



3512 S Shackelford Road  
Little Rock, AR 72205  
D (501) 943-1029  
M (870) 615-4232  
[cvickers@pmico.com](mailto:cvickers@pmico.com)

July 16<sup>th</sup>, 2024

United States Army Corps of Engineers  
Little Rock District – Regulatory Division  
700 West Capitol, Room 7530  
Little Rock, Arkansas 72201

RE: Scenic Hill Solar – Bryant, AR  
Scenic Hill Solar – USACE Delineation & Concurrence

Dear Sir or Madam,

PMI visited the proposed Scenic Hill Solar Bryant site on July 12<sup>th</sup>, 2024, and July 15<sup>th</sup>, 2024, to conduct a wetland and stream delineation. The proposed site is located approximately 0.1 miles east from the intersection between Zuber Road and Lena Drive in Byant, Arkansas. Refer to Appendix A Site Maps for the approximate property boundary. Scenic Hill Solar anticipates construction in the near future and requests a United States Army Corps of Engineers (USACE) concurrence letter on this site.

### **Jurisdictional Findings**

PMI conducted a wetland and stream delineation regarding the presence of jurisdictional wetlands and waters of the United States. The property was investigated for the presence of hydrophytic vegetation, hydric soils, and wetland hydrology as the three parameters required by the USACE wetland determination data form. Three streams, three wetlands, and one pond were identified on the property during the site visit. Data points reflecting these findings are attached as Appendix B and site photographs are attached as Appendix C.

### **Intermittent Stream A**

Intermittent Stream A is a jurisdictional stream that flows from east to southwest and is approximately 1,544 linear feet within the site. This stream is an unnamed tributary to Hurricane Creek. Good flow and a well-defined bed and bank were noted at the time of the site visit. The presence of minnows was also noted during the site visit. Soils are mapped as the hydric unit Caddo-Messer variants complex.

### **Intermittent Stream B**

Intermittent Stream B is a jurisdictional stream that flows from north to southwest and is approximately 380 linear feet within the site. This stream is an unnamed tributary to Hurricane Creek. Good flow and a well-defined bed and bank were noted at the time of the site visit. The presence of minnows was also noted during the site visit. Soils are mapped as the hydric unit Caddo-Messer variants complex.

### **Ephemeral Stream C**

Ephemeral Stream C is a nonjurisdictional roadside ditch that flows from north to south and is approximately 916 linear feet within the site. This stream is an unnamed tributary to Hurricane Creek. Poor flow and a poorly defined bed and bank were noted at the time of the site visit. This stream is nonjurisdictional due to the poor stream characteristics noted at the time of the site visit. Soils are mapped as the hydric unit Caddo-Messer variants complex and Carnasaw-Townley association, undulating. Ephemeral Stream C is considered nonjurisdictional and was mapped for planning purposes.

### **Ponds**

Jurisdictional Pond A is located in the central western portion of the property and is approximately 0.1 acres within the site. Pond A has a hydrological surface connection to downgradient features through Intermittent Stream A. Soils are mapped as the hydric unit Caddo-Messer variants complex.

### **Jurisdictional Wetland A**

Wetland A is located in the central western portion of the property and is approximately 0.1 acres within the site. The jurisdictional wetland is connected to Intermittent Stream A and is associated with Wetland Data Point 1. Wetland hydrology indicators consisted of saturation, drift deposits, and water-stained leaves at the time of the site visit. Vegetation within the wetland consisted of *Quercus falcata*, *Acer negundo*, and *Elephantopus nudatus*. Soils are mapped as the hydric unit Caddo-Messer variants complex, and in-field samples revealed a hydric soil.

### **Jurisdictional Wetland B**

Wetland B is located in the southwestern portion of the property and is approximately 0.4 acres within the site. The jurisdictional wetland is connected to Intermittent Stream A and is associated with Wetland Data Point 3. Wetland hydrology indicators consisted of surface water, surface saturation, drift deposits, and water-stained leaves at the time of the site visit. Vegetation within the wetland consisted of *Quercus falcata*, *Acer negundo*, *Ulmus americana*, *Alternanthera*

**Explore with us**

*philoxeroides*, and *Ludwigia alternifolia*. Soils are mapped as the hydric unit Caddo-Messer variants complex, and in-field samples revealed a hydric soil.

### **Jurisdictional Wetland C**

Wetland C is located in the northeastern portion of the property and is approximately 0.5 acres within the site. The jurisdictional wetland is connected to Intermittent Stream A and is associated with Wetland Data Point 8. Wetland hydrology indicators consisted of surface water, surface saturation and water-stained leaves at the time of the site visit. Vegetation within the wetland consisted of *Quercus falcata*, *Acer negundo*, *Ampelopsis arborea*, and *Alternanthera philoxeroides*. Soils are mapped as the hydric unit Caddo-Messer variants complex, and in-field samples revealed a hydric soil.

### **Upland Data Points**

Five upland data points were recorded during the site visit and are attached as Appendix B. These data points are representative of the upland portions of the site which consists of wooded areas.

Data Point 2 is located in the central western portion of the site. Wetland hydrology indicators were not present at the time of the site visit. Vegetation consisted of *Quercus falcata*, *Acer negundo*, and *Ulmus americana*. Soils are mapped as the hydric unit Caddo-Messer variants complex, and in-field samples revealed a hydric soil.

Data Point 4 is located in the western portion of the site. Wetland hydrology indicators were not present at the time of the site visit. Vegetation consisted of *Quercus falcata*, *Acer negundo*, *Ulmus americana*, and *Ambrosia artemisiifolia*. Soils are mapped as the hydric unit Caddo-Messer variants complex, but in-field samples revealed a non-hydric soil.

Data Point 5 is located in the northwestern portion of the site. Wetland hydrology indicators were not present at the time of the site visit. Vegetation consisted of *Plantanus occidentalis*, *Pinus taeda*, and *Carya ovata*. Soils are mapped as the hydric unit Caddo-Messer variants complex, and in-field samples revealed a hydric soil.

Data Point 6 is located in the southeastern portion of the site. Wetland hydrology indicators were not present at the time of the site visit. Vegetation consisted of *Pinus taeda* and *Coptis trifolia*. Soils are mapped as the non-hydric unit Carnasaw-Towley association, undulating, and in-field samples revealed a non-hydric soil.

Data Point 7 is located in the northeastern portion of the site. Wetland hydrology indicators were not present at the time of the site visit. Vegetation consisted of *Quercus falcata*, *Quercus phellos*,

*Ludwigia alternifolia*, *Verbesina virginica*, and *Senecia hieraciifolius*. Soils are mapped as the hydric unit Caddo-Messer variants complex, but in-field samples revealed a non-hydric soil.

### **Summary**

On behalf of Scenic Hill Solar, PMI requests a USACE concurrence letter to confirm the locations of jurisdictional features within the site. Scenic Hill Solar plans to avoid these jurisdictional features during construction and use best management practices when working around them. Jurisdictional features will require a USACE permit if modified during construction. If additional information is required, please do not hesitate to contact me, at [cvickers@pmico.com](mailto:cvickers@pmico.com) or 501-943-1029, or John Metrailler, at [jmetrailler@pmico.com](mailto:jmetrailler@pmico.com) or 501-221-7122.

Sincerely,

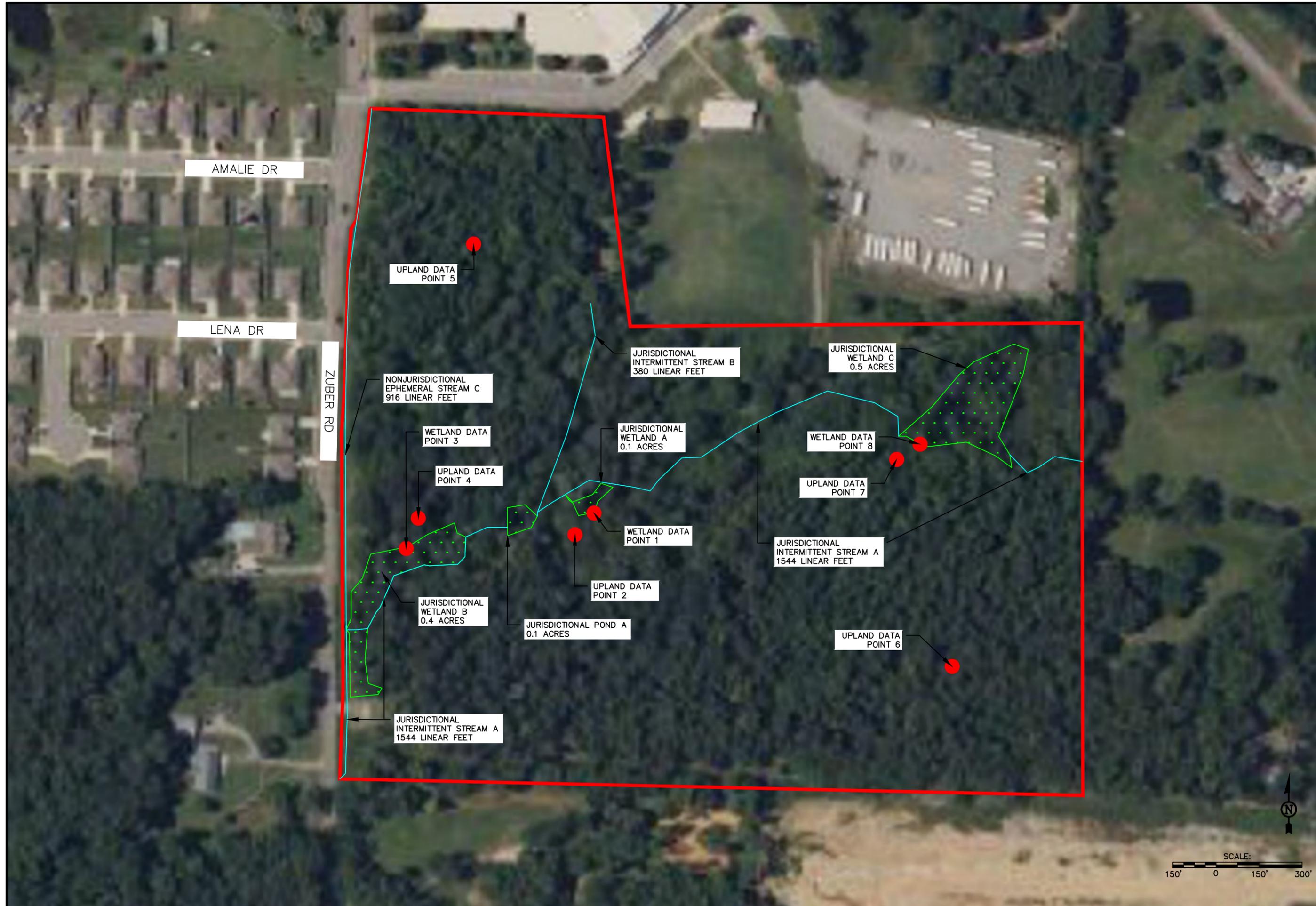
**PMI**

*Canyon Vickers*

Canyon Vickers  
Staff Scientist

## Appendix A

### Site Maps



**CIVIL ENGINEERING AND ENVIRONMENTAL SERVICES**  
 3612 SOUTH SHACKLEFORD RD  
 LITTLE ROCK, ARKANSAS 72205  
 PH: (501) 221-7122 FX: (501) 221-7775

DESIGNED BY: CWV DATE: JULY 15, 2024  
 DRAWN BY: CWV SCALE: 1" = 150'  
 CHECKED BY: CWV

FILE: N:\PROJECTS\2024\KT247212\PROJECT DOCUMENTS (REPORTS-LETTERS-DRAFTS TO CLIENTS)\USACE\DRAWING\KT247212\_BRYANT\_USACE.DWG

**REVISIONS:**

NO.	DATE	DESCRIPTION	BY:

**SHEET TITLE:** AERIAL IMAGERY WITH JURISDICTIONAL FEATURES  
**PROJECT TITLE:** BRYANT USACE SCENIC HILL SOLAR BRYANT, ARKANSAS

**JOB NUMBER:** KT247212  
**SHEET NUMBER:** 1





APPROXIMATE  
PROPERTY  
BOUNDARY

PUBHh

PUBHh

		<b>CIVIL ENGINEERING AND ENVIRONMENTAL SERVICES</b> 3612 SOUTH SHACKLEFORD RD LITTLE ROCK, ARKANSAS 72205 PH: (501) 221-7122 FX: (501) 221-7775		DESIGNED BY: CWV DRAWN BY: CWV CHECKED BY: CWV		DATE: JULY 11, 2024 SCALE: N.T.S.	
JOB NUMBER: <b>KT247212</b>		SHEET NUMBER: <b>2</b>		REVISIONS:		SHEET TITLE: <b>USGS NATIONAL WETLANDS INVENTORY</b>	
PROJECT TITLE: <b>BRYANT USACE          SCENIC HILL SOLAR          BRYANT, ARKANSAS</b>		NO. DATE DESCRIPTION BY:		NO. DATE DESCRIPTION BY:		NO. DATE DESCRIPTION BY:	
FILE: N:\PROJECTS\2024\KT247212\PROJECT DOCUMENTS (REPORTS-LETTERS-DRAFTS TO CLIENTS)\USACE\DRAWINGS\KT247212_BRYANT_USACE.DWG							



### MAP LEGEND

**Area of Interest (AOI)**  
 □ Area of Interest (AOI)

**Soils**  
**Soil Rating Polygons**  
 ■ Hydric (100%)  
 ■ Hydric (66 to 99%)  
 ■ Hydric (33 to 65%)  
 ■ Hydric (1 to 32%)  
 ■ Not Hydric (0%)  
 □ Not rated or not available

**Soil Rating Lines**  
 — Hydric (100%)  
 — Hydric (66 to 99%)  
 — Hydric (33 to 65%)  
 — Hydric (1 to 32%)  
 — Not Hydric (0%)  
 - - Not rated or not available

**Soil Rating Points**  
 ■ Hydric (100%)  
 ■ Hydric (66 to 99%)  
 ■ Hydric (33 to 65%)  
 ■ Hydric (1 to 32%)  
 ■ Not Hydric (0%)  
 □ Not rated or not available

**Water Features**  
 — Streams and Canals

**Transportation**  
 — Rails  
 — Interstate Highways  
 — US Routes  
 — Major Roads  
 — Local Roads

**Background**  
 ■ Aerial Photography

Soil Map may not be valid at this scale.

## Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
8	Caddo-Messer variants complex	60	21.0	75.5%
9	Camasaw-Townley association, undulating	0	6.8	24.5%
<b>Totals for Area of Interest</b>			<b>27.7</b>	<b>100.0%</b>

USDA SOILS MAP

BRYANT USACE  
SCENIC HILL SOLAR  
BRYANT, ARKANSAS

SHEET TITLE:

REVISIONS:

NO. DATE DESCRIPTION BY:

DESIGNED BY: CWV DATE: JULY 11, 2024  
 DRAWN BY: CWV SCALE: N.T.S.  
 CHECKED BY: CWV

CIVIL ENGINEERING AND ENVIRONMENTAL SERVICES  
 3612 SOUTH SHACKLEFORD RD  
 LITTLE ROCK, ARKANSAS 72205  
 PH: (501) 221-7122 FX: (501) 221-7775

JOB NUMBER:  
KT247212

SHEET NUMBER:  
3

FILE: N:\PROJECTS\2024\KT247212\PROJECT DOCUMENTS (REPORTS-LETTERS-DRAFTS TO CLIENTS)\USACE\DRAWING\KT247212\_BRYANT\_USACE.DWG

# Appendix B

## Data Points

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Scenic Hill Solar USACE / Bryant City/County: Bryant / Saline Sampling Date: 12 Jul, 2024  
 Applicant/Owner: Scenic Hill Solar State: Arkansas Sampling Point: DP-1  
 Investigator(s): Canyon Vickers Section, Township, Range: S7 T1S R14W  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 3-8  
 Subregion (LRR or MLRA): LRR N Lat: 34°39'7.86"N Long: 92°32'46.53"W Datum: WGS 84  
 Soil Map Unit Name: Caddo-Messer variants complex NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input checked="" type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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

Sampling Point: DP-1

	Absolute % Cover	Dominant Species?	Indicator Status		
<b>Tree Stratum</b> (Plot size: <u>10' x 10'</u> )					
1. <u>Quercus falcata</u>	<u>30</u>	<u>Yes</u>	<u>FACU</u>	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.67%</u> (A/B)	
2. <u>Acer negundo</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>		
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
	<u>60</u> = Total Cover				
50% of total cover: <u>30</u>		20% of total cover: <u>12</u>		<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = <u>0</u> FACW species _____ x 2 = <u>0</u> FAC species <u>40</u> x 3 = <u>120</u> FACU species <u>30</u> x 4 = <u>120</u> UPL species _____ x 5 = <u>0</u> Column Totals: <u>70</u> (A) <u>240</u> (B)  Prevalence Index = B/A = <u>3.4</u>	
<b>Sapling/Shrub Stratum</b> (Plot size: _____)					
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
	_____ = Total Cover				
50% of total cover: <u>0</u>		20% of total cover: <u>0</u>			
<b>Herb Stratum</b> (Plot size: <u>10'x10'</u> )					
1. <u>Elephantopus nudatus</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
	<u>10</u> = Total Cover				
50% of total cover: <u>5</u>		20% of total cover: <u>2</u>			
<b>Woody Vine Stratum</b> (Plot size: _____)					
1. _____				<b>Definitions of Four Vegetation Strata:</b>  <b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vine</b> – All woody vines greater than 3.28 ft in height.	
2. _____					
3. _____					
4. _____					
5. _____					
	_____ = Total Cover				
50% of total cover: <u>0</u>		20% of total cover: <u>0</u>			
Remarks: (Include photo numbers here or on a separate sheet.)				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

**SOIL**

Sampling Point: DP-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	100					Silt Loam	
3-12	10YR 4/3	100					Silt Loam	
12-16	10YR 5/3	95	10YR 5/6	5	D	M	Silt Loam	

<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:</b>		<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> 2 cm Muck (A10) (MLRA 147)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147, 148)	<input type="checkbox"/> Coast Prairie Redox (A16)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148)	<input type="checkbox"/> (MLRA 147, 148)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Piedmont Floodplain Soils (F19)	
<input type="checkbox"/> Stratified Layers (A5)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> (MLRA 136, 147)	
<input type="checkbox"/> 2 cm Muck (A10) (LRR N)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)		
<input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136)		
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122)		
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148)		
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b> Type: <u>roots</u> Depth (inches): <u>16</u>	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Scenic Hill Solar USACE / Bryant City/County: Bryant / Saline Sampling Date: 12 Jul, 2024  
 Applicant/Owner: Scenic Hill Solar State: Arkansas Sampling Point: DP-2  
 Investigator(s): Canyon Vickers Section, Township, Range: S7 T1S R14W  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 3-8  
 Subregion (LRR or MLRA): LRR N Lat: 34°39'7.38"N Long: 92°32'47.22"W Datum: WGS 84  
 Soil Map Unit Name: Caddo-Messer variants complex NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

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

Sampling Point: DP-2

	Absolute % Cover	Dominant Species?	Indicator Status		
<b>Tree Stratum</b> (Plot size: <u>10' x 10'</u> )					
1. <u>Quercus falcata</u>	30	Yes	FACU	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.67%</u> (A/B)	
2. <u>Acer negundo</u>	20	Yes	FAC		
3. <u>Ulmus americana</u>	20	Yes	FACW		
4. _____					
5. _____					
6. _____					
7. _____					
_____ = Total Cover 50% of total cover: <u>35</u> 20% of total cover: <u>14</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: _____    Multiply by: OBL species _____ x 1 = <u>0</u> FACW species <u>20</u> x 2 = <u>40</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>30</u> x 4 = <u>120</u> UPL species _____ x 5 = <u>0</u> Column Totals: <u>70</u> (A) <u>220</u> (B)  Prevalence Index = B/A = <u>3.1</u>	
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )					
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
_____ = Total Cover 50% of total cover: <u>0</u> 20% of total cover: <u>0</u>				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
<b>Herb Stratum</b> (Plot size: _____ )					
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
_____ = Total Cover 50% of total cover: <u>0</u> 20% of total cover: <u>0</u>				<b>Definitions of Four Vegetation Strata:</b>  <b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vine</b> – All woody vines greater than 3.28 ft in height.	
<b>Woody Vine Stratum</b> (Plot size: _____ )					
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover 50% of total cover: <u>0</u> 20% of total cover: <u>0</u>				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: (Include photo numbers here or on a separate sheet.)					

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	100					Silt Loam	
3-18	10YR 5/2	50	10YR 5/3	50	D	M	Silt Loam	

<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:</b>		<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> 2 cm Muck (A10) (MLRA 147)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147, 148)	<input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147, 148)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Stratified Layers (A5)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2 cm Muck (A10) (LRR N)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148)	
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
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Remarks:

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Scenic Hill Solar USACE / Bryant City/County: Bryant / Saline Sampling Date: 12 Jul, 2024  
 Applicant/Owner: Scenic Hill Solar State: Arkansas Sampling Point: DP-3  
 Investigator(s): Canyon Vickers Section, Township, Range: S7 T1S R14W  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 3-8  
 Subregion (LRR or MLRA): LRR N Lat: 34°39'7.10"N Long: 92°32'51.02"W Datum: WGS 84  
 Soil Map Unit Name: Caddo-Messer variants complex NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input checked="" type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/>	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0-1</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u>	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

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

Sampling Point: DP-3

	Absolute % Cover	Dominant Species?	Indicator Status																																																	
<b>Tree Stratum</b> (Plot size: <u>10' x 10'</u> )																																																				
1. <u>Quercus falcata</u>	<u>10</u>	Yes	FACU	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)  Total Number of Dominant Species Across All Strata: <u>5</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80%</u> (A/B)																																																
2. <u>Acer negundo</u>	<u>20</u>	Yes	FAC																																																	
3. <u>Ulmus americana</u>	<u>20</u>	Yes	FACW																																																	
4. _____																																																				
5. _____																																																				
6. _____																																																				
7. _____																																																				
	<u>50</u> = Total Cover																																																			
50% of total cover: <u>25</u>		20% of total cover: <u>10</u>		<b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:right">Total % Cover of:</td> <td style="text-align:center"><u>20</u></td> <td style="text-align:right">Multiply by:</td> <td style="text-align:center"><u>20</u></td> <td style="text-align:center">x 1 =</td> <td style="text-align:center"><u>20</u></td> </tr> <tr> <td>OBL species</td> <td style="text-align:center"><u>20</u></td> <td></td> <td style="text-align:center"><u>20</u></td> <td style="text-align:center">x 2 =</td> <td style="text-align:center"><u>80</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align:center"><u>40</u></td> <td></td> <td style="text-align:center"><u>60</u></td> <td style="text-align:center">x 3 =</td> <td style="text-align:center"><u>60</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align:center"><u>20</u></td> <td></td> <td style="text-align:center"><u>40</u></td> <td style="text-align:center">x 4 =</td> <td style="text-align:center"><u>40</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align:center"><u>10</u></td> <td></td> <td style="text-align:center"><u>0</u></td> <td style="text-align:center">x 5 =</td> <td style="text-align:center"><u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align:center"><u>          </u></td> <td></td> <td style="text-align:center"><u>          </u></td> <td></td> <td style="text-align:center"><u>          </u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align:center"><u>90</u></td> <td style="text-align:center">(A)</td> <td style="text-align:center"><u>200</u></td> <td style="text-align:center">(B)</td> <td style="text-align:center"><u>          </u></td> </tr> <tr> <td colspan="6" style="text-align:center">Prevalence Index = B/A = <u>2.2</u></td> </tr> </table>	Total % Cover of:	<u>20</u>	Multiply by:	<u>20</u>	x 1 =	<u>20</u>	OBL species	<u>20</u>		<u>20</u>	x 2 =	<u>80</u>	FACW species	<u>40</u>		<u>60</u>	x 3 =	<u>60</u>	FAC species	<u>20</u>		<u>40</u>	x 4 =	<u>40</u>	FACU species	<u>10</u>		<u>0</u>	x 5 =	<u>0</u>	UPL species	<u>          </u>		<u>          </u>		<u>          </u>	Column Totals:	<u>90</u>	(A)	<u>200</u>	(B)	<u>          </u>	Prevalence Index = B/A = <u>2.2</u>					
Total % Cover of:	<u>20</u>	Multiply by:	<u>20</u>		x 1 =	<u>20</u>																																														
OBL species	<u>20</u>		<u>20</u>		x 2 =	<u>80</u>																																														
FACW species	<u>40</u>		<u>60</u>		x 3 =	<u>60</u>																																														
FAC species	<u>20</u>		<u>40</u>		x 4 =	<u>40</u>																																														
FACU species	<u>10</u>		<u>0</u>		x 5 =	<u>0</u>																																														
UPL species	<u>          </u>		<u>          </u>			<u>          </u>																																														
Column Totals:	<u>90</u>	(A)	<u>200</u>		(B)	<u>          </u>																																														
Prevalence Index = B/A = <u>2.2</u>																																																				
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )																																																				
1. _____				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																																																
2. _____																																																				
3. _____																																																				
4. _____																																																				
5. _____																																																				
6. _____																																																				
7. _____																																																				
8. _____																																																				
9. _____																																																				
	<u>          </u> = Total Cover																																																			
50% of total cover: <u>0</u>		20% of total cover: <u>0</u>																																																		
<b>Herb Stratum</b> (Plot size: <u>10'x10'</u> )																																																				
1. <u>Alternanthera philoxeroides</u>	<u>20</u>	Yes	OBL	<b>Definitions of Four Vegetation Strata:</b>  <b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vine</b> – All woody vines greater than 3.28 ft in height.   <b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																																
2. <u>Ludwigia alternifolia</u>	<u>20</u>	Yes	FACW																																																	
3. _____																																																				
4. _____																																																				
5. _____																																																				
6. _____																																																				
7. _____																																																				
8. _____																																																				
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10. _____																																																				
11. _____																																																				
	<u>40</u> = Total Cover																																																			
50% of total cover: <u>20</u>		20% of total cover: <u>8</u>																																																		
<b>Woody Vine Stratum</b> (Plot size: _____ )																																																				
1. _____																																																				
2. _____																																																				
3. _____																																																				
4. _____																																																				
5. _____																																																				
	<u>          </u> = Total Cover																																																			
50% of total cover: <u>0</u>		20% of total cover: <u>0</u>																																																		
Remarks: (Include photo numbers here or on a separate sheet.)																																																				



## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Scenic Hill Solar USACE / Bryant City/County: Bryant / Saline Sampling Date: 12 Jul, 2024  
 Applicant/Owner: Scenic Hill Solar State: Arkansas Sampling Point: DP-4  
 Investigator(s): Canyon Vickers Section, Township, Range: S7 T1S R14W  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 3-8  
 Subregion (LRR or MLRA): LRR N Lat: 34°39'7.69"N Long: 92°32'50.69"W Datum: WGS 84  
 Soil Map Unit Name: Caddo-Messer variants complex NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

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

Sampling Point: DP-4

	Absolute % Cover	Dominant Species?	Indicator Status																																					
<b>Tree Stratum</b> (Plot size: <u>10' x 10'</u> )																																								
1. <u>Quercus falcata</u>	10	Yes	FACU	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>4</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25%</u> (A/B)																																				
2. <u>Acer negundo</u>	10	Yes	FAC																																					
3. <u>Carya ovata</u>	20	Yes	FACU																																					
4. _____																																								
5. _____																																								
6. _____																																								
7. _____																																								
_____																																								
$\frac{40}{100} = \text{Total Cover}$ 50% of total cover: <u>20</u> 20% of total cover: <u>8</u>				<b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:right;">Total % Cover of:</td> <td style="text-align:center;">_____</td> <td style="text-align:right;">Multiply by:</td> <td style="text-align:center;">_____</td> </tr> <tr> <td>OBL species</td> <td style="text-align:center;">_____</td> <td>x 1 =</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align:center;">_____</td> <td>x 2 =</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align:center;"><u>10</u></td> <td>x 3 =</td> <td style="text-align:center;"><u>30</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align:center;"><u>50</u></td> <td>x 4 =</td> <td style="text-align:center;"><u>200</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align:center;">_____</td> <td>x 5 =</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align:center;"><u>60</u></td> <td>(A)</td> <td style="text-align:center;"><u>230</u></td> </tr> <tr> <td colspan="3"></td> <td style="text-align:center;">(B)</td> </tr> <tr> <td colspan="4" style="text-align:right;">Prevalence Index = B/A = <u>3.8</u></td> </tr> </table>	Total % Cover of:	_____	Multiply by:	_____	OBL species	_____	x 1 =	<u>0</u>	FACW species	_____	x 2 =	<u>0</u>	FAC species	<u>10</u>	x 3 =	<u>30</u>	FACU species	<u>50</u>	x 4 =	<u>200</u>	UPL species	_____	x 5 =	<u>0</u>	Column Totals:	<u>60</u>	(A)	<u>230</u>				(B)	Prevalence Index = B/A = <u>3.8</u>			
Total % Cover of:	_____	Multiply by:	_____																																					
OBL species	_____	x 1 =	<u>0</u>																																					
FACW species	_____	x 2 =	<u>0</u>																																					
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UPL species	_____	x 5 =	<u>0</u>																																					
Column Totals:	<u>60</u>	(A)	<u>230</u>																																					
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Prevalence Index = B/A = <u>3.8</u>																																								
<b>Sapling/Shrub Stratum</b> (Plot size: _____)																																								
1. _____				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is $\leq 3.0$ <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																																				
2. _____																																								
3. _____																																								
4. _____																																								
5. _____																																								
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9. _____																																								
_____																																								
$\text{_____} = \text{Total Cover}$ 50% of total cover: <u>0</u> 20% of total cover: <u>0</u>				<b>Definitions of Four Vegetation Strata:</b>  <b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vine</b> – All woody vines greater than 3.28 ft in height.																																				
<b>Herb Stratum</b> (Plot size: <u>10'x10'</u> )																																								
1. <u>Ambrosia artemisiifolia</u>	20	Yes	FACU		<b>Hydrophytic Vegetation Present?</b> Yes _____    No <input checked="" type="checkbox"/>																																			
2. _____																																								
3. _____																																								
4. _____																																								
5. _____																																								
6. _____																																								
7. _____																																								
8. _____																																								
9. _____																																								
10. _____																																								
11. _____																																								
$\frac{20}{100} = \text{Total Cover}$ 50% of total cover: <u>10</u> 20% of total cover: <u>4</u>																																								
<b>Woody Vine Stratum</b> (Plot size: _____)																																								
1. _____																																								
2. _____																																								
3. _____																																								
4. _____																																								
5. _____																																								
$\text{_____} = \text{Total Cover}$ 50% of total cover: <u>0</u> 20% of total cover: <u>0</u>																																								
Remarks: (Include photo numbers here or on a separate sheet.)																																								



## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Scenic Hill Solar USACE / Bryant City/County: Bryant / Saline Sampling Date: 12 Jul, 2024  
 Applicant/Owner: Scenic Hill Solar State: Arkansas Sampling Point: DP-5  
 Investigator(s): Canyon Vickers Section, Township, Range: S7 T1S R14W  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 3-8  
 Subregion (LRR or MLRA): LRR N Lat: 34°39'12.61"N Long: 92°32'49.58"W Datum: WGS 84  
 Soil Map Unit Name: Caddo-Messer variants complex NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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

Sampling Point: DP-5

	Absolute % Cover	Dominant Species?	Indicator Status		
<b>Tree Stratum</b> (Plot size: <u>10' x 10'</u> )					
1. <u>Platanus occidentalis</u>	30	Yes	FACW	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.67%</u> (A/B)	
2. <u>Pinus taeda</u>	30	Yes	FAC		
3. <u>Carya ovata</u>	30	Yes	FACU		
4. _____					
5. _____					
6. _____					
7. _____					
_____ = Total Cover 50% of total cover: <u>45</u> 20% of total cover: <u>18</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: _____    Multiply by: OBL species _____ x 1 = <u>0</u> FACW species <u>30</u> x 2 = <u>60</u> FAC species <u>30</u> x 3 = <u>90</u> FACU species <u>30</u> x 4 = <u>120</u> UPL species _____ x 5 = <u>0</u> Column Totals: <u>90</u> (A) <u>270</u> (B)  Prevalence Index = B/A = <u>3</u>	
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )					
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
_____ = Total Cover 50% of total cover: <u>0</u> 20% of total cover: <u>0</u>				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
<b>Herb Stratum</b> (Plot size: _____ )					
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
_____ = Total Cover 50% of total cover: <u>0</u> 20% of total cover: <u>0</u>				<b>Definitions of Four Vegetation Strata:</b>  <b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vine</b> – All woody vines greater than 3.28 ft in height.	
<b>Woody Vine Stratum</b> (Plot size: _____ )					
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover 50% of total cover: <u>0</u> 20% of total cover: <u>0</u>				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: (Include photo numbers here or on a separate sheet.)					

**SOIL**

Sampling Point: DP-5

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 5/2	100					Silt Loam	
5-18	10YR 5/3	80	10YR 5/6	20	D	M	Silt Loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10) **(LRR N)**
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)

- Dark Surface (S7)
- Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- Thin Dark Surface (S9) **(MLRA 147, 148)**
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- Umbric Surface (F13) **(MLRA 136, 122)**
- Piedmont Floodplain Soils (F19) **(MLRA 148)**
- Red Parent Material (F21) **(MLRA 127, 147)**

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) **(MLRA 147)**
- Coast Prairie Redox (A16) **(MLRA 147, 148)**
- Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Scenic Hill Solar USACE / Bryant City/County: Bryant / Saline Sampling Date: 12 Jul, 2024  
 Applicant/Owner: Scenic Hill Solar State: Arkansas Sampling Point: DP-6  
 Investigator(s): Canyon Vickers Section, Township, Range: S7 T1S R14W  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 3-8  
 Subregion (LRR or MLRA): LRR N Lat: 34°39'5.04"N Long: 92°32'39.89"W Datum: WGS 84  
 Soil Map Unit Name: Carnasaw-Townley Association, undulating NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

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

Sampling Point: DP-6

	Absolute % Cover	Dominant Species?	Indicator Status																																	
<b>Tree Stratum</b> (Plot size: <u>10' x 10'</u> )																																				
1. <u>Pinus taeda</u>	<u>40</u>	<u>Yes</u>	<u>FAC</u>	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																																
2. _____																																				
3. _____																																				
4. _____																																				
5. _____																																				
6. _____																																				
7. _____																																				
_____ = Total Cover 50% of total cover: <u>20</u> 20% of total cover: <u>8</u>																																				
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )																																				
1. _____				<b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:right;">Total % Cover of:</td> <td style="text-align:center;">_____</td> <td style="text-align:right;">Multiply by:</td> <td style="text-align:center;">_____</td> </tr> <tr> <td>OBL species</td> <td style="text-align:center;">_____</td> <td>x 1 =</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align:center;"><u>10</u></td> <td>x 2 =</td> <td style="text-align:center;"><u>20</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align:center;"><u>40</u></td> <td>x 3 =</td> <td style="text-align:center;"><u>120</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align:center;">_____</td> <td>x 4 =</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align:center;">_____</td> <td>x 5 =</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align:center;"><u>50</u></td> <td>(A)</td> <td style="text-align:center;"><u>140</u></td> (B)                 </tr> <tr> <td colspan="4" style="text-align:right;">Prevalence Index = B/A = <u>2.8</u></td> </tr> </table>	Total % Cover of:	_____	Multiply by:	_____	OBL species	_____	x 1 =	<u>0</u>	FACW species	<u>10</u>	x 2 =	<u>20</u>	FAC species	<u>40</u>	x 3 =	<u>120</u>	FACU species	_____	x 4 =	<u>0</u>	UPL species	_____	x 5 =	<u>0</u>	Column Totals:	<u>50</u>	(A)	<u>140</u>	Prevalence Index = B/A = <u>2.8</u>			
Total % Cover of:	_____	Multiply by:	_____																																	
OBL species	_____	x 1 =	<u>0</u>																																	
FACW species	<u>10</u>	x 2 =	<u>20</u>																																	
FAC species	<u>40</u>	x 3 =	<u>120</u>																																	
FACU species	_____	x 4 =	<u>0</u>																																	
UPL species	_____	x 5 =	<u>0</u>																																	
Column Totals:	<u>50</u>	(A)	<u>140</u>																																	
Prevalence Index = B/A = <u>2.8</u>																																				
2. _____																																				
3. _____																																				
4. _____																																				
5. _____																																				
6. _____																																				
7. _____																																				
8. _____																																				
9. _____																																				
_____ = Total Cover 50% of total cover: <u>0</u> 20% of total cover: <u>0</u>																																				
<b>Herb Stratum</b> (Plot size: <u>10'x10'</u> )																																				
1. <u>Coptis trifolia</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																																
2. _____																																				
3. _____																																				
4. _____																																				
5. _____																																				
6. _____																																				
7. _____																																				
8. _____																																				
9. _____																																				
10. _____																																				
11. _____																																				
_____ = Total Cover 50% of total cover: <u>5</u> 20% of total cover: <u>2</u>																																				
<b>Woody Vine Stratum</b> (Plot size: _____ )																																				
1. _____				<b>Definitions of Four Vegetation Strata:</b>  <b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vine</b> – All woody vines greater than 3.28 ft in height.																																
2. _____																																				
3. _____																																				
4. _____																																				
5. _____																																				
_____ = Total Cover 50% of total cover: <u>0</u> 20% of total cover: <u>0</u>																																				
				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____																																
Remarks: (Include photo numbers here or on a separate sheet.)																																				

**SOIL**

Sampling Point: DP-6

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/4	100					Silt Loam	
4-18	10YR 5/4	100					Silt Loam	

<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:</b>		<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> 2 cm Muck (A10) (MLRA 147)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147, 148)	<input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147, 148)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> 2 cm Muck (A10) (LRR N)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)		
<input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136)		
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122)		
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148)		
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	<b>Hydric Soil Present?</b> Yes _____    No <input checked="" type="checkbox"/>
---	---

Remarks:

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Scenic Hill Solar USACE / Bryant City/County: Bryant / Saline Sampling Date: 15 Jul, 2024  
 Applicant/Owner: Scenic Hill Solar State: Arkansas Sampling Point: DP-7  
 Investigator(s): Canyon Vickers Section, Township, Range: S7 T1S R14W  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 3-8  
 Subregion (LRR or MLRA): LRR N Lat: 34°39'7.92"N Long: 92°32'40.96"W Datum: WGS 84  
 Soil Map Unit Name: Caddo-Messer variants complex NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

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

Sampling Point: DP-7

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>10' x 10'</u> )				
1. <u>Quercus falcata</u>	<u>10</u>	Yes	FACU	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>5</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40%</u> (A/B)
2. <u>Quercus phellos</u>	<u>20</u>	Yes	FAC	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>30</u> = Total Cover			
50% of total cover: <u>15</u>		20% of total cover: <u>6</u>		
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )				
1. _____				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = <u>0</u> FACW species <u>20</u> x 2 = <u>40</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>20</u> x 4 = <u>80</u> UPL species <u>10</u> x 5 = <u>50</u> Column Totals: <u>70</u> (A) <u>230</u> (B)  Prevalence Index = B/A = <u>3.3</u>
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
	_____ = Total Cover			
50% of total cover: <u>0</u>		20% of total cover: <u>0</u>		
<b>Herb Stratum</b> (Plot size: <u>10'x10'</u> )				
1. <u>Ludwigia alternifolia</u>	<u>20</u>	Yes	FACW	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Verbesina virginica</u>	<u>10</u>	Yes	UPL	
3. <u>Senecio hieraciifolius</u>	<u>10</u>	Yes	FACU	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
	<u>40</u> = Total Cover			
50% of total cover: <u>20</u>		20% of total cover: <u>8</u>		
<b>Woody Vine Stratum</b> (Plot size: _____ )				
1. _____				<b>Definitions of Four Vegetation Strata:</b>  <b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
2. _____				
3. _____				
4. _____				
5. _____				
	_____ = Total Cover			
50% of total cover: <u>0</u>		20% of total cover: <u>0</u>		
Remarks: (Include photo numbers here or on a separate sheet.)				
				<b>Hydrophytic Vegetation Present?</b> Yes _____ No <input checked="" type="checkbox"/>

**SOIL**

Sampling Point: DP-7

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 4/4	100					Silt Loam	
4-10	10YR 5/4	100					Silt Loam	
10-18	10YR 5/6	100					Silt Loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> 2 cm Muck (A10) (MLRA 147)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Polyvalue Below Surface (S8) (MLRA 147, 148)	<input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 147, 148)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Thin Dark Surface (S9) (MLRA 147, 148)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 136, 147)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> 2 cm Muck (A10) (LRR N)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)		
<input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR N, MLRA 136)		
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Umbric Surface (F13) (MLRA 136, 122)		
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 148)		
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21) (MLRA 127, 147)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/>
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Remarks:

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Scenic Hill Solar USACE / Bryant City/County: Bryant / Saline Sampling Date: 15 Jul, 2024  
 Applicant/Owner: Scenic Hill Solar State: Arkansas Sampling Point: DP-8  
 Investigator(s): Canyon Vickers Section, Township, Range: S7 T1S R14W  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 3-8  
 Subregion (LRR or MLRA): LRR N Lat: 34°39'8.62"N Long: 92°32'39.89"W Datum: WGS 84  
 Soil Map Unit Name: Caddo-Messer variants complex NWI classification: PUBHh

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
---	--

<b>Field Observations:</b> Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0-3</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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

Sampling Point: DP-8

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum</b> (Plot size: <u>10' x 10'</u> )																				
1. <u>Quercus falcata</u>	30	Yes	FACU	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)  Total Number of Dominant Species Across All Strata: <u>4</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75%</u> (A/B)																
2. <u>Acer negundo</u>	10	Yes	FAC																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	<u>40</u> = Total Cover																			
50% of total cover: <u>20</u>		20% of total cover: <u>8</u>																		
<b>Sapling/Shrub Stratum</b> (Plot size: _____ )																				
1. _____				<b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="text-align:right;">Total % Cover of:</td> <td style="text-align:center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>20</u></td> <td>x 1 = <u>20</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU species <u>30</u></td> <td>x 4 = <u>120</u></td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>70</u> (A)</td> <td><u>190</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = <u>2.7</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>20</u>	x 1 = <u>20</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>10</u>	x 3 = <u>30</u>	FACU species <u>30</u>	x 4 = <u>120</u>	UPL species _____	x 5 = <u>0</u>	Column Totals: <u>70</u> (A)	<u>190</u> (B)	Prevalence Index = B/A = <u>2.7</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>20</u>	x 1 = <u>20</u>																			
FACW species <u>10</u>	x 2 = <u>20</u>																			
FAC species <u>10</u>	x 3 = <u>30</u>																			
FACU species <u>30</u>	x 4 = <u>120</u>																			
UPL species _____	x 5 = <u>0</u>																			
Column Totals: <u>70</u> (A)	<u>190</u> (B)																			
Prevalence Index = B/A = <u>2.7</u>																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
	_____ = Total Cover																			
50% of total cover: <u>0</u>		20% of total cover: <u>0</u>																		
<b>Herb Stratum</b> (Plot size: <u>10'x10'</u> )																				
1. <u>Ampelopsis arborea</u>	10	Yes	FACW	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																
2. <u>Alternanthera philoxeroides</u>	20	Yes	OBL																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
	<u>30</u> = Total Cover																			
50% of total cover: <u>15</u>		20% of total cover: <u>6</u>																		
<b>Woody Vine Stratum</b> (Plot size: _____ )																				
1. _____				<b>Definitions of Four Vegetation Strata:</b>  <b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vine</b> – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
	_____ = Total Cover																			
50% of total cover: <u>0</u>		20% of total cover: <u>0</u>																		
<table style="width:100%; border:none;"> <tr> <td style="width:60%;"></td> <td style="width:40%;"><b>Hydrophytic Vegetation Present?</b></td> </tr> <tr> <td></td> <td style="text-align:right;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> </table>						<b>Hydrophytic Vegetation Present?</b>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												
	<b>Hydrophytic Vegetation Present?</b>																			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																			
Remarks: (Include photo numbers here or on a separate sheet.)																				

**SOIL**

Sampling Point: DP-8

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 4/2	100					Silt Loam	
3-12	10YR 4/3	100					Silt Loam	
12-18	10YR 5/3	95	10YR 5/6	5	D	M	Silt Loam	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10) **(LRR N)**
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)

- Dark Surface (S7)
- Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- Thin Dark Surface (S9) **(MLRA 147, 148)**
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- Umbric Surface (F13) **(MLRA 136, 122)**
- Piedmont Floodplain Soils (F19) **(MLRA 148)**
- Red Parent Material (F21) **(MLRA 127, 147)**

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) **(MLRA 147)**
- Coast Prairie Redox (A16) **(MLRA 147, 148)**
- Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:

Appendix C  
Site Photographs



PHOTOGRAPH 1 — VIEW OF DATA POINT 1 SOIL SAMPLE.



PHOTOGRAPH 2 — VIEW OF DATA POINT 1.



PHOTOGRAPH 3 — VIEW OF DATA POINT 2 SOIL SAMPLE.



PHOTOGRAPH 4 — VIEW OF DATA POINT 2.



PHOTOGRAPH 5 — VIEW OF DATA POINT 3 SOIL SAMPLE.



PHOTOGRAPH 6 — VIEW OF DATA POINT 3.



PHOTOGRAPH 7 — VIEW OF DATA POINT 4 SOIL SAMPLE.



PHOTOGRAPH 8 — VIEW OF DATA POINT 4.



PHOTOGRAPH 9 — VIEW OF DATA POINT 5 SOIL SAMPLE.



PHOTOGRAPH 10 — VIEW OF DATA POINT 5.



PHOTOGRAPH 11 — VIEW OF DATA POINT 6 SOIL SAMPLE.



PHOTOGRAPH 12 — VIEW OF DATA POINT 6.



PHOTOGRAPH 13— VIEW OF DATA POINT 7 SOIL SAMPLE.



PHOTOGRAPH 14 — VIEW OF DATA POINT 7.



PHOTOGRAPH 15 — VIEW OF DATA POINT 8 SOIL SAMPLE.



PHOTOGRAPH 16 — VIEW OF DATA POINT 8.



PHOTOGRAPH 17 — VIEW OF INTERMITTENT STREAM A ENTERING SITE.



PHOTOGRAPH 18 — VIEW OF INTERMITTENT STREAM A.



PHOTOGRAPH 19 — VIEW OF INTERMITTENT STREAM A INTO POND A.



PHOTOGRAPH 20 — VIEW OF INTERMITTENT STREAM A CULVERT LEAVING POND A.



PHOTOGRAPH 21 — VIEW OF INTERMITTENT STREAM B ENTERING SITE.



PHOTOGRAPH 22 — VIEW OF INTERMITTENT STREAM B.



PHOTOGRAPH 23 — VIEW OF EPHEMERAL STREAM C TO INTERMITTENT STREAM A.



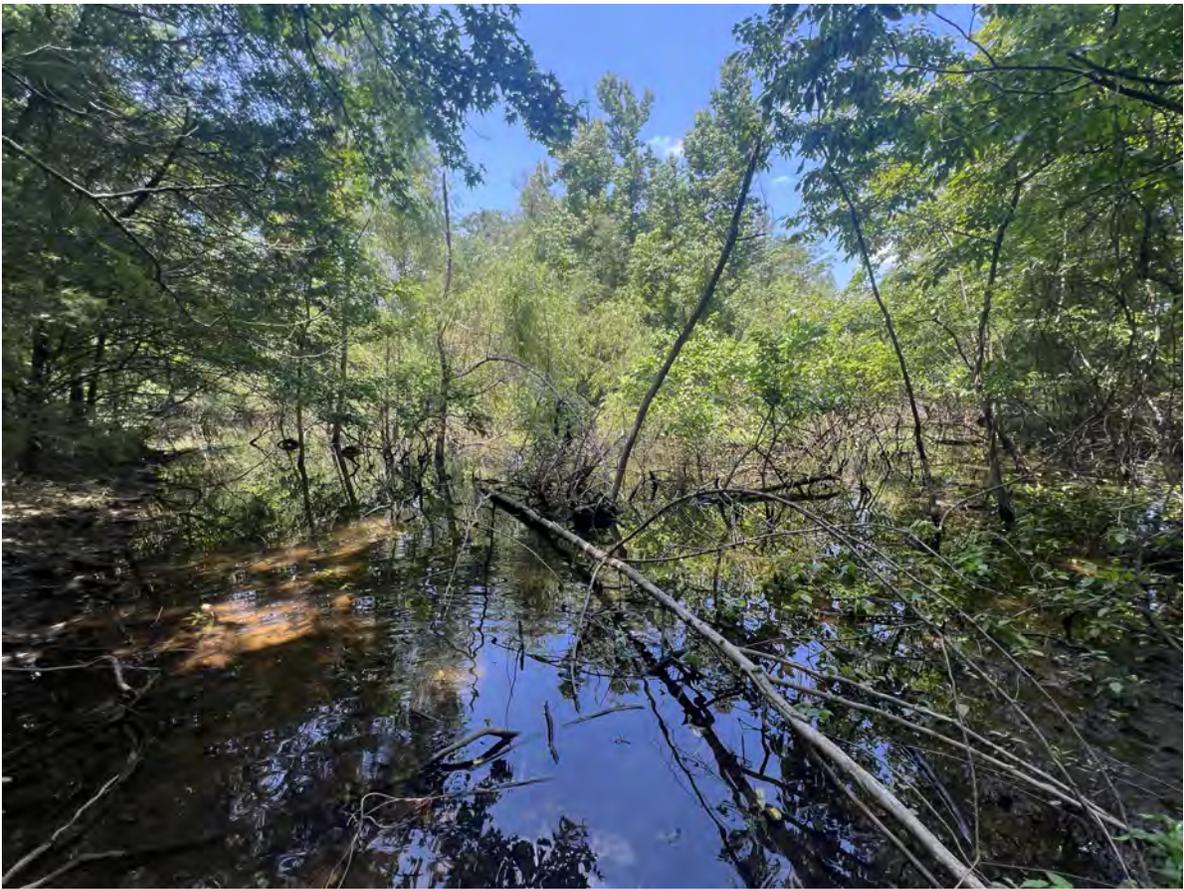
PHOTOGRAPH 24 — VIEW OF INTERMITTENT STREAM A LEAVING SITE.



PHOTOGRAPH 25 — VIEW OF WETLAND A.



PHOTOGRAPH 26 — VIEW OF WETLAND B



PHOTOGRAPH 27 — VIEW OF WETLAND C.



PHOTOGRAPH 28 — VIEW OF POND A.