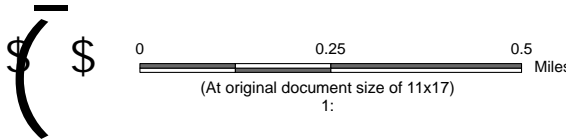
**Figure No.**  
**2**

**Title**  
**Aerial Orthophotography Map**





- Legend
- Project Area
  - USGS GAP/LANDFIRE National Terrestrial Ecosystems Data
  - Land Cover Classification
    - Cultivated Cropland
    - Deciduous Plantations
    - Developed, High Intensity
    - Developed, Low Intensity
    - Developed, Open Space
    - Gulf and Atlantic Coastal Plain Swamp Systems
    - Open Freshwater
    - Pasture / Hay



Notes

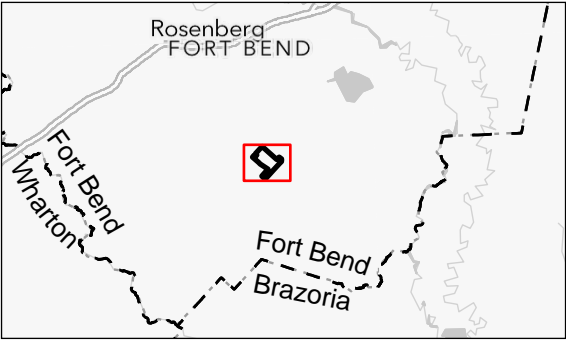
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2. Data Sources: Cutlass Solar II LLC and the USGS National Land Cover Dataset

3. Background: World Imagery (Firefly): Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Human Geography Detail: Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS



Project Location

Prepared by SKW on 2021-08-13

Reviewed by CM on 2021-08-13

Reviewed by JC on 2021-08-13

FORT BEND COUNTY, TX

Client/Project

Cutlass Solar II LLC

Cutlass Solar II Project

Waters of the United States Delineation

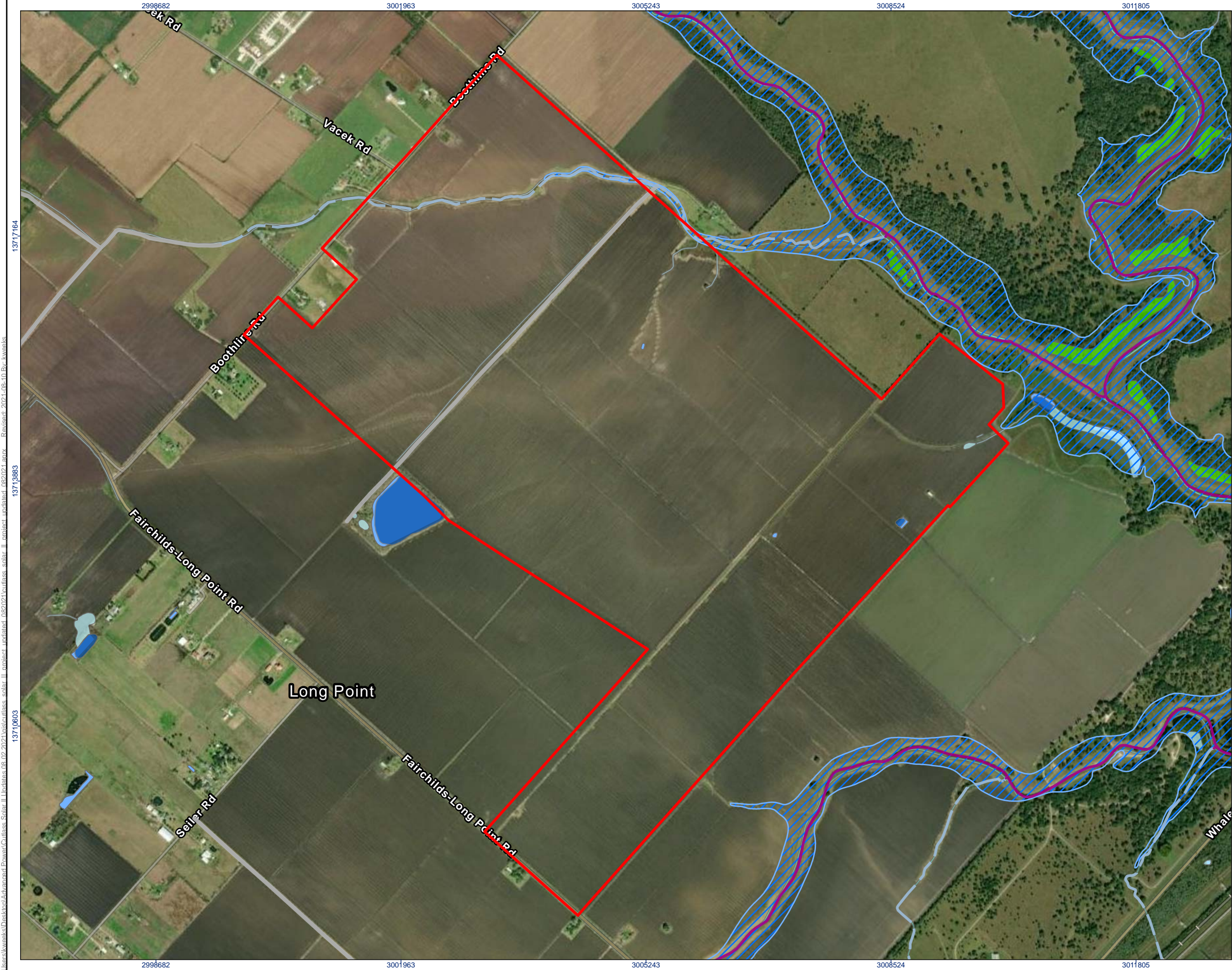
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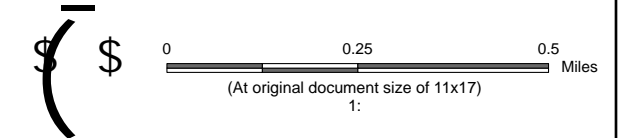
USGS GAP/LANDIRE National Terrestrial Ecosystems Data Map



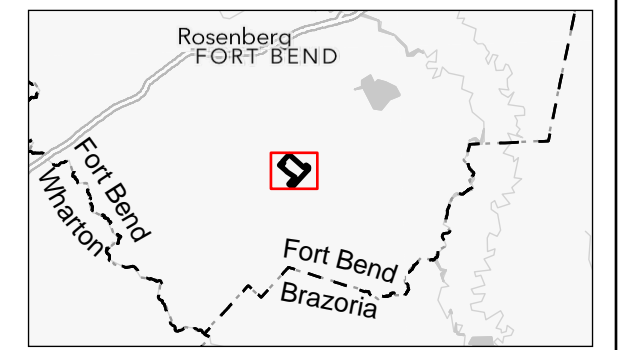


Legend

- Project Area
- FEMA Regulatory Floodplain: Zone A
- NWI Wetland
- Wetland Type
  - Freshwater Emergent Wetland
  - Freshwater Forested/Shrub Wetland
  - Freshwater Pond
  - Riverine
- NHD Waterbody
- Waterbody Type
  - Lake / Pond
- NHD Stream
- Stream Type
  - Canal / Ditch
  - Intermittent
  - Artificial Path

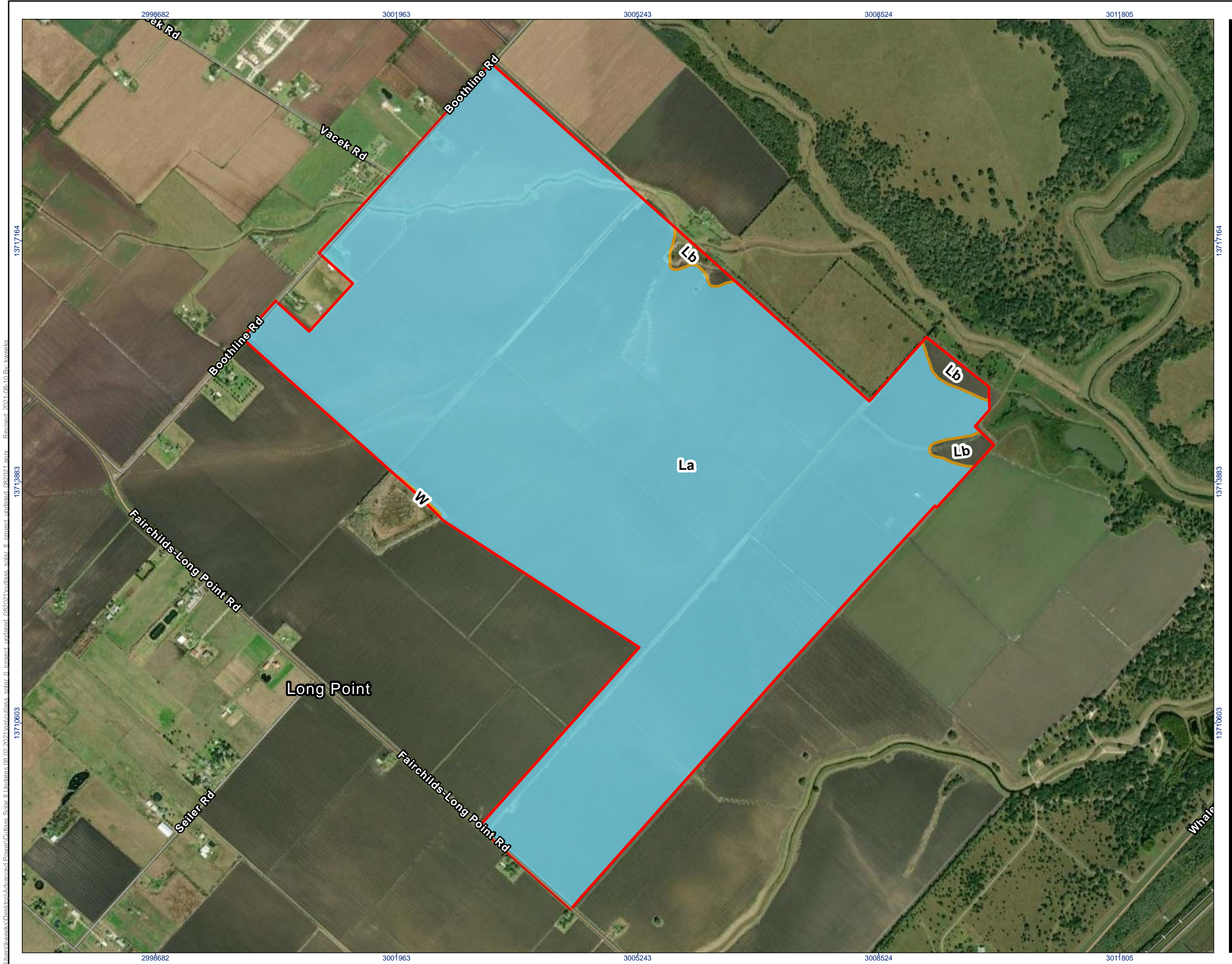


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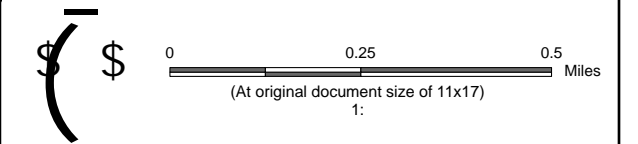
Project Location  
FORT BEND COUNTY, TX  
Client/Project  
Cutlass Solar II LLC  
Cutlass Solar II Project  
Waters of the United States Delineation  
Figure No.  
4  
Title  
NHD, NWI, and FEMA Map





## Legend

- Project Area
- NRCS Web Soil Survey Data
- Hydric Soil Rating
  - Hydric
  - Not Hydric

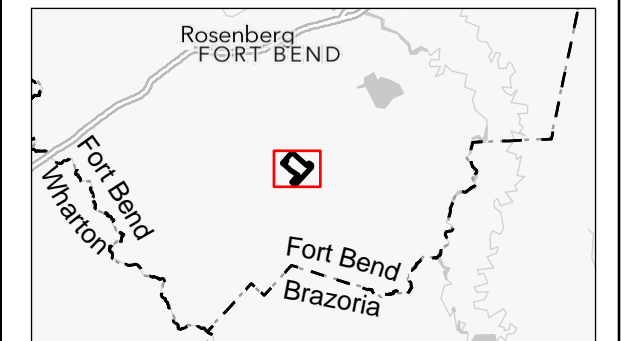


Notes

1. Coordinate System: NAD83 Texas S. Central
2. Data Sources: Cutlass Solar II LLC and the NRCS Web Soil Survey
3. Background: World Imagery (Firefly): Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Human Geography Label: Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS

Human Geography Detail: Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS



Project Location

FORT BEND COUNTY, TX

Client/Project

Cutlass Solar II LLC

Cutlass Solar II Project

Waters of the United States Delineation

Figure No.

5

Title

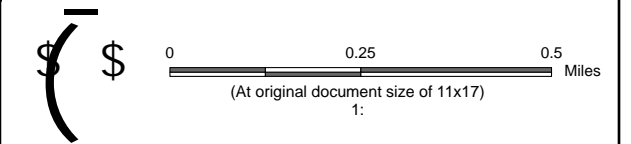
NRCS Web Soil Survey Data Map



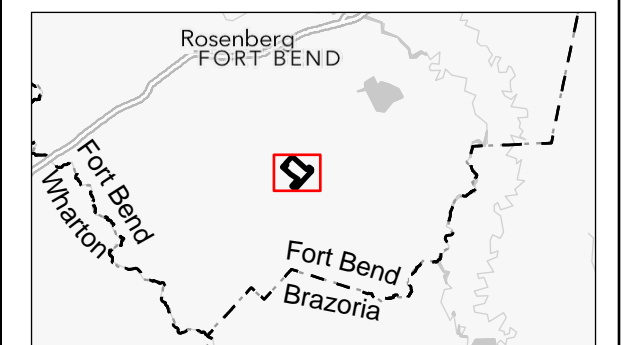


### Legend

- Project Area
- Sampling Point
- Field Delineated Stream
- Stream Type
  - Ephemeral
  - Intermittent



Notes  
1. Coordinate System: NAD83 Texas S. Central  
2. Data Sources: Cutlass Solar II LLC and Stantec Collected Data  
3. Background: World Imagery (Firefly): Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community  
Human Geography Label: Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS  
Human Geography Detail: Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS



Project Location  
FORT BEND COUNTY, TX  
Prepared by SKW on 2021-08-13  
Reviewed by CM on 2021-08-13  
Reviewed by JC on 2021-08-13

Client/Project  
Cutlass Solar II LLC  
Cutlass Solar II Project  
Waters of the United States Delineation

Figure No.  
**6**

Title  
**Field Investigation Map**



**WATERS OF THE UNITED STATES DELINEATION-  
CUTLASS SOLAR II PROJECT  
FORT BEND COUNTY, TEXAS**

Appendix A Map Figures

## **Appendix A   MAP FIGURES**

**WATERS OF THE UNITED STATES DELINEATION-  
CUTLASS SOLAR II PROJECT  
FORT BEND COUNTY, TEXAS**

Appendix B Photographic Log

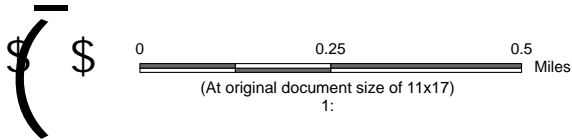
## **Appendix B   PHOTOGRAPHIC LOG**



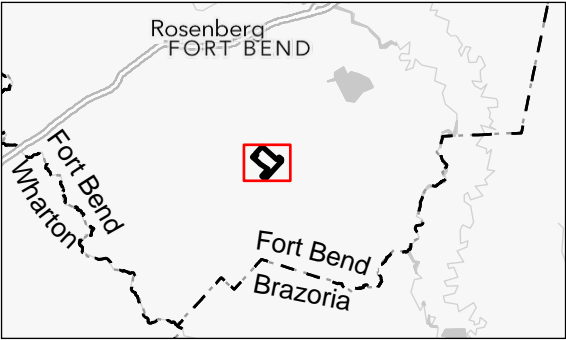


Legend

- Project Area
- Photographic Log Point



Notes  
1. Coordinate System: NAD83 Texas S. Central  
2. Data Sources: Cutlass Solar II LLC  
3. Background: World Imagery (Firefly): Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community  
Human Geography Label: Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS  
Human Geography Detail: Texas Parks & Wildlife, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS





Project Location  
FORT BEND COUNTY, TX  
Prepared by SKW on 2021-08-13  
Reviewed by CM on 2021-08-13  
Reviewed by JC on 2021-08-13


Client/Project  
Cutlass Solar II LLC  
Cutlass Solar II Project  
Waters of the United States Delineation

Figure No.  
**Appendix B**  
Title  
**Photographic Log Map**





<b>Client:</b>	<b>Cutlass Solar II LLC</b>	<b>Project:</b>	<b>Waters of the United States Delineation</b>
<b>Project Name:</b>	<b>Cutlass Solar II Project</b>	<b>Project Location:</b>	<b>Fort Bend County, Texas</b>
<b>Photograph ID: 1</b>			
<b>Photo Location:</b> Sampling Point 1			
<b>Direction:</b> NE			
<b>Survey Date:</b> 7/24/2019			
<b>Comments:</b> Representative view of an upland herbaceous point taken within the Project Area.			
<b>Photograph ID: 2</b>			
<b>Photo Location:</b> ST-01			
<b>Direction:</b> E			
<b>Survey Date:</b> 7/25/2019			
<b>Comments:</b> Downstream view of ST-01, an intermittent stream.			



<b>Client:</b>	<b>Cutlass Solar II LLC</b>	<b>Project:</b>	<b>Waters of the United States Delineation</b>
<b>Project Name:</b>	<b>Cutlass Solar II Project</b>	<b>Project Location:</b>	<b>Fort Bend County, Texas</b>
<b>Photograph ID:</b> 3			
<b>Photo Location:</b> ST-01			
<b>Direction:</b> NW			
<b>Survey Date:</b> 7/25/2019			
<b>Comments:</b> Upstream view of ST-01, an intermittent stream.			
<b>Photograph ID:</b> 4			
<b>Photo Location:</b> ST-01			
<b>Direction:</b> SE			
<b>Survey Date:</b> 7/25/2019			
<b>Comments:</b> Downstream view of ST-01, an intermittent stream.			

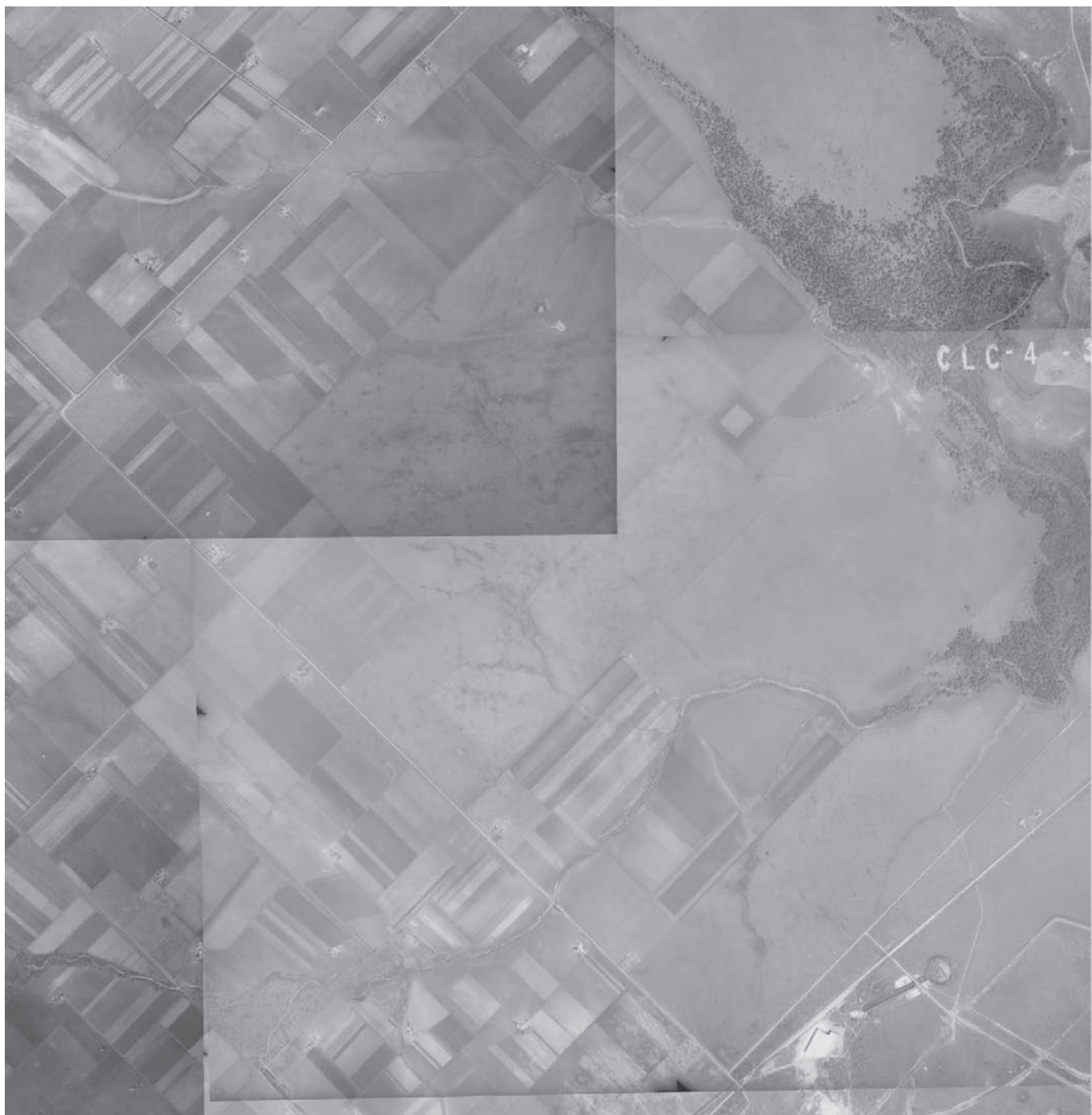


<b>Client:</b>	<b>Cutlass Solar II LLC</b>	<b>Project:</b>	<b>Waters of the United States Delineation</b>
<b>Project Name:</b>	<b>Cutlass Solar II Project</b>	<b>Project Location:</b>	<b>Fort Bend County, Texas</b>
<b>Photograph ID: 5</b>			
<b>Photo Location:</b> ST-02			
<b>Direction:</b> SW			
<b>Survey Date:</b> 7/25/2019			
<b>Comments:</b> Upstream view of ST-02, an ephemeral stream. Representative view of the stream flowing northeast. Picture was taken on the Project boundary, facing southwest into the Project Area.			
<b>Photograph ID: 6</b>			
<b>Photo Location:</b> ST-02			
<b>Direction:</b> NE			
<b>Survey Date:</b> 7/25/2019			
<b>Comments:</b> Downstream view of ST-02, an ephemeral stream. Representative view of the stream flowing northeast, out of the Project Area. Picture was taken on the Project boundary, facing northeast outside of the Project Area.			

**WATERS OF THE UNITED STATES DELINEATION-  
CUTLASS SOLAR II PROJECT  
FORT BEND COUNTY, TEXAS**

Appendix C Historical Aerial Imagery

## **Appendix C   HISTORICAL AERIAL IMAGERY**



























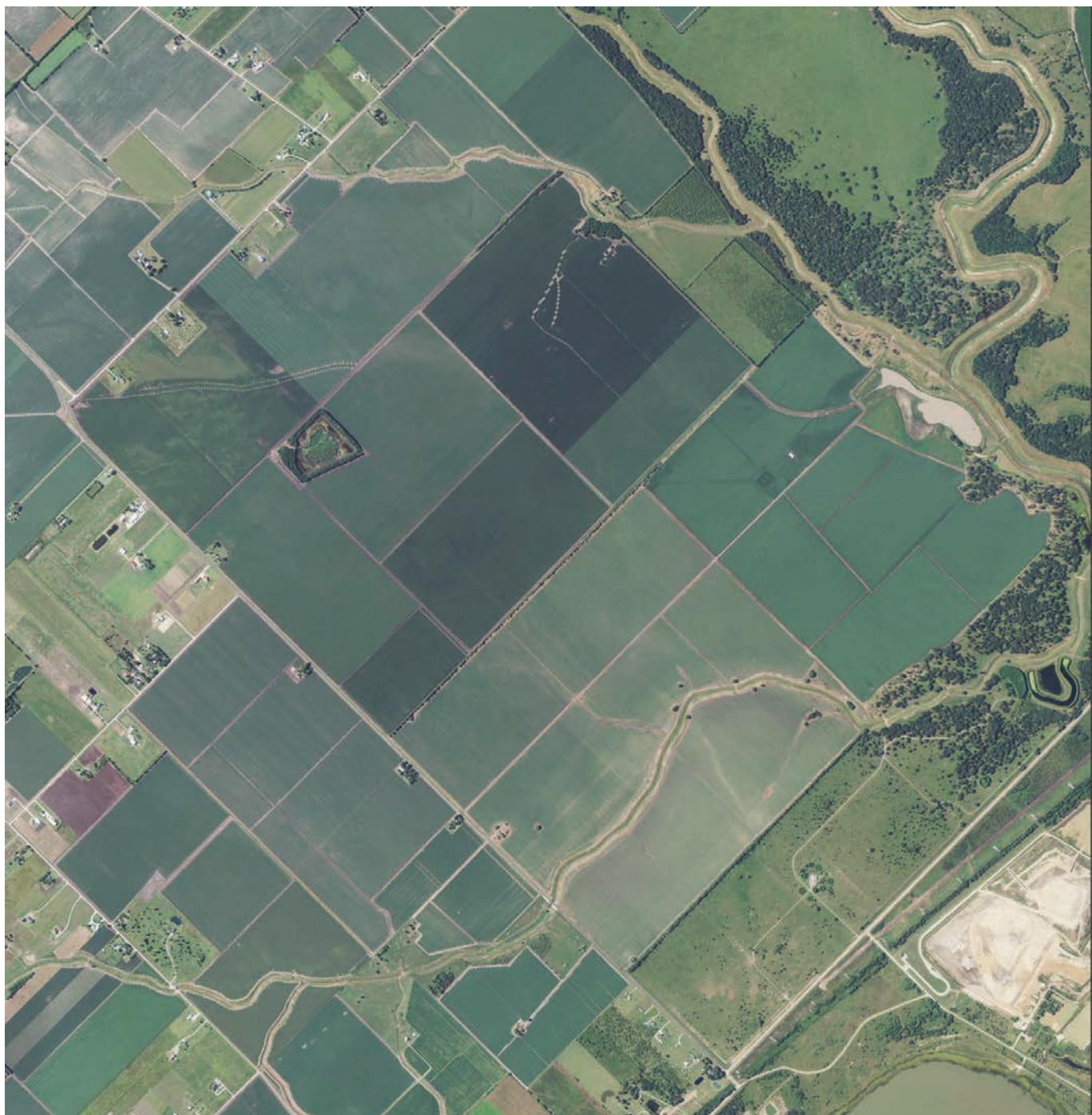


















**WATERS OF THE UNITED STATES DELINEATION-  
CUTLASS SOLAR II PROJECT  
FORT BEND COUNTY, TEXAS**

Appendix D Wetland Determination Forms

## **Appendix D   WETLAND DETERMINATION FORMS**

<b>U.S. Army Corps of Engineers</b> <b>WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region</b> See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	--

Project/Site: <u>Cutlass Solar II Project</u>	City/County: <u>Fort Bend County</u>	Sampling Date: <u>07/25/2019</u>
Applicant/Owner: <u>Cutlass Solar II LLC</u>	State: <u>TX</u>	Sampling Point: <u>Sampling Point 1</u>
Investigator(s): <u>Sunico, S.</u>	Section, Township, Range: <u>N/A</u>	
Landform (hillside, terrace, etc.): <u>Culvert/Ditch</u>	Local relief (concave, convex, none): <u>Concave</u>	Slope (%): <u>3-5%</u>
Subregion (LRR or MLRA): <u>LRR P, MLRA 133A</u>	Lat: <u>29.4256</u>	Long: <u>-95.7417</u> Datum: <u>NAD83</u>
Soil Map Unit Name: <u>Lake Charles Clay (La)</u>	NW1 classification: <u>None</u>	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No <u>      </u> (If no, explain in Remarks.)		
Are Vegetation <u>      </u> , Soil <u>      </u> , or Hydrology <u>      </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No <u>      </u>		
Are Vegetation <u>      </u> , Soil <u>      </u> , or Hydrology <u>      </u> naturally problematic? (If needed, explain any answers in Remarks.)		

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>      </u> No <u>X</u> Hydric Soil Present? Yes <u>X</u> No <u>      </u> Wetland Hydrology Present? Yes <u>      </u> No <u>X</u>	<table style="width: 100%;"> <tr> <td style="width: 60%;"><b>Is the Sampled Area within a Wetland?</b></td> <td style="width: 40%;">Yes <u>      </u> No <u>X</u></td> </tr> </table>	<b>Is the Sampled Area within a Wetland?</b>	Yes <u>      </u> No <u>X</u>
<b>Is the Sampled Area within a Wetland?</b>	Yes <u>      </u> No <u>X</u>		
Remarks: Wetland hydrology and hydrophytic vegetation are absent. Hydric soils are present, however, this point is not considered a wetland.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <u>      </u> Surface Water (A1)  <u>      </u> High Water Table (A2)  <u>      </u> Saturation (A3)  <u>      </u> Water Marks (B1)  <u>      </u> Sediment Deposits (B2)  <u>      </u> Drift Deposits (B3)  <u>      </u> Algal Mat or Crust (B4)  <u>      </u> Iron Deposits (B5)  <u>      </u> Inundation Visible on Aerial Imagery (B7)  <u>      </u> Water-Stained Leaves (B9)           </div> <div style="width: 50%;"> <u>      </u> Aquatic Fauna (B13)  <u>      </u> Marl Deposits (B15) <b>(LRR U)</b>  <u>      </u> Hydrogen Sulfide Odor (C1)  <u>      </u> Oxidized Rhizospheres on Living Roots (C3)  <u>      </u> Presence of Reduced Iron (C4)  <u>      </u> Recent Iron Reduction in Tilled Soils (C6)  <u>      </u> Thin Muck Surface (C7)  <u>      </u> Other (Explain in Remarks)           </div> </div>		<u>Secondary Indicators (minimum of two required)</u> <u>      </u> Surface Soil Cracks (B6) <u>      </u> Sparsely Vegetated Concave Surface (B8) <u>      </u> Drainage Patterns (B10) <u>      </u> Moss Trim Lines (B16) <u>      </u> Dry-Season Water Table (C2) <u>      </u> Crayfish Burrows (C8) <u>      </u> Saturation Visible on Aerial Imagery (C9) <u>      </u> Geomorphic Position (D2) <u>      </u> Shallow Aquitard (D3) <u>      </u> FAC-Neutral Test (D5) <u>      </u> Sphagnum Moss (D8) <b>(LRR T, U)</b>
<b>Field Observations:</b> Surface Water Present? Yes <u>      </u> No <u>      </u> Depth (inches): <u>      </u> Water Table Present? Yes <u>      </u> No <u>      </u> Depth (inches): <u>      </u> Saturation Present? Yes <u>      </u> No <u>      </u> Depth (inches): <u>      </u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>      </u> No <u>X</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

**VEGETATION (Four Strata) – Use scientific names of plants.**

 Sampling Point: Sampling Point 1

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)  Total Number of Dominant Species Across All Strata: <u>1</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
_____ = Total Cover				<b>Prevalence Index worksheet:</b>  <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>100</u></td> <td>x 4 = <u>400</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>400</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>100</u>	x 4 = <u>400</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>400</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>100</u>	x 4 = <u>400</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>400</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
50% of total cover: _____ 20% of total cover: _____																				
Sapling/Shrub Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
_____ = Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Herb Stratum (Plot size: <u>5 feet</u> )																				
1. <u>Cynodon dactylon</u>	<u>100</u>	<u>Yes</u>	<u>FACU</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
_____ = Total Cover																				
50% of total cover: <u>50</u> 20% of total cover: <u>20</u>																				
Woody Vine Stratum (Plot size: _____)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
_____ = Total Cover																				
50% of total cover: _____ 20% of total cover: _____																				
Remarks: (If observed, list morphological adaptations below.)																				

**Hydrophytic Vegetation Indicators:**  
 \_\_\_\_\_ 1 - Rapid Test for Hydrophytic Vegetation  
 \_\_\_\_\_ 2 - Dominance Test is >50%  
 \_\_\_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

**Definitions of Four Vegetation Strata:**  
  
**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  
  
**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  
  
**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  
  
**Woody Vine** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?**      Yes \_\_\_\_\_      No X

## SOIL

Sampling Point: Sampling Point 1

<b>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)</b>								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 3/1	98	10YR 4/6	2	C	M	Loamy/Clayey	Prominent redox concentrations
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.			
<b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>					<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>			
<input type="checkbox"/> Histosol (A1)			<input type="checkbox"/> Thin Dark Surface (S9) <b>(LRR S, T, U)</b>		<input type="checkbox"/> 1 cm Muck (A9) <b>(LRR O)</b>			
<input type="checkbox"/> Histic Epipedon (A2)			<input type="checkbox"/> Barrier Islands 1 cm Muck (S12)		<input type="checkbox"/> 2 cm Muck (A10) <b>(LRR S)</b>			
<input type="checkbox"/> Black Histic (A3)			<input type="checkbox"/> <b>(MLRA 153B, 153D)</b>		<input type="checkbox"/> Coast Prairie Redox (A16)			
<input type="checkbox"/> Hydrogen Sulfide (A4)			<input type="checkbox"/> Loamy Mucky Mineral (F1) <b>(LRR O)</b>		<input type="checkbox"/> <b>(outside MLRA 150A)</b>			
<input type="checkbox"/> Stratified Layers (A5)			<input type="checkbox"/> Loamy Gleyed Matrix (F2)		<input type="checkbox"/> Reduced Vertic (F18)			
<input type="checkbox"/> Organic Bodies (A6) <b>(LRR P, T, U)</b>			<input type="checkbox"/> Depleted Matrix (F3)		<input type="checkbox"/> <b>(outside MLRA 150A, 150B)</b>			
<input type="checkbox"/> 5 cm Mucky Mineral (A7) <b>(LRR P, T, U)</b>	<input checked="" type="checkbox"/>		<input type="checkbox"/> Redox Dark Surface (F6)		<input type="checkbox"/> Piedmont Floodplain Soils (F19) <b>(LRR P, T)</b>			
<input type="checkbox"/> Muck Presence (A8) <b>(LRR U)</b>			<input type="checkbox"/> Depleted Dark Surface (F7)		<input type="checkbox"/> Anomalous Bright Floodplain Soils (F20)			
<input type="checkbox"/> 1 cm Muck (A9) <b>(LRR P, T)</b>			<input type="checkbox"/> Redox Depressions (F8)		<input type="checkbox"/> <b>(MLRA 153B)</b>			
<input type="checkbox"/> Depleted Below Dark Surface (A11)			<input type="checkbox"/> Marl (F10) <b>(LRR U)</b>		<input type="checkbox"/> Red Parent Material (F21)			
<input type="checkbox"/> Thick Dark Surface (A12)			<input type="checkbox"/> Depleted Ochric (F11) <b>(MLRA 151)</b>		<input type="checkbox"/> Very Shallow Dark Surface (F22)			
<input type="checkbox"/> Coast Prairie Redox (A16) <b>(MLRA 150A)</b>			<input type="checkbox"/> Iron-Manganese Masses (F12) <b>(LRR O, P, T)</b>		<input type="checkbox"/> <b>(outside MLRA 138, 152A in FL, 154)</b>			
<input type="checkbox"/> Sandy Mucky Mineral (S1) <b>(LRR O, S)</b>	<input checked="" type="checkbox"/>		<input type="checkbox"/> Umbric Surface (F13) <b>(LRR P, T, U)</b>		<input type="checkbox"/> Barrier Islands Low Chroma Matrix (TS7)			
<input type="checkbox"/> Sandy Gleyed Matrix (S4)			<input type="checkbox"/> Delta Ochric (F17) <b>(MLRA 151)</b>		<input type="checkbox"/> <b>(MLRA 153B, 153D)</b>			
<input type="checkbox"/> Sandy Redox (S5)			<input type="checkbox"/> Reduced Vertic (F18) <b>(MLRA 150A, 150B)</b>		<input type="checkbox"/> Other (Explain in Remarks)			
<input type="checkbox"/> Stripped Matrix (S6)			<input type="checkbox"/> Piedmont Floodplain Soils (F19) <b>(MLRA 149A)</b>					
<input type="checkbox"/> Dark Surface (S7) <b>(LRR P, S, T, U)</b>			<input type="checkbox"/> Anomalous Bright Floodplain Soils (F20)					
<input type="checkbox"/> Polyvalue Below Surface (S8)			<input type="checkbox"/> <b>(MLRA 149A, 153C, 153D)</b>					
<input type="checkbox"/> <b>(LRR S, T, U)</b>			<input type="checkbox"/> Very Shallow Dark Surface (F22)					
			<input type="checkbox"/> <b>(MLRA 138, 152A in FL, 154)</b>					
<b>Restrictive Layer (if observed):</b>								
Type: _____								
Depth (inches): _____								
					<b>Hydric Soil Present?      Yes <input checked="" type="checkbox"/>      No _____</b>			
Remarks:								

**WATERS OF THE UNITED STATES DELINEATION-  
CUTLASS SOLAR II PROJECT  
FORT BEND COUNTY, TEXAS**

Appendix E Addendum

## **Appendix E   ADDENDUM**

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

File: 225600145  
Addendum No: 1 – Attachment E to the Waters of the United States Delineation Report for the Cutlass Solar II Project, Fort Bend County, Texas (Dated August 12, 2019, and Revised September 30, 2021)  
Date: September 30, 2021  
Revised: February 2, 2022  
Owner: Cutlass Solar II LLC  
Contract No. NA

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This addendum is to be read with and constitutes part of the tender document.

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Following the completion of the preceding Waters of the United States (WOUS) Delineation Report for the Cutlass Solar II Project (Project), prepared on August 12, 2019, and revised on September 30, 2021, Stantec Consulting Services (Stantec) and Cutlass Solar II LLC (Client) had several phone conversations in which strategies to reduce impacts to the potentially jurisdictional features previously identified were discussed. In these discussions, Stantec and the Client discussed several permitting options including seeking coverage under the Nationwide Permit program (NWP) and notification thresholds associated with the NWP. A minimum setback of 50 feet from potentially jurisdictional WOUS features and FEMA 100-year regulatory floodplain was discussed with the Client to avoid impacts, with the exception of two fence locations, where a minimum 10-foot setback from potentially jurisdictional WOUS features will be applied for fence post installations.

In August 2021 and February 2022, the Client provided Stantec with a digital file depicting the Project boundary and constraints existing within the boundary of the Project and a water gap swing gate detail, respectively (attached). Based upon the hatched area shown as “Developable Area”, it appears that the Client will be setting back at least 50 feet from potentially jurisdictional features (ST-01 and ST-02) and the FEMA mapped regulatory 100-year floodplain identified in the preceding report. Additionally, based upon the water gap swing gate detail, a minimum setback of 10 feet, measured from the middle of the stream bed on either side, will be implemented along ST-01 where fence post installations are proposed. Given these setbacks, no impacts to potentially jurisdictional WOUS and the 100-year floodplain are anticipated to result from the Project and coordination with USACE Galveston District under Section 404 of the Clean Water Act or with the Fort Bend County Floodplain Administrator under the National Flood Insurance Program is not required.

September 30, 2021  
Revised: February 2, 2022  
Cutlass Solar II LLC  
Page 2 of 2

**Stantec Consulting Services Inc.**



**Colleen Moss**  
Environmental Scientist

Phone: (832)-612-9331

[colleen.moss@stantec.com](mailto:colleen.moss@stantec.com)



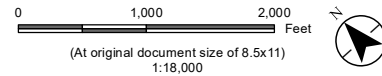
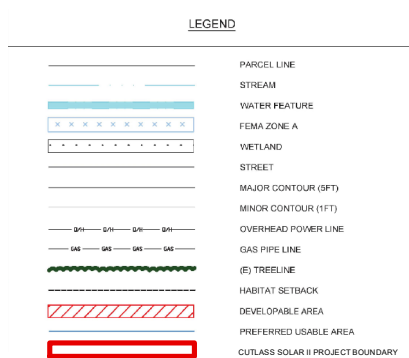
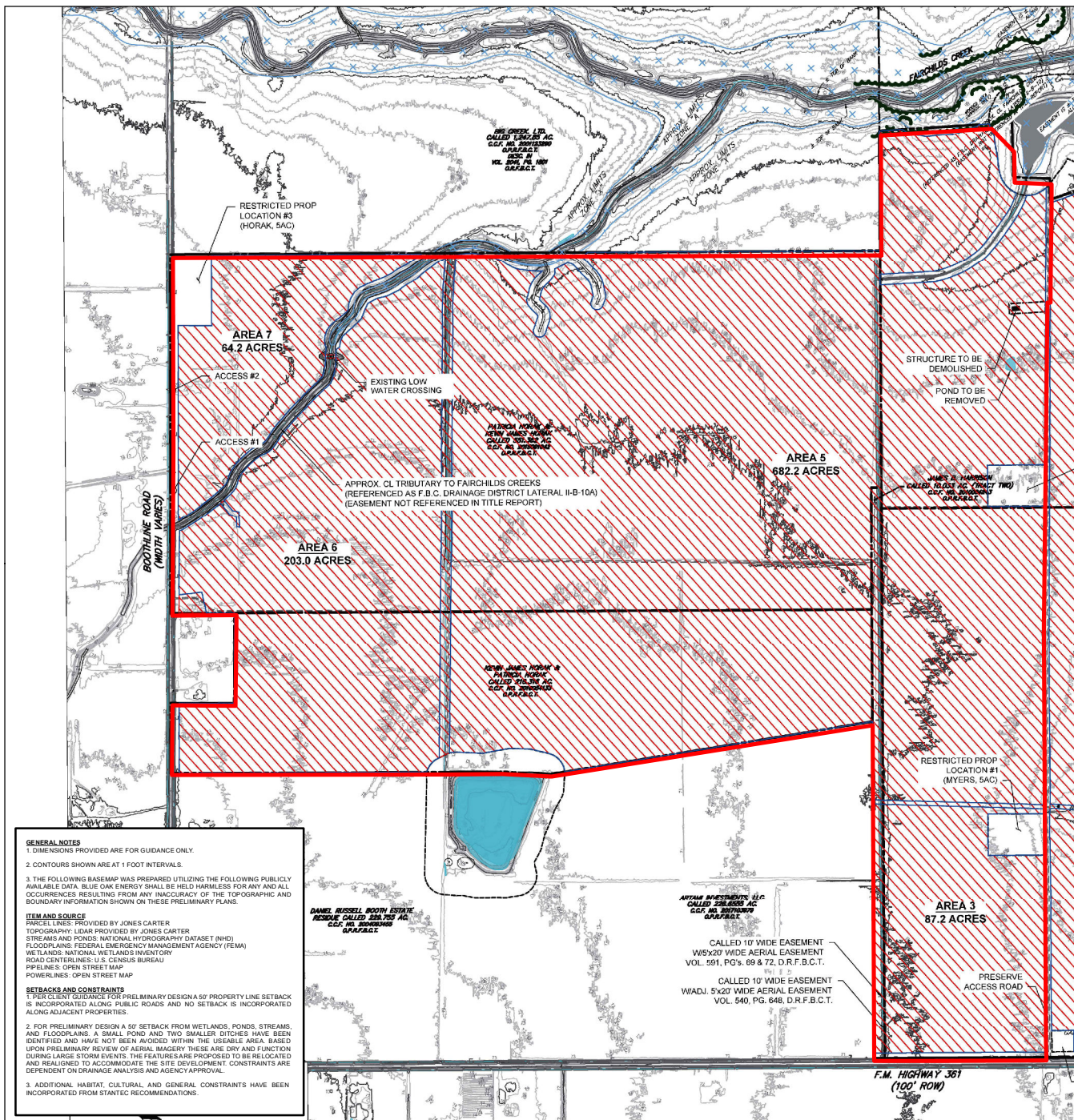
**Justin Casey**  
Senior Biologist

Phone: (850)-525-3755

[justin.casey@stantec.com](mailto:justin.casey@stantec.com)

Attachment: Existing Constraints Map and Water Gap Swing Gate Detail





Project Location	Prepared by JPA on 2021-09-21
Fort Bend County	TR by ABC on 2019-01-01
Texas	IR Review by ABC on 2019-01-01
Client/Project	225600145

Cutlass Solar II LLC  
Cutlass Solar II

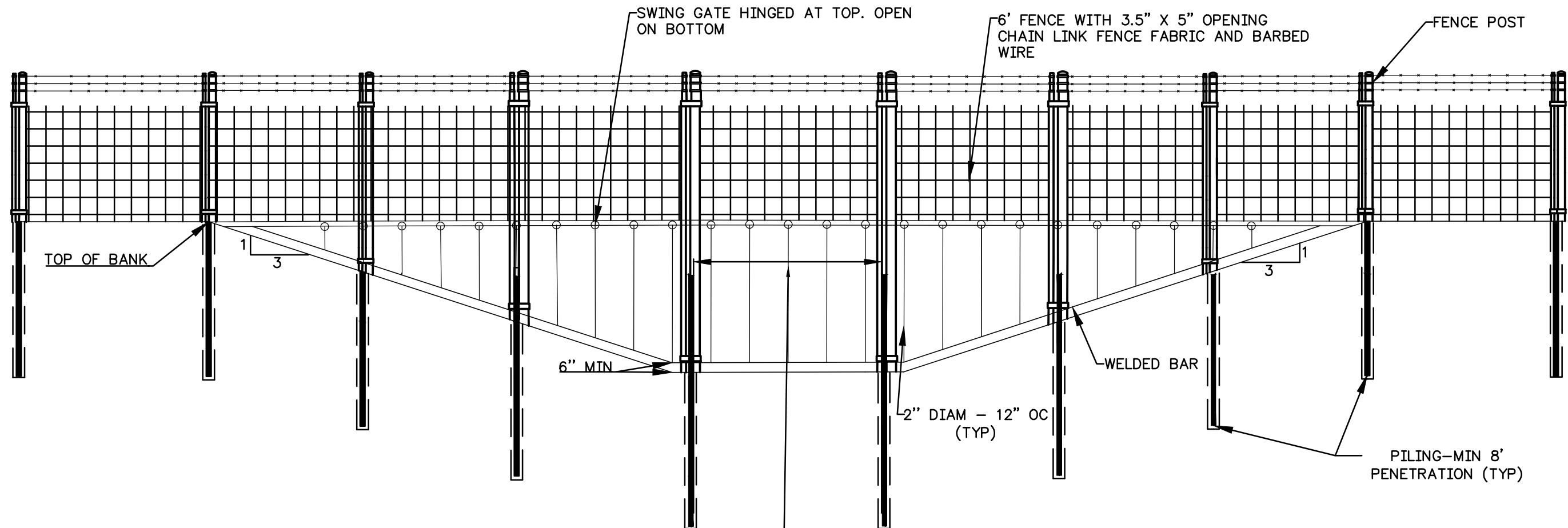
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## Title

**DRAFT**



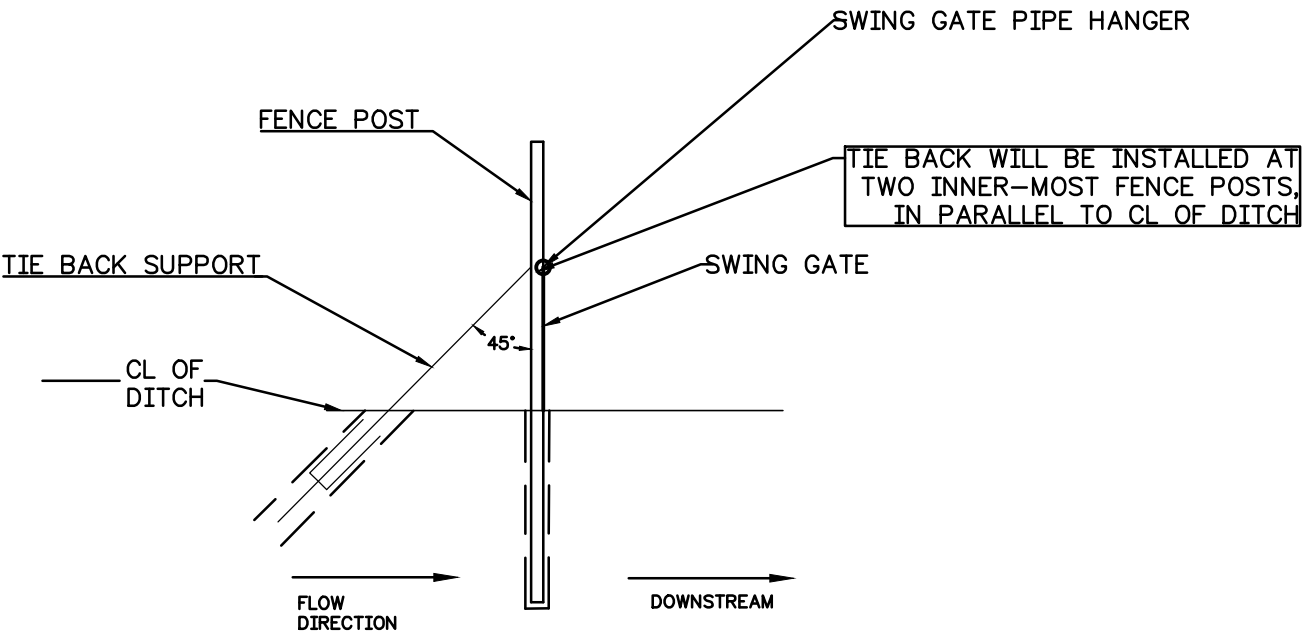
K:\16644\16644-0002-00 Cutlass Solar II Panel Farm\2 Design Phase\CAD\Exhibits\20220207-Cutlass Water Gap Swing Gate.dwg msm1: February 09, 2022



MINIMUM DISTANCE  
BETWEEN FENCE POST  
PER NOTE 3

- NOTE:
1. Swing Gate for graphical representation only. Swing Gate to be approved by owner and Drainage District prior to construction.
  2. Contractor will be required to provide a cut sheet to owner and FBC Drainage District prior to installing.
  3. Two inner—most fence posts and associated tie back supports to be installed no less than 10 feet from the outer edges of the stream (ST-01) identified wetlands report. ST-01 position/width to be field verified at fence crossing locations.

**WATER GAP SWING GATE DETAIL**  
N.T.S.



**CUTLASS SOLAR II PROJECT**  
**WATER GAP SWING GATE AT FAIRCHILDS LATERAL**  
NTS